Experiential Learning

SUPPORTING DOCUMENTS FOR
NAAC SELF STUDY REPORT (SSR)
(2ND CYCLE)
PERIOD: 2018-2023

EVALUATION CRITERIA - 2	Key Indicator 2.3
METRIC 2.3.1	EXPERIENTIAL LEARNING

PREPARED AND SUBMITTED BY
RV COLLEGE OF ENGINEERING,
BENGALURU - 59

Experiential Learning (EL) is a dynamic approach that emphasizes hands-on, real-world experiences to enhance students' understanding and retention of engineering concepts. Unlike traditional lecture-based instruction, experiential learning actively engages students in the learning process through activities such as projects, internships, simulations, and laboratory experiments and many more.

The five major categories in which experiential learning is provided by RVCE are displayed in the following table.

Course Augmented	**Innovation**	**Industry Institution Interaction**	**Liberal Education**	**Co-Curricular**
Seminar	Development of innovative experiments	Industrial visit / in plant training/ internship	Reading a book and presenting	Mini project
Assignment	Design thinking	Industrial tour	Debate	Journal/ conference paper
Seminar Video	Virtual experiments	Expert lecturer/ guest lecturer	Role play	Technical symposium
Develop additional content	Software tools usage	Industrial problem solving	Group discussion	White paper
Researching / Literature Review on the topic	Product development	Survey on topic	Essay/ extended essay	Poster presentation
NPTEL/MOOCS	Open ended experiments	Sectorial studies	Writing a book chapter	Project exhibition
Hand book preparation with standers	Motivating a course	Interviewing experts on topic	Article in news paper / relevant magazines	Brochure / pamphlets
Viva Voce	Ideathon/ hackathons / Makathon	Survey on startup in a course	Visual communication	
	Case study	Professional activities	Peer mentoring / TEDX talk	

The above table experiential learning plays a crucial role in preparing RVCE students for the challenges they will face in their future careers by providing them with the skills, knowledge, and confidence they need to succeed in a rapidly evolving field.

The key principles of experiential learning include:

1. **Active Engagement:** Students are actively involved in the learning process, rather than passive recipients of information. They participate in activities that require problem-solving, critical thinking, and decision-making.
2. **Reflection:** Experiential learning encourages students to reflect on their experiences, both during and after the activity. Reflection helps students make connections between theory and practice, identify areas for improvement, and deepen their understanding of concepts.
3. **Authenticity:** Experiences are designed to mirror real-world engineering challenges as closely as possible. This authenticity helps students develop practical skills that are directly applicable to their future careers, paper publication and patent publications.
4. **Collaboration:** Many experiential learning activities involve collaboration with peers, instructors, industry professionals, or community partners. Working in teams allows students to learn from each other, share diverse perspectives, and develop interpersonal skills.
5. **Feedback:** Constructive feedback on experiential learning. It helps students understand their strengths and weaknesses, refine their skills, and improve their performance over time.

A few departments' Experience Learning approach along with a case study are provided in the following sections.

INFORMATION SCIENCE AND ENGINEERING (ISE)

Preamble of EL:

This report explores the importance and benefits of experiential learning practices in the Department of Information Science and Engineering. It examines various methods and approaches used in experiential learning and highlights their impact on student engagement, skill development, and overall learning outcomes. Additionally, the report discusses the challenges and opportunities associated with implementing experiential learning initiatives and provides recommendations for educators and institutions looking to integrate experiential learning into their curriculum.

Table of Contents:

1. Introduction:

Experiential learning is increasingly vital in modern Information Science and Engineering education due to its hands-on approach, application-oriented focus, and ability to engage and motivate students. It facilitates skill development, including technical proficiency and collaboration, while preparing students for the industry by exposing them to real-world challenges and fostering adaptability to technological changes. Ultimately, experiential learning bridges the gap between theory and practice, producing graduates who are well-equipped to succeed in dynamic and demanding professional environments.

2. Theoretical Framework of Experiential Learning:

Department of Information Science and Engineering has adopted most of the key approaches wildly accepted in the education sector. Two models are Kolb's Experiential Learning Cycle and Dewey's theory of learning by doing (PBL).

Kolb's Experiential Learning Cycle, comprising concrete experience, reflective observation, abstract conceptualization, and active experimentation, offers a structured approach to learning in information science and engineering. by following this cycle, students in information science and engineering education continually learn through experience, reflection, conceptualization, and experimentation, developing practical skills and critical thinking abilities essential for success in the field.

Dewey's theory of learning by doing, often implemented through project-based learning (pbl), is highly relevant to information science and engineering education. the activities consists of active engagement, problem-centered approach, interdisciplinary learning, collaboration and communication, authentic assessment, continuous improvement. overall, dewey's theory of learning by doing, implemented through pbl, offers a dynamic and effective approach to information science and engineering education, promoting active learning, problem-solving skills, interdisciplinary collaboration, and real-world application.

3. Types and Approaches of Experiential Learning

The various types and approaches of experiential learning in the department of Information Science and Engineering include.

1. Online course certification
2. Case Study-based Teaching-Learning
3. Simulations / Experiments / Project Based learning
4. Video based seminar
5. Developing prototype.
6. Paper Publication
7. Internships
8. Activity based test – Script writing, Essay Writing, Role plays. Any other activity that enhances the Communication skills. The students will be assigned with a topic by the faculty handling the batch. The students can either prepare a presentation/write essay/role play etc. for the duration (4-5 minutes per student)

Years wise Broad Topics

2023-24		
Sl.No	**EVEN Semester Topics (EL/PBL)**	**ODD Semester Topics (EL/PBL)**

1	Docker. Git & Kubernetes automation tools exploration, IBM DevOps Certifications- MTech SE&IT 2nd sem	IoT experiments- M.Tech SE&IT 1st sem
2	Introduction Python Programming	Augment Reality and Virtual Reality (Protein-1_ribbon_multicolor)
3	UG even sem not yet started	21CS53- Introduction to DBS 21CS52 – AIML (Applications of AIML in real world)
4	TITLE: Timetable architect EXPERIENTIAL LEARNING EVALUATION RUBRICS: Students will be evaluated for their creativity and practical implementation of the problem. Case study based teaching learning (10), Program specific requirements (10), Video based seminar/presentation/demonstration (10) Designing and Modeling (10) ADDING UPTO 40 MARKS.	Operating System – 3rd sem Mini Project Implementations
5	Programminf in C++ : Bank management system using C++, Hospital Management System using C++, Question Bank Application in C++	Fundamentals of C Programming: Customer relationship management system, E-commerce, IT Infrastructure and Emerging Technologies
2022-23		
1	Coursera Certifications, YouTube content creation-HCI- MTech SE 2nd sem	IoT experiments using ThingsSpeak Cloud, Putty, VNC softwares, YouTube Content creation- MTech SE&IT 1st sem, IoT GreatLearn certifications
2	AIML – 6th semester (Applications of AIML in real world)	Intellectual Property Rights and Entrepreneurship (IPRE Case studies, IEEE PDH Certification, Solving Question Papers)
3	Software Project Management	Data Structures and Applications
4	Programming in Java-18IS49(EL)	
2021-22		
1	Trello tool, project reports -SPM MTech IT 2nd sem	KSCST proposals done- HCI 7th sem UG
2	Computer Networks -18IS52	Intellectual Property Rights and Entrepreneurship (IPRE Case studies, IEEE PDH Certification, Solving Question Papers)
3	Programming in C	Discrete Mathematical Structures – 18CS36 : Theme: Problem Solving

		on Logic, Relations, Functions, Groups and FSMs.
2020-21		
1	Trello tool, project reports, Udemy certifications -SPM MTech IT 2nd sem	RASA APIs exploration, Microservices development-SOA MTech SE 1st sem
2	AI and ML : Project Executed and paper publication	Software Engineering : (i) Projects Implemented (ii) Case Study
3	ODD Semester- Management Information Systems-18G5B10	Even Semester- Web Technology (18IS6D1)
2019-20		
1	Tools exploration, Udemy certifications- HCI MTech SE 2nd sem	Youtube content creation- SOA MTech SE 1st sem
2	ODD Semester – 16IS73-Cryptography and Network Security	Even Semester – 16IS64- Database Management Systems
3	Programming in C : Project Based Learning	Kmap tool, VLAB, Paracache simulator, Project demos- LDCOA UG 3rd sem
2018-19		
1	Model creation, user interface development- HCI MTech SE 2nd sem	Wireshark, NMAP, Seminars & Question bank preparation- ACN MTech IT 1st sem
2		IoT tool kits exploration and experiments- IoT 7th sem Global elective
3	ODD Semester- 16IS7F2-Enterprise Architecture	Even Semester 16IS6C1-Information Security

4. Benefits of Experiential Learning with respect to ISE department:

Experiential learning offers numerous **benefits to students** in the Information Science and Engineering department. the skills developed includes practical skill development, real-world application, critical thinking and problem-solving, collaboration and communication skills, adaptability and resilience, industry readiness, enhanced motivation and engagement, networking opportunities personal and professional growth. overall, experiential learning plays a crucial role in preparing students of information science and engineering for successful careers by equipping them with practical skills, industry experience, critical thinking abilities, and professional competencies.

Educators in the information science and engineering (ISE) department **also benefit significantly** from incorporating experiential learning into their teaching practices. the benefits include enhanced understanding of student needs, enhanced teaching effectiveness, increased student engagement and motivation, opportunities for collaboration and networking, professional growth and development, alignment

with professional goals, contribution to research and innovation, personal fulfillment and satisfaction.

In turn, experiential learning enriches the educational experience in **engineering institutions** by engaging students, improving learning outcomes, preparing them for the workforce, fostering innovation, facilitating collaboration, providing networking opportunities, promoting faculty development, enhancing institutional reputation, and addressing societal needs.

5. Challenges in Implementing Experiential Learning with respect to ISE department:

Implementing experiential learning in Information Science and Engineering (ISE) faces several challenges

- **Resource Constraints:** Experiential learning often requires specialized equipment, software, and facilities, which can be costly to procure and maintain. Limited resources may hinder the implementation of hands-on activities and practical experiences.
- **Infrastructure and Technology Challenges:** Information Science and Engineering fields often rely on advanced technology and infrastructure. Inadequate access to technology may hinder students' ability to engage in experiential learning activities effectively.
- **Curriculum Alignment:** Integrating experiential learning activities seamlessly into the existing curriculum can be challenging. Ensuring that these activities align with the learning objectives and course outcomes while maintaining academic rigor is crucial. It requires careful planning and coordination among faculty members.
- **Time Constraints:** Time constraints within the academic calendar can pose challenges. Experiential learning activities may require more time than traditional classroom lectures or assignments. Finding ways to incorporate these activities without compromising other essential aspects of the curriculum can be difficult.
- **Assessment Methods:** Assessing experiential learning can be more complex than assessing traditional forms of learning. Developing appropriate assessment methods to evaluate students' performance and learning outcomes from experiential activities requires creativity and innovation.
- **Student Engagement and Motivation:** Keeping students engaged and motivated throughout experiential learning activities is essential for their success. However, some students may resist or struggle with hands-on learning approaches, especially if they are accustomed to more traditional teaching methods.
- **Diversity of Student Backgrounds:** Students in Information Science and Engineering programs come from diverse backgrounds with varying levels of prior knowledge and experience. Designing experiential learning activities that cater to the needs of all students while providing appropriate challenges can be complex.
- **Logistical Challenges:** Coordinating logistics for experiential learning activities, such as securing off-campus locations, arranging transportation, and managing

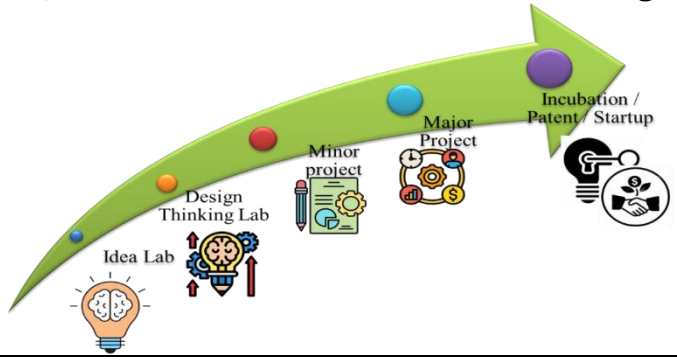
schedules, can be logistically challenging. It requires effective communication and collaboration among faculty, students, and external partners.

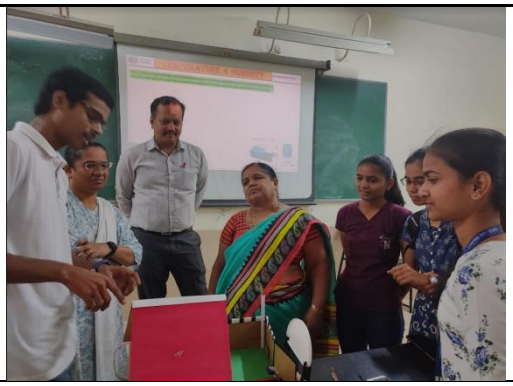
- **Institutional Support and Recognition:** Securing institutional support and recognition for experiential learning initiatives is crucial for their sustainability and success. This may involve advocating for resources, fostering partnerships with industry or community organizations, and promoting the value of experiential learning within the institution.
- **Faculty Development:** Faculty members may require training and support to effectively design, implement, and assess experiential learning activities. Providing professional development opportunities and resources for faculty can help address this challenge.
- **Industry Partnerships and Collaboration**: Establishing and maintaining partnerships with industry partners for internships, projects, or guest lectures can be challenging. Identifying suitable collaborators, negotiating agreements, and managing expectations require time and effort.
- **Scaling and Sustainability:** Scaling experiential learning initiatives to accommodate larger cohorts of students and ensuring their sustainability over time present significant challenges. Adequate support, funding, and institutional commitment are necessary for long-term success.

6. Case Studies and Examples:

This section presents real-world case studies and examples of successful experiential learning programs. It highlights innovative approaches and best practices used by institutions to integrate experiential learning into their curriculum and shares insights gained from these experiences.

Each semester put two best case studies (i.e. any one EL/PBL)

2023-24
Case Study – 1 (Complete Process report with Evaluation rubrics) **Case study, presentation, demonstration**: Fundamentals of C Programming 



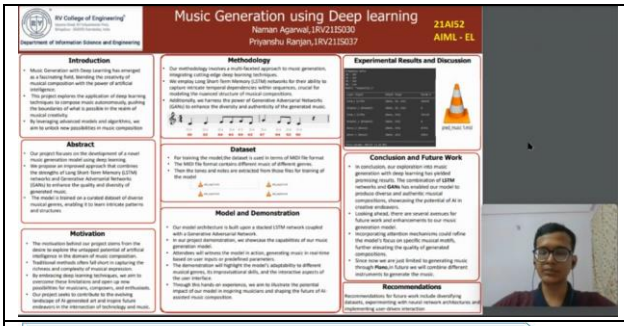
Rubrics : Case study based teaching learning (10), Program specific requirements (10), Video based seminar/presentation/demonstration (10)

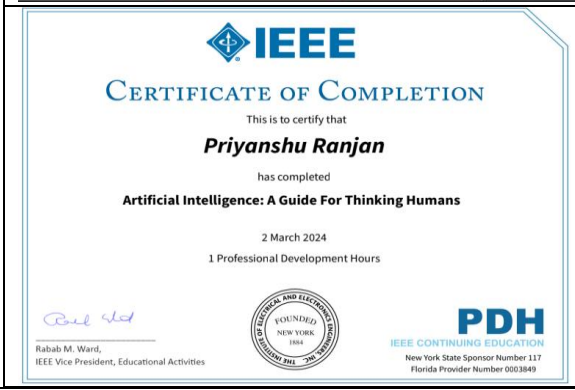
Case Study – 2 (Complete Process report with Evaluation rubrics)
EL for Artificial Intelligence and Machine Learning (21AI52) Course:

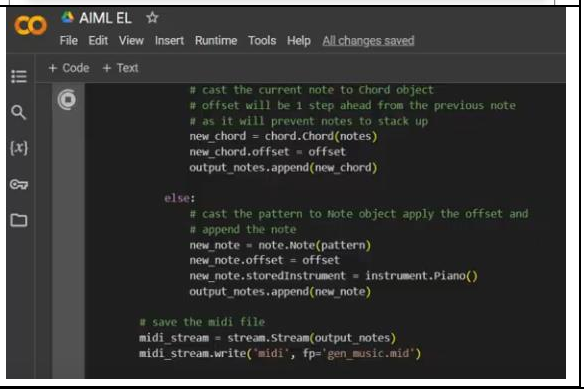
1) AIML Minor Project.
2) Poster of AIML Minor Project.
3) Video based presentation and demonstration of AIML Minor Project
4) IEEE Blended learning Course (BLP) Certificate on " **IEEE Awareness Module on AI Ethics**"
5) **IEEE PDH** Certificates of all team members : "**Artificial Intelligence: A Guide for Thinking Humans**"

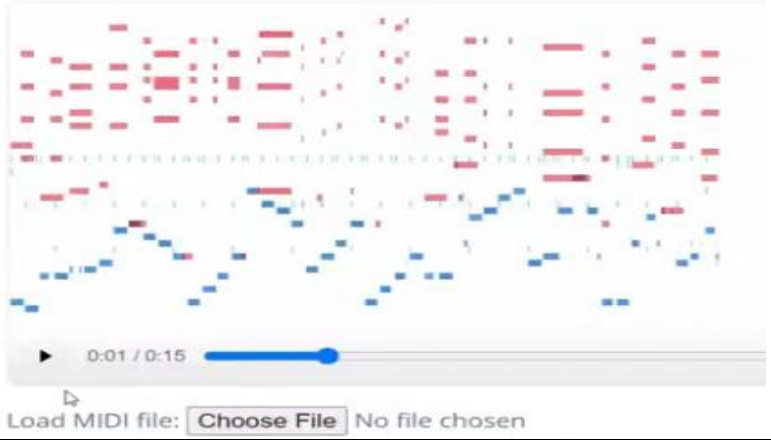
Rubrics:

AIML Minor Project	Poster on Minor Project	Video based presentation and demonstration of Minor Project	IEEE BLP	IEEE PDH	**Total Marks AIML EL**
25	05	05	03	02	**40**









2022-23

Case Study – 1 (Complete Process report with Evaluation rubrics)

COURSE TITLE: VIRTUAL R EALITY & AUGMENTED AND

COURSE CODE: 18IS72

7th SEMESTER Experiential Learning

Experiential Learning was evaluated in two phases

Phase1 : Students are required to demonstrate in line with the following guidelines

1. Include a 3D model from Asset store and demonstrate Marker Based application
2. Explore the different 3D software that can be integrated with Unity and its Application
3. Develop a basic application of 3D model using Blender

Phase2 : Students are required to demonstrate the application on the topic selected using 3D software and submit the report

1. To create accurate and realistic representations of protein molecule 3D model using Blender.
2. Integrate the created model with Unity
3. Name the model accordingly and include animation

Finally Demonstrate markerless application of the 3D model

Case Study – 2 (Complete Process report with Evaluation rubrics)

PROGRAMMING IN JAVA

The The Experiential learning for 4th semester students was conducted in combination with Programming in Java- 21IS49 and Design and Analysis of Algorithms- 21CS43 course together.

Real -world case studies were assigned to the students of 3-4 batch each. There were about 17 batches formed and guided timely by faculty in-charges of both Java and Algorithms courses.

Rubrics of Evaluation:

Evaluation of Java assignments for engineering students is crucial in assessing their understanding and application of programming concepts. The evaluation rubrics included various aspects of implementation of case-study in the form of a running module, including code structure, functionality, adherence to best practices, documentation, and performance.

- ✓ R1. Code Structure and Organization: The evaluation examined the clarity and organization of the codebase, focusing on logical structuring, appropriate naming conventions, and modularization to enhance readability and maintainability.
- ✓ R2. Functionality and Correctness: The code was evaluated based on its ability to meet specified requirements, handle edge cases, and produce accurate outputs.
- ✓ R3. Test cases were employed to validate functionality under various scenarios.
- ✓ R4. Adherence to Best Practices: Students were assessed on the utilization of object-oriented principles, such as encapsulation, inheritance, and polymorphism, as well as adherence to coding standards and conventions endorsed by the Java community.
- ✓ R5. Documentation and Comments: Effective documentation, including inline comments and method descriptions, for conveying code intent and functionality. Clear documentation enhances readability and facilitates collaboration among developers.
- ✓ R6. Performance and Optimization: The evaluation considered the program's runtime behaviour, and optimization opportunities. Efficient code that minimizes resource consumption demonstrated students' understanding of algorithmic complexity and optimization techniques.

Overall, the EL was successfully conducted and evaluated with a focus on key components listed as rubrics 1 – 6. Faculty members provided constructive feedback to enhance students' programming skills and readiness for real-world software development. Continuous assessment and refinement of EL helped students in comprehending OO programming and algorithms through Java programming and gaining proficiency in coding adapting software engineering principles.

2021-22

Case Study – 1 (Complete Process report with Evaluation rubrics)

Computer Networks(18IS52)
Rubrics for EL Evaluation:

Sl.No	Rubrics	Marks
1	Title Finalization and Punctuality/interaction	**5**
2	Design and Implementation	**5**
3	Demonstration and Usefulness	**5**
4	Report	**5**

Case Study – 2 (Complete Process report with Evaluation rubrics)
Discrete Mathematical Structures – 18CS36 : Theme: Problem Solving on Logic, Relations, Functions, Groups and FSMs.

The marks component for experiential learning is 20.

2020-21

Case Study – 1 (Complete Process report with Evaluation rubrics)

1. Service Oriented Architecture- 18MSE1A1-MTech SE 1st sem

Process flow:

- Discussion of topics
- Distribution of topics
- Criteria and Rubric announcement
- Interim review
- Final review and assesment

Evaluation Criteria:

2. Tool exploration with project - 20 marks
3. Open source community contribution- 10 marks

Case Study – 2 (Complete Process report with Evaluation rubrics)
Software Engineering – Project Execution

Rubrics for EL Evaluation

	Scopus journal	IEEE conference	UGC Journal	International conference	National conference
Paper accepted and registered/published	20	19	18	17	16
Papers accepted and not published/registered	15	14	13	12	11
Papers drafted but not yet submitted /not accepted by any of the journals/conference	>=7<=10, to be reviewed and decided based on content and quality of paper, format of paper.				
Paper writing in the process	>=05<7,to be reviewed and evaluated				

2019-20

Case Study – 1 (Complete Process report with Evaluation rubrics)
Cryptography Network Security
Course Name: CRYPTOGRAPHY & NETWORK SECURITY
Course Code: 16IS73
As a part of this course a set of 10 Questions are presented to the students out of which any two exercises need to be carried out using any programming tool**.** The assignment also contains presentation on a

relavant topic to security. Both components will be evaluated based on the extent to which the student can exploit any tool features in order to carry out the experiment and present relevance of this course to societal cause.

Rubrics for Evaluation

	Excellent	Very Good	Good	Satisfactory
Program Execution (4)	Tool thoroughly learnt and feature exploitation for the experiment is excellent	Problem understanding is good and Study of relevant details in depth.	Average background study conducted and only what is required is presented	Tool study and problem understanding satisfactory.
Presentation (3)	Presentation of relavant learning and providing suggestions on future enhancement. Aim of the experiment is achieved with competence. Communication competence exhibited.	Presentation of existing work. Communication good. Aim achieved	Presentation with appropriate results. Communication good.	Presentation with Survey and proposed work. Communication satisfactory.
Report(2)	Format, Originality and content highly satisfied with appropriate illustrations taken from the tool	Content from internet resources (acknowledged appropriately)	Content from internet resources and other literature reviews. (citations mentioned)	Content and effort for report generation satisfactory
Punctuality(1)	On time submission of the Presentation as well as Report	Met the deadline but with a few glitches in report	Presented on time but modifications suggested in Experiment	Late submission of report/experiment demonstration

Case Study – 2 (Complete Process report with Evaluation rubrics)

Database Management Systems(PBL – Lab)

Week	Task List	Marks (10)
1	Relational Model and ER Diagram	---
2	Mapping of Relational Database Schema from ER Diagram	---
3	Problem Statement with detailed report of conceptual requirements (Synopsis with SRS)	
4	ER Model with entities, relationships, cardinality ratio and participation (ER Diagram)	
5	Mapping of ER diagram to Relational Database Schema and Normalization (Upto BCNF, at least)	
6	Sample exercises (SQL and Oracle)	

7	Creation of Tables and Populating data	
8	Demo of working Project (Proof of Correctness)	
9	Front End Design with detailed Functional requirements. (DFD's, Form and Views)	
10	Testing (Validation of the Forms and Security features)	
11	Project Demo (Mini Project Demonstration)	
12	Project Report submission & Lab internals	

Sl. No 1 -10 Evaluated for 10 marks each and reduced to 30 Marks
Sl. No 11- 10 marks
Sl.No 12 – 10 marks
Total: 50 Marks.

2018-19

Case Study – 1 (Complete Process report with Evaluation rubrics)

Course Name: Enterprise Architecture

Course Code: 12IS7E2

As a part of this course a set of 10 Questions are presented to the students out of which any two exercises need to be carried out using Enterprise Architect Tool**.** The assignment will be evaluated based on the extent to which the student can exploit the tool features in order to carry out the experiment.

Rubrics for Evaluation

	Excellent	Very Good	Good	Satisfactory
Project Execution (4)	Tool thoroughly learnt and feature exploitation for the experiment is excellent	Problem understanding is good and Study of relevant details in depth.	Average background study conducted and only what is required is presented	Tool study and problem understanding satisfactory.
Demonstration (3)	Presentation of relavant learning and providing suggestions on future enhancement. Aim of the experiment is achieved with competence. Communication competence exhibited.	Presentation of existing work. Communication good. Aim achieved	Presentation with appropriate results. Communication good.	Presentation with Survey and proposed work. Communication satisfactory.
Report(2)	Format, Originality and content highly satisfied with appropriate illustrations taken from the tool	Content from internet resources (acknowledged appropriately)	Content from internet resources and other literature reviews. (citations mentioned)	Content and effort for report generation satisfactory
Punctuality(1)	On time submission of the Presentation as well as Report	Met the deadline but with a few	Presented on time but modifications	Late submission of report/experiment demonstration

		glitches in report	suggested in Experiment	

Case Study – 2 (Complete Process report with Evaluation rubrics)
Information Security
Assignment Evaluation:

Rubrics for Evaluation		Marks Awarded
1	Title Finalization and Punctuality/interaction	**5**
2	Design and Implementation	**5**
3	Demonstration and Usefulness	**5**
4	Report	**5**

7. Recommendations for Integrating Experiential Learning:

Based on the findings of the report, this section provides practical recommendations for educators and institutions looking to integrate experiential learning into their teaching practices. It offers guidance on curriculum design, faculty training, and assessment methods tailored to experiential learning.

8. Outcome & Conclusion:

The report concludes by summarizing key findings and insights from the exploration of experiential learning practices. It underscores the importance of experiential learning in fostering student success and calls for continued efforts to promote its widespread adoption in engineering education.

Course Wise Subtopic information need to be filled:

Fundamentals of C Programming

List of Students

SL NO.	USN	NAME OF THE STUDENT	Topic of EL
1.	RVCE23BIS101	Jason Rohith Alva	mini games suite
2.	RVCE23BIS114	Dheeraj R	mini games suite
3.	RVCE23BIS127	Aditya Karumbaiah G U	mini games suite
4.	RVCE23BCS035	Vineeth Rao	Timetable architect

5.	RVCE23BCS130	Shreya Prasad	Timetable architect
6.	RVCE23BCY001	Shrish Deshpande	Schrodinger wave function using Artificial Intelligence
7.	RVCE23BCY064	Mihir Shriniwas Arya	Schrodinger wave function using Artificial Intelligence
8.	RVCE23BCS026	Sumadhva Krishna H M	Bank management system using C++
9.	RVCE23BCS137	Syed Muzammil Hussaini	Bank management system using C++
10.	RVCE23BCS017	Raghavendra Prasad B M	Bank management system using C++
11.	RVCE23BIS110	Akshay Shetty	Conway's Game of Life
12.	RVCE23BIS069	Nihaal SP	Conway's Game of Life
13.	RVCE23BIS036	Pranshu Joshi	Mini games using C++ with SFML lib
14.	RVCE23BIS052	Aayush Pandey	Mini games using C++ with SFML lib
15.	RVCE23BIS083	Pulkit Gupta	Mini games using C++ with SFML lib
16.	RVCE23BCS310	Shriyam Adya Sharma	Stock Portfolio Management System
17.	RVCE23BCS108	Vanya Singh	Stock Portfolio Management System
18.	RVCE23BIS039	Dhruthi Rudrangi	Stock Portfolio Management System
19.	RVCE23BIS066	Siddheswaran	The Code Cosmos Project
20.	RVCE23BIS131	Arya Shetty	The Code Cosmos Project
21.	RVCE23BIS017	Kotra Sasank	Hospital Management System
22.	RVCE23BIS061	Avni Jain	Hospital Management System
23.	RVCE23BIS007	Spandana KN	Hospital Management System

24.	RVCE23BIS076	Mahalakshmi BN	Hospital Management System
25.	RVCE23BIS004	Kaizer Dewaswala	Question Bank Application in C++
26.	RVCE23BIS018	Manasa Krishnakumar	Question Bank Application in C++
27.	RVCE23BCS281	PUNEETH R	chess game
28.	RVCE23BIS140	Shrinivas J Alalageri	chess game
29.	RVCE23BIS092	N sai shreyas	Clog detecting system in drainage
30.	RVCE23BCS270	Sadhana S H	Clog detecting system in drainage
31.	RVCE23BIS103	Deeksha	
32.	RVCE23BIS060	Apoorva	TRADING SOFTWARE
33.	RVCE23BIS080	VEDANT BATHWAL	TRADING SOFTWARE
34.	RVCE23BIS001	VANSH BHARDWAJ	TRADING SOFTWARE
35.	RVCE23BCS190	YASHWANTH RATHI	TRADING SOFTWARE
36.	RVCE23BIS139	VISHAL K BHAT	QUIZ GAME USING C++
37.	RVCE23BIS141	Bagesh tallolli	data encryption
38.	RVCE23BIS145	Mohammad Oweis	data encryption
39.	RVCE23BCY054	Ankit Pathak	data encryption
40.	RVCE23BCY041	Yashas MN	Distribution of water and crops
41.	RVCE23BCS177	Nithish B	Distribution of water and crops
42.	RVCE23BCS078	Shrikant	Contact Management System

43.	RVCE23BCS243	Vishal Reddy	Contact Management System
44.	RVCE23BCS303	Vrushank	Contact Management System
45.	RVCE23BCS076	Supreeth S	Linear System Calculator
46.	RVCE23BCS082	Yadamreddy Navaneeth	Linear System Calculator
47.	RVCE23BCS269	Prarthana Kulkarni	Centralised medical records
48.	RVCE23BIS142	Rudresh M S	Employee management system
49.	RVCE23BIS137	V Nikhil	Employee management system
50.	RVCE23BCS139	Swamy B S	Employee management system
51.	RVCE23BCY016	S Harshitha	Driver's safety protocol system
52.	RVCE23BCY015	Harsha Vardhan N	Blood-Bank-Management-System.
53.	RVCE23BCY044	SANJAY S	Blood-Bank-Management-System.
54.	RVCE23BCY057	Somin Narain	Bank Management System
55.	RVCE23BCS132	Yeshas Raju	Expense Tracker
56.	RVCE23BCS260	Tarun R	Expense Tracker

AIML – 21CS52 EL Topics		
Team Number	**Team member's detail USN - Name**	**Title of the EL component**
1	1RV21IS057-Spoorthi_V,1RV21IS061-Vinay_Kumar_D,1RV21IS043-SS_Ashish	Strategic Spikes: Enhancing Timing, Approach, and Player Performance in Volleyball using Machine Learning

2	Aneesh Adiga S (1RV21IS009), Chaithanya Ganesh (1RV21IS014)	AI-Infused YouTube Analytics: Building a Predictive Model for Enhanced Video Performance
3	Rhythm Kishore - 1RV21IS041, Romharsh - 1RV21IS042	Bank Marketing Campaign Analysis
4	1RV21IS001 - Aaditaa Vashisht , 1RV21IS016 - Ehsaas Rajpurohit	Bone Tumors Detection and Bone Fracture Detection
5	1RV21IS002 - ABDUR RUB SATTIKAR 1RV21IS003 - ABHIN DIVAKAR V K	Brain Tumour Detection
6	1RV21IS046 - Sanjan Rao, 1RV21IS059 - V Vishwa Karthik	Carbon Footprint Evaluator
7	1RV21IS031-Namya Dimri, 1RV21IS064-Rasha Sinha	Credit Card Fraud Detection
8	NETANYA SINGH- 1RV21IS032 PRAGADEESH A - 1RV21IS034	CRICKET SCORE PREDICTOR
9	1RV21IS032 - Netanya Singh, 1RV21IS034 - Pragadeesh A	Cricket Score Predictor
10	1RV21IS051 - Shreyas G 1RV21IS056 - Sohail L Mulla	Detection and Recognition of Weapons in Surveillance Videos
11	1RV21IS050-Shreya Pathya 1RV21IS053-Siddhant Kagganty	Driver Drowsiness Detection
12	1RV21IS008 - Ananya Anand 1RV21IS019 - Ishaani R Gowda	Facial Recognition System for student management
13	1RV21IS058-TUSHAR HOTANI, 1RV21IS045-SAMEER AMAR ALASKAR	FAKE NEWS DETECTION SYSTEM
14	1RV21IS004-Abhinav Bagalkot 1RV21IS015-Darshan Jadhav	Food Calorie Estimation
15	1RV21IS023 - KANHAIYA DUTTA 1RV21IS029 - MOHAMMAD SABEEL	Leaf Disease Detection using Image classification
16	1RV21IS006-ADITYA TIWARI 1RV21IS007-AMRIT MAHESHWARI 1RV21IS013-ARUNESH SRIVASTAVA	MOBILE PHONE PRICE PREDICTION
17	1RV21IS030-Naman Agarwal 1RV21IS037-Priyanshu Ranjan	Music Generation using Deep Learning
	1RV21IS010-ANIRUDH SAI YETIKURI 1RV21IS005-ADITHYA KRISHNA SRIDHAR	NLP FOR MCQ GENERATION
18	Sneha P M - 1RV21IS055 Yaminee Kumari - 1RV21IS062	Phishing Website Detection
19	1RV21IS025-Malepati Ananya , 1RV21IS039-Punya R	Recipe Recommendation System
20	SINCHANA MATH -1RV21IS054 SHREEJA P KULKARNI -1RV21IS049	RECRUITMENT ANALYSIS AND RECOMMENDATION SYSTEM

21	Shubham Parida(1RV21IS052), Sachin Singh(1RV21IS044)	resume parser and presenter
22	1RV22IS404- SANDYA M S , 1RV21IS060-VEERENDRA M N	Sign Language Detection
23	(1RV21IS048)Sanjay D Kulal (1RV21IS047)Sanjana Patwari	Skin Disease Detection and Skin cancer Classification
24	Maneesh S 1RV21IS026 Prajwal R 1RV21IS035	Solar Energy Forecasting
25	1RV21IS063	Stock Prediction Using Machine Learning
26	1RV21IS021 - JAYANTH RAO PM	sudoku digitiser
27	1RV21IS022-K Akash,1RV21IS038-P Reddy Dhanush	Surya Namaskara pose classification
28	Jayanth C -1RV21IS020, Manoj M-1RV21IS027, Mayur G Parvatikar-1RV21IS028	SwarSangam : Exploring Hindustani Music through a Dynamic Database and Personalized Recommendation Engine
29	1RV21IS024 - M R Abhishek Bharadwaj 1RV21IS033 - P S Mukthiteja 1RV22IS402 - Madhu c	Travel Recommendation system
30	1RV22IS400 - GURUKIRAN G 1RV22IS401 - HOSAMANE VEERABHADRAPPA SETTY	Video Transcript Summariser
31	1RV21IS017-G.S. Keshav, 1RV21IS018-Gundlapalli Venkata Akhilesh	Voice controlled interactive chessbot
32	1RV21IS011- Anish S 1RV21IS012- Ankita Kumari	Yoga Pose Estimation

7th sem : Augmented Reality and Virtual Reality

Team NO	USN	NAME	TOPIC
1	1RV20IS049	Shashank V	unity devops
	1RV20IS061	Vignesh Kumar S	
2	1RV20IS007	Ananya G	Ar app for furniture placement / Spark AR
	1RV20IS013	B Varshitha	
3	1RV20IS043	Santosh Vishwanathan	AR based Face Filter
	1RV20IS069	Mayank Somani	
4	1RV20IS032	Prajwal N J	AR app for lifestyle and e-commerce products exploration
5	1RV20IS067	Kanupriya Anand	AR app for fire escape routes

	1RV20IS050	Shashi Ranjan	
6	1RV20IS041	Sameeksha Keshav	Ar app for educational purposes in human anatomy
7	1RV20IS017	Dileep Sharma	AR app for analysis of CPU parts
	1RV20IS020	Karthik Pai	
8	1RV20IS001	Abdu Rehaman Pasha Syed	AR app for puzzles
	1RV20IS012	Aryan Wani	
9	1RV20IS059	Utkarsh Khandelwal	AR app to scan and spawn a character and control it using joystick
	1RV20IS068	Raksha K Swamy	
10	1RV20IS022	Keerthana DM	ARAL - Augmented Reality Android-based learning
	1RV20IS026	Nisarga V	
11	1RV20IS024	Manu S Rao	AR App for Chemical Reactions
	1RV20IS027	Nishanth S	
12	1RV20IS066	Chetna Kumari	Ball in a Maze
	1RV20IS028	Omkar Kabbur	
13	1RV20IS005	Affan Ahmad	AR app for Watch Try On
	1RV20IS010	Anushka Jindal	
14	1RV20IS064	Yuvaraj Rayamane	VR based Knapsack problem solver
	1RV20IS018	Yash Keerthan G S	
15	1RV20IS019	Hitesh Belekeri	Real time traffic simulation
	1RV20IS031	Phanindra B N	
16	1RV20IS054	S Yaswanth Reddy	Ar app for flight enhancement
	1RV20IS055	Subhash Chandra Bose Lavu	
17	1RV20IS030	Parthiv Panicker	Creative Core:UI (AR voice ChatBot application)
	1RV20IS033	Prakhar Jaju	
	1RV20IS065	Amish Raj Gupta	
19	1RV20IS056	Sumedha MR	Unrealengine tool demo
	1RV20IS00	Aditya kamarthi	
20	1RV20IS048	Shashank S J	Visual Scripting

	1RV20IS063	Yashwanth Kumar C	
21	1RV20IS023	M S Sandeep Kamath	AR App for musical Instruments.
	1RV20IS038	Rakshith Dattaraya Hegde	
22	1RV20IS040	Rohan Kumar Mudhol	unity analytics
	1RV20IS015	Chirag S	
23	1RV20IS046	Shantanu Jha	Shooter AR
	1RV20IS035	Pritish Raj	
24	1RV20IS052	Shreeya Agarwal	Real Time Town Simulator
	1RV20IS009	Anusha Jain	
25	1RV20IS016	Dhisha S Babu	AR app - height and width measurement app
	1RV20IS058	Thasmayi C	
26	1RV20IS008	Ankush Kalsotra	AR app - Real Estate
	1RV20IS014	B Mohit Manihara	
27	1RV20IS030	Parthiv Panicker	Real Time Town Simulator

EL - Programming in Java

SL. NO.	USN	NAME OF THE STUDENT	Topic of EL / PBL
1	1RV21IS001	Aaditaa Vashisht	Create Java Module to Search a given key and fetch row/details from Excel file.
2	1RV21IS002	Abdur Rub Sattikar	Create Java Module to Extract data from excel and display on User Interface.
3	1RV21IS003	Abhin Divakar V K	Create Java Module to Scrape information (of given topic) and save in Excel file.
4	1RV21IS004	Abhinav Bagalkot	Create Interactive Dashoard to read input and display output.
5	1RV21IS005	Adithya Krishna Shridhar	Generate JSON file to store details fetched from Excel file.
6	1RV21IS006	Aditya Tiwari	Perform CRUD operations on Excel file (consisting of text data).
7	1RV21IS007	Amrit Maheshwari	Generate and display dynamic graphs based on statistics data shared in JSON file. (Graphs must keep changing everytime there is value change in JSON).
8	1RV21IS008	Ananya Anand	Perform CRUD operations on Excel file (consisting of text data).
9	1RV21IS009	Aneesh Adiga S	A car may stay in 3 states. Normal, warm up and halt state.

			Predict the chances of the car reaching halt state from warmup state.
10	1RV21IS010	Anirudh Sai Yetikuri	Generate and display dynamic graphs based on statistics data shared in JSON file. (Graphs must keep changing everytime there is value change in JSON).
11	1RV21IS011	Anish S	Create a Java logger module that records events, errors, and debug information systematically.
12	1RV21IS012	Ankita Kumari	Create a Java logger module that records events, errors, and debug information systematically.
13	1RV21IS013	Arunesh Srivastava	Generate and display dynamic graphs based on statistics data shared in JSON file. (Graphs must keep changing everytime there is value change in JSON).
14	1RV21IS014	Chaithanya Ganesh	A car may stay in 3 states. Normal, warm up and halt state. Predict the chances of the car reaching halt state from warmup state.
15	1RV21IS015	Darshan Popat Jadhav	Create Interactive Dashoard to read input and display output.
16	1RV21IS016	Ehsaas Rajpurohit	Create Java Module to Search a given key and fetch row/details from Excel file.
17	1RV21IS017	G S Keshav	Restart Java Process P1 and restore its state to the previous state it was before restarting.
18	1RV21IS018	Gundlapalli Venkata Akhilesh	Restart Java Process P1 and restore its state to the previous state it was before restarting.
19	1RV21IS019	Ishaani R Gowda	Create Java Module to identify cross referenced Java Objects.
20	1RV21IS020	Jayanth C	Replace java process P1 by P2 when certain condition is met. Ensure P2 continues the work being carriedout by P1. (suppose, P1 has printed 55 numbers out of 100, let P2 start printing from 56 till 100).
21	1RV21IS021	Jayanth Rao P M	Create Interactive Dashoard to read input and display output.
22	1RV21IS022	K Akash	Create Java Module to Extract data from excel and display on User Interface.
23	1RV21IS023	Kanhaiya Dutta	Create a Java module to restart Java Process P1 and restore its state to the previous state it was before restarting.
24	1RV21IS024	M R Abhishek Bharadwaj	Write a program in java that monitors and backup a directory. From time to time, the program has to upload modified files to the

			repository or download if there is a new version of it.
25	1RV21IS025	Malepati Ananya	Create a Java module to replicate a Java process P1 to P2, list all the resources it is holding.
26	1RV21IS026	Maneesh S	A car may stay in 3 states. Normal, warm up and halt state. Predict the chances of the car reaching halt state from warmup state.
27	1RV21IS027	Manoj M	Replace java process P1 by P2 when certain condition is met. Ensure P2 continues the work being carriedout by P1. (suppose, P1 has printed 55 numbers out of 100, let P2 start printing from 56 till 100).
28	1RV21IS028	Mayur G Parvatikar	Replace java process P1 by P2 when certain condition is met. Ensure P2 continues the work being carriedout by P1. (suppose, P1 has printed 55 numbers out of 100, let P2 start printing from 56 till 100).
29	1RV21IS029	Mohammad Sabeel	Create a Java module to restart Java Process P1 and restore its state to the previous state it was before restarting.
30	1RV21IS030	NAMAN AGARWAL	Restart Java Process P1 and restore its state to the previous state it was before restarting.
31	1RV21IS031	Namya Dimri	Create a Java module to replicate a Java process P1 to P2, list all the resources it is holding.
32	1RV21IS032	Netanya Singh	Create Java Module to Scrape information (of given topic) and save in Excel file.
33	1RV21IS033	P S Mukthiteja	Write a program in java that monitors and backup a directory. From time to time, the program has to upload modified files to the repository or download if there is a new version of it.
34	1RV21IS034	Pragadeesh A	Create Java Module to Scrape information (of given topic) and save in Excel file.
35	1RV21IS035	Prajwal R	A car may stay in 3 states. Normal, warm up and halt state. Predict the chances of the car reaching halt state from warmup state.
36	1RV21IS036	Prakash Shinde	Write a program in java that monitors and backup a directory. From time to time, the program has to upload modified files to the repository or download if there is a new version of it.
37	1RV21IS037	Priyanshu Ranjan	Restart Java Process P1 and restore its state to the previous state it was before restarting.

38	1RV21IS038	Pulikunta Reddy Dhanush	Create Java Module to Extract data from excel and display on User Interface.
39	1RV21IS039	Punya R	Create Java Module to identify cross referenced Java Objects.
40	1RV21IS041	Rhythm Kishore	Create a Java module to Java Persistence API.
41	1RV21IS042	Romharsh Siddharth Sheth	Generate and display dynamic graphs based on statistics data shared in JSON file. (Graphs must keep changing everytime there is value change in JSON).
42	1RV21IS043	S S Ashish	Create Java Module to Search a given key and fetch row/details from Excel file.
43	1RV21IS044	Sachin Singh	Create a Java module to Java Persistence API.
44	1RV21IS045	Sameer Amar Alaskar	Create a Java module to restart Java Process P1 and restore its state to the previous state it was before restarting.
45	1RV21IS046	Sanjan Rao	Generate JSON file to store details fetched from Excel file.
46	1RV21IS047	Sanjana Patwari	Perform CRUD operations on Excel file (consisting of text data).
47	1RV21IS048	Sanjay D Kulal	A car may stay in 3 states. Normal, warm up and halt state. Predict the chances of the car reaching halt state from warmup state.
48	1RV21IS049	Shreeja P Kulkarni	Create a Java module to replicate a Java process P1 to P2, list all the resources it is holding.
49	1RV21IS050	Shreya Pathya	Create a Java module to generate JSON file to store details fetched from Excel file.
50	1RV21IS051	Shreyas G	Create a Java logger module that records events, errors, and debug information systematically.
51	1RV21IS052	Shubham Parida	Generate and display dynamic graphs based on statistics data shared in JSON file. (Graphs must keep changing everytime there is value change in JSON).
52	1RV21IS053	Siddhanth N Kagganty	Create Java Module to identify cross referenced Java Objects.
53	1RV21IS054	Sinchana Math	Create a Java module to replicate a Java process P1 to P2, list all the resources it is holding.
54	1RV21IS055	Sneha P M	Create a Java module to Java Persistence API.
55	1RV21IS056	Sohail Ladlemashak Mulla	Create Java Module to Scrape information (of given topic) and save in Excel file.
56	1RV21IS057	Spoorthi V	Create a Java logger module that records events, errors, and debug information systematically.

57	1RV21IS058	Tushar Hotani	Create a Java module to restart Java Process P1 and restore its state to the previous state it was before restarting.
58	1RV21IS059	V Vishwa Karthik	Replace java process P1 by P2 when certain condition is met. Ensure P2 continues the work being carriedout by P1. (suppose, P1 has printed 55 numbers out of 100, let P2 start printing from 56 till 100).
59	1RV21IS060	Veerendra Manjunath Naik	Perform CRUD operations on Excel file (consisting of text data).
60	1RV21IS061	Vinay Kumar D	Replace java process P1 by P2 when certain condition is met. Ensure P2 continues the work being carriedout by P1. (suppose, P1 has printed 55 numbers out of 100, let P2 start printing from 56 till 100).
61	1RV21IS062	Yaminee Kumari	Create a Java module to Java Persistence API.
62	1RV21IS063	Yashasvi Tiwari	Create a Java module to generate JSON file to store details fetched from Excel file.
63	1RV21IS064	RASHA SINHA	Create Interactive Dashoard to read input and display output.
64	1RV21IS065	R VARSHA BANTIA	Create a Java module to generate JSON file to store details fetched from Excel file.
65	1RV22IS400	GURUKIRAN G	Create a Java logger module that records events, errors, and debug information systematically.
66	1RV22IS401	HOSAMANE VEERABHADRAPPA SETTY	Create Java Module to identify cross referenced Java Objects.
67	1RV22IS402	MADHU C	Write a program in java that monitors and backup a directory. From time to time, the program has to upload modified files to the repository or download if there is a new version of it.
68	1RV22IS404	SANDYA M S	Create a Java module to generate JSON file to store details fetched from Excel file.
69	1RV22IS405	SHRAVAN KUMAR	Restart Java Process P1 and restore its state to the previous state it was before restarting.

List of Students (2021-22) – ODD- Computer Networks

Sl.No	USN	Name	EL Topic
1	1RV19IS014	B Srinivas	HTTP LOAD BALANCING WITH ASSOCIATED ANALYTICS
2	1RV19IS003	AKASH SHETTY	TCP CHAT ROOM
3	1RV19IS049	Shivam Prajapati	Demonstration of selective repeat protocol using java sockets

4	1RV19IS005	AMEYA MAHADEV GONAL	Communication through sockets
5	1RV19IS001	Abhiram Srivathsa K H	Network topology using Cisco Packet Tracer
6	1RV19IS047	Senthooran B	Socket Programming for browser and client
7	1RV19IS033	NIKITA S RAO	MQTT
8	1RV19IS055	Srihari C	Smoke Detection and Fire Prevention system using Cisco Packet Tracer
9	1RV19IS026	Kushagra Jain	Routing in NoC
10	1RV19IS035	O S Sumukh	Socket programming demonstration using a java game
11	1RV18IS060	Vinodakumar	Computer network
12	1RV19IS019	GORLA CHARAN SAI CHOWDARY	steganography
13	1RV19IS048	Shakthi Sagar M	RFID Lock mechanism using Cisco Packet Tracer
14	1RV19IS057	SRIRAM BALAKRISHNA	PROVABLE SECURITY FOR CRYPTOCURRENCIES
15	1RV19IS024	KHUSHI S L	Secure Shell Protocol
16	1RV19IS031	Nidhi H Halappanavar	SSH PROTOCOL
17	1RV19IS060	Uday A S	Secure Shell Using WebSockets
18	1RV19IS067	Mohammed Ihtesham	Video Conferencing using WebRTC
19	1RV19IS025	Kushagra Gupta	Encryption & Decryption Using Deffie Hellman Algorithm
20	1RV19IS028	Monika S	Distributed denial of services
21	1RV19IS051	SHIVANAND SUNAGAR	RIP Configuration
22	1RV19IS022	K MANOHAR PRAKUL	IMPLEMENTATION OF TOKEN BUCKET ALGORITHM
23	1RV19IS034	Nishanth Rao	Implementing basic FTP protocol.
24	1RV19SI032	NIKHIL SANDILYA	Image encryption and Decryption
25	1RV20IS401	Guruprasad K	Protocol analysis on Wireshark
26	1RV19IS009	Arun Kumar	Secure Shell Protocol (SSH)
27	1RV19IS010	Atharv Prashant Wani	Simulation of Sliding Window Protocols
28	1RV19IS021	K A Sumukh	Compare and contrast Network Topologies. Star Mesh Hybrid Ring Bus
29	1RV19IS020	Harshit Handa	Design and implementation of keylogger in windows
30	1RV20IS400	G channa basava	TCP CHAT ROOM
31	1RV19IS036	Prashant Abbi	Bot Detection in Networks using ML
32	1RV19IS054	Sri Vishnu D	Ant colony optimization algorithm

33	1RV19IS063	Vikram Shenoy	Demonstration of Rate limiting Algorithms
34	1RV19IS044	S Advaith	
35	1RV19IS037	PRINSON FERNANDES	Encryption & Decryption Using Deffie Hellman Algorithm
36	1RV19IS046	Sahil Sharma	Wireshark - HTTP analysis
37	1RV19IS013	B CHIRAG BALIGA	HTTP LOAD BALANCING WITH ASSOCIATED ANALYTICS
38	1RV19IS007	Anurag Ashish Khot	TCP CHAT ROOM
39	1RVIS038	RACHITA AGARWAL	Demonstration of selective repeat protocol using java sockets
40	1RV19IS066	Shiva Shashank Dhavala	Communication through sockets
41	1RV19IS043	Ronit Agarwal	Network topology using Cisco Packet Tracer
42	1RV19IS059	Tarun Srivatsa V S	Socket Programming for browser and client
43	1RV19IS039	RAJOTH SAHA	MQTT
44	1RV19IS004	Akshay A Kumar	Smoke Detection and Fire Prevention system using Cisco Packet Tracer
45	1RV19IS040	RISHABH R	Routing in NoC
46	1RV19IS016	CHANDANA J	Socket programming demonstration using a java game
47	1RV19IS029	NM Nishant	Computer network
48	1RV19IS062	Varshini L	steganography
49	1RV19IS065	Dandavati Suhas	RFID Lock mechanism using Cisco Packet Tracer
50	1RV19IS012	Ayush Gupta	PROVABLE SECURITY FOR CRYPTOCURRENCIES
51	1RV19IS053	Sri Chandana K	Secure Shell Protocol
52	1RV19IS064	VINAYAK KRISHNA PRASAD	SSH PROTOCOL
53	1RV19IS015	DR BHARGAV	Secure Shell Using WebSockets
54	1RV19IS058	SURAJ RAJSHEKHAR MUKKANNAVAR	Video Conferencing using WebRTC
55	1RV20IS402	Nagaraj Shrikrishna Hegde	Encryption & Decryption Using Deffie Hellman Algorithm
56	1RV19IS050	Shivanand	Distributed denial of services
57	1RV19IS030	Nachiketa Nalin	RIP Configuration
58	1RV19IS017	Chirag K Shetty	IMPLEMENTATION OF TOKEN BUCKET ALGORITHM
59	1RV19IS023	Ketan Vaish	Implementing basic FTP protocol.
60	1RV20IS405	Vignesh	Image encryption and Decryption

61	1RV19IS401	Mohammad Abdul Razak Wahab	Protocol analysis on Wireshark
62	1RV19IS002	Akash khalmesh Hiremath	Secure Shell Protocol (SSH)

List of Students

DMS 18CS36 Odd Sem 2021 - 22

SL NO.	USN	NAME OF THE STUDENT	Topic of EL / PBL
1	1RV20IS001	ABDU REHAMAN PASHA SYED	1a.Convert the following English sentences into logical expressions a)You do not drive over 65 mph or you get a speeding ticket, but not both b)Whenever you get a speeding ticket, you are driving over 65 mph b. Let p:You forgot to set your alarm. q:You miss the Final exam. r: You pass the course Formulate in English the following compound propositions. a)r --> ~q b)(p --> q) ^ (q --> ~r) c)(p ^ q) v (~q ^ r) 2a. For the compound proposition, (~p ^ ~q) ^ (~r --> p), Find an equivalent expression which uses only ^ and ~ and which is as simple as possible b. Consider the following english arguments. Define propositions/predicates and translate these arguments into logic, then prove or disprove whether the form of the argument is valid. If I like mathematics then I will study. Either i don't study or I pass mathematics. If I don't pass mathematics, then I don't graduate. Therefore, If I graduate, then I like mathamatics.
2	1RV20IS003	ADITYA GEHLAWAT	
3	1RV20IS004	ADITYA KAMARTHI	
4	1RV20IS005	AFFAN AHMED	
5	1RV20IS007	ANANYA G	
6	1RV20IS008	ANKUSH KALSOTRA	
7	1RV20IS009	ANUSHA JAIN	
8	1RV20IS010	ANUSHKA JINDAL	
9	1RV20IS011	ARPIT VERMA	
10	1RV20IS012	ARYAN WANI	
11	1RV20IS013	B VARSHITHA	3a.Let p(x): x2 – 8x + 15 = 0, q(x): x is odd, r(x): x>0. For the universe of all integers determine the truth or falsity of each of the following statements. If the statement is false give a counter example. (a) $\forall x[p(x) \rightarrow q(x)]$ (b) $\exists x[q(x) \rightarrow p(x)]$ Negate & simplify the following (a) $\exists x[p(x) \vee q(x)]$ (b) $\forall x[p(x) \wedge \sim q(x)]$ (c) $\forall x \exists y[(p(x, y) \wedge q(x, y)) \rightarrow r(x, y)]$. 4a.Establish the validity of the following argument:
12	1RV20IS014	MOHIT MANIHARA BOORLAGADDA	
13	1RV20IS015	CHIRAG S	
14	1RV20IS016	DHISHA S BABU	

15	1RV20IS017	DILEEP SHARMA	If the band could not play rock music or the refreshments were not delivered on time, then the New Year's party would have been canceled and Alicia would have been angry. If the party were canceled, then refunds would have had to be made. No refunds are made. Therefore refreshments were not delivered on time. b. A basketball team has 12 players. However, only five players play at any given time during a game. In how may ways may the coach choose the five players? To be more realistic, the five players playing a game normally consist of two guards, two forwards, and one center. If there are five guards, four forwards, and three centers on the team, in how many ways can the coach choose two guards, two forwards, and one center? What if one of the centers is equally skilled at playing forward?
16	1RV20IS018	G S YASH KEERTHAN	
17	1RV20IS019	HITESH BELEKERI	
18	1RV20IS020	KARTHIK PAI	
19	1RV20IS021	KARTIKAY	
20	1RV20IS022	KEERTHANA D M	
21	1RV20IS023	M S SANDEEP KAMATH	5 a A total amount of Rs.1500 is to be distributed to 3 poor students A, B, C of a class. In how many ways the distribution can be made in multiples of 100. (i) If every one of these must get at least Rs.300? (ii) If A must get at least Rs.500, and B and C must get at least Rs.400 each? b. Establish the validity of the argument; $p \rightarrow q$ $q \rightarrow (r \wedge s)$ $\neg r \rightarrow (\neg t \vee u)$ $p \wedge t$ $\therefore u$
22	1RV20IS024	MANU S RAO	
23	1RV20IS026	NISARGA V	
24	1RV20IS027	NISHANTH S	
25	1RV20IS028	OMKAR KABBUR	
26	1RV20IS029	PANKAJ	
27	1RV20IS030	PARTHIV PANICKER	6a. A message is made up of 12 different symbols and is to be transmitted through a communication channel. In addition to the 12 symbols, the transmitter will also send a total of 45 (blank) spaces between the symbols, with at least 3 spaces between each pair of consecutive symbols. In how many ways can the transmitter send such a message? b. Suppose now there are three married couples(A-F) and that A, B, and C are females. We want to arrange the six people around the table so that sexes alternate. (arrangements are considered identical if one can beobtained from the other by rotation.). Explain your answer.
28	1RV20IS031	PHANINDRA B N	
29	1RV20IS032	PRAJWAL N J	
30	1RV20IS033	PRAKHAR JAJU	
31	1RV20IS034	PRATHAM AGARWAL	7a. Morgan is a lead actor in a new movie. She needs to shoot a scene in the morning in studio A and an afternoon scene in studio C. She looks at the map and finds that there is no direct route from studio A to studio C. Studio B is located between studios A and C.
32	1RV20IS035	PRITISH RAJ	

33	1RV20IS036	PULKIT GARG	Morgan's friends Brad and Jennifer are shooting a movie in studio B. There are three roads, say A1, A2,and A3, from studio A to studio B and four roads, say B1, B2,B3, and B4, from studio B to studio C. In how many ways can Morgan go from studio A to studio C and have lunch with Brad and Jennifer at Studio B? b. A committee of 12 is to be selected from 10 men 10 women. In how many ways can the selection be carried out if (i) there are no restrictions? (b) there must be 6 men and 6 women? (iii) there must be an even number of women? (iv) there must be more women than men? (v) there must be at least 8 men?
34	1RV20IS038	RAKSHITH DATTATRAYA HEGDE	
35	1RV20IS039	RIYA KAUR	
36	1RV20IS040	ROHANKUMAR MUDHOL	
37	1RV20IS041	SAMEEKSHA KESHAV	
38	1RV20IS042	SANGYA MEDHAVI SHREE GOYAL	
39	1RV20IS043	SANTOSH VISHWANATHAN	
40	1RV20IS045	SHANKAR TEJASVI	If finite set A has n elements then find (i) number of anti-symmetric relations on A. (ii) number of relations on A that are both reflexive and symmetric. Using mathematical induction show that for every n $\in Z^+$ where n $\geq$14, n can be written as a sum of 3's and/or 8's. for all positive integers n. A survey of 500 TV watchers produced the following information:285 watch football games, 195 watch hockey games, 115 watch basketball games, 45 watch football & basketball games, 70 watch football & hockey games, 50 watch hockey & basket ball games& 50 do not watch any of the 3 kind games (a) How many people in the survey watch all 3 kinds of games? (b) How many pe4ople watch exactly one of the sports?
41	1RV20IS046	SHANTANU JHA	
42	1RV20IS048	SHASHANK S J	
43	1RV20IS049	SHASHANK V	
44	1RV20IS050	SHASHI RANJAN	
45	1RV20IS051	SHREENIDHI T L	
46	1RV20IS052	SHREEYA AGARWAL	
47	1RV20IS054	SINGAREDDY YASWANTH REDDY	
48	1RV20IS055	SUBHASH CHANDRA BOSE LAVU	
49	1RV20IS056	SUMEDHA M R	
50	1RV20IS057	TANISH MATHUR	
51	1RV20IS059	UTKARSH KHANDELWAL	

52	1RV20IS060	VARNIT SHREE	Define S(m,n) - Stirling number of the second kind. Find S(7,5) Explain the pigeonhole principle. Show that if five points are selected from interior of an equilateral triangle ABC (AB=1), then there will be at least 2 points having distance between them less than 1/2 If G be the set of real numbers not equal to -1 and * on G be defined by a * b = a + b + ab, for a, b∈G, then show that (G, *) is an abelian group.
53	1RV20IS061	VIGNESH KUMAR S	
54	1RV20IS062	YASH AGRAWAL	
55	1RV20IS063	YASHWANTH KUMAR C	
56	1RV20IS064	YUVARAJ TUKARAM RAYAMANE	
57	1RV20IS065	AMISH RAJ GUPTA	
58	1RV20IS066	CHETNA KUMARI	
59	1RV20IS067	KANUPRIYA ANAND	
60	1RV20IS068	RAKSHA K SWAMY	State and prove the Lagrange's theorem. Let f:(ZxZ,⊕) →(Z,+) be the function defined by f(x,y) = x-y (where (ZXZ,⊕) is a group & ⊕ is defined as (a,b)⊕(c,d) = (a+c,b+d) & (Z,+) is a group of integers under ordinary addition). Prove that f is homomorphism onto Z. The generator matrix for an encoding function E: $Z_2^3 \rightarrow Z_2^6$ is given by $G = \begin{bmatrix} 1 & 0 & 0 & 1 & 1 & 0 \\ 0 & 1 & 0 & 0 & 1 & 1 \\ 0 & 0 & 1 & 1 & 0 & 1 \end{bmatrix}$ i) Find the code words assigned to 110 and 010 ii) Obtain the associated parity-check matrix. For the encoding function E:$Z_2^2 \rightarrow Z_2^5$ defined by E(00)=00001,E(01)=01010 E(10)=10100 and E(11)=11111,find the minimum distance between the code words. Indicate the error -detecting and error- correcting capabilities of each code
61	1RV20IS069	MAYANK SOMANI	
62	1RV21IS400	ABHISHEK R	
63	1RV21IS401	BHARGAVI B V	
64	1RV21IS402	PRAMOD J	
65	1RV21IS404	VAIBHAV VERNEKAR	
66	1RV19IS034	NISHANTH RAO	

Department of Information Science and Engineering				
RV College of Engineering® , Bangalore				
2020-21		Assignment List		
Course Name: Service Oriented Architecture (18MSE1A1)				Code: 18MSE1A1
Group No	USN	NAME	ASSIGNMENT TITLE	DESCRIPTION

1	1RV19SSE16	Sahana Raikar	SOA -Importance of model	**TechnologiesUsed:** **Front End:** React JS **Back End:** Java with Postgress DB **Tools:** IDE: IntelliJ **Platform:** Cent OS, Linux **Youtube content Creation: Tool:** Camtesia Studio
	1RV19SSE03	Anupama C V		
2	1RV19SSE09	Karthik Vaas	Front End tools	
	1RV19SSE07	Fameeda Roohi		
3	1RV19SSE13	Nithin Srivatsa	Business Case for SOA	
	1RV19SSE14	Prathiba K C		
4	1RV19SSE02	Aishwarya S	Services ion SOA	
	1RV19SSE18	Yashaswini H C		
5	1RV19SSE12	Nadine V Alexadrine	Service Enablement and Service Integration	
	1RV17SSE17	Vagmi Acharya		
6	1RV19SSE08	Gaurav Dhingra	SOA Big data and AWS & its impact on library management system	
	1RV19SSE05	Bharat M S		
7	1RV19SSE11	Monisha K Naik	Technologies used and conclusion	
	1RV19SSE10	Manasa Chandrashekar		
	1RV19SSE17	Sahana Yoganand		
8	1RV19SSE04	Anusha D	Implementation, Testing and report consolidation	
	1RV19SSE15	Sachin Prakash		
	1RV19SSE06	Deepika R		

Software Engineering – Project Implementation 2020-21

1	1RV20IS001	ABDU REHAMAN PASHA S	Sign to speech software for differently abled
2	1RV20IS003	ADITYA GEHLAWAT	Fitness management system
3	1RV20IS004	ADITYA KAMARTHI	Sports Department Management System
4	1RV20IS005	AFFAN AHMED	Second Hand Book Trading System
5	1RV20IS007	ANANYA G	ISE Research Centre Management
6	1RV20IS008	ANKUSH KALSOTRA	Second Hand Book Trading System
7	1RV20IS009	ANUSHA JAIN	ISE Research Centre Management
8	1RV20IS010	ANUSHKA JINDAL	Grievance Redressal System
9	1RV20IS011	ARPIT VERMA	Sports Department Management System
10	1RV20IS012	ARYAN WANI	Grievance Redressal System

11	1RV20IS013	B VARSHITHA	ISE Research Centre Management
12	1RV20IS014	BOORLAGADDA MOHIT M	Asset Management System
13	1RV20IS015	CHIRAG S	Asset Management System
14	1RV20IS016	DHISHA S BABU	Fitness management system
15	1RV20IS017	DILEEP SHARMA	Sign to speech software for differently abled
16	1RV20IS018	G S YASH KEERTHAN	sports Department Management System
17	1RV20IS019	HITESH BELEKERI	Asset Management System
18	1RV20IS020	KARTHIK PAI	Sign to speech software for differently abled
19	1RV20IS021	KARTIKAY	Second Hand Book Trading System
20	1RV20IS067	KANUPRIYA ANAND	Grievance Redressal System
21	1RV21IS400	ABHISHEK R	lab management system
22	1RV21IS401	BHARGAVI B V	lab management system
23	1RV20IS022	KEERTHANA D M	Canteen Food Ordering System
24	1RV20IS023	M S SANDEEP KAMATH	Student Assistance System
25	1RV20IS024	MANU S RAO	Hostel Mess Card Automation System
26	1RV20IS026	NISARGA V	Canteen Food Ordering System
27	1RV20IS027	NISHANTH S	Hostel Mess Card Automation System
28	1RV20IS028	OMKAR KABBUR	Attendance management system
29	1RV20IS029	PANKAJ	NSAR
30	1RV20IS030	PARTHIV PANICKER	Real Estate Management System
31	1RV20IS031	PHANINDRA B N	Hostel Mess Card Automation System
32	1RV20IS032	PRAJWAL N J	Seminar Hall Management System
33	1RV20IS033	PRAKHAR JAJU	Real Estate Management System
34	1RV20IS034	PRATHAM AGARWAL	Attendance Management System
35	1RV20IS035	PRITISH RAJ	College Bus Management System
36	1RV20IS036	PULKIT GARG	Student achievement management system
37	1RV20IS038	RAKSHITH D HEGDE	Student Assistance System
38	1RV20IS039	RIYA KAUR	College Bus Management System
39	1RV20IS040	ROHANKUMAR MUDHOL	Student achievement management system
40	1RV20IS041	SAMEEKSHA KESHAV	Seminar Hall Management System
41	1RV20IS042	SANGYA MEDHAVI S G	College Bus Management System
42	1RV20IS043	SANTOSH V	Canteen Food Ordering System
43	1RV20IS069	MAYANK SOMANI	Real Estate Management System
44	1RV21IS402	PRAMOD J	Not Assigned
45	1RV20IS044	SARTHAK KUMAR	Not Assigned
46	1RV20IS045	SHANKAR TEJASVI	Car Showroom Portal
47	1RV20IS046	SHANTANU JHA	Quiz Portal
48	1RV20IS048	SHASHANK S J	Faculty Assistance System
49	1RV20IS049	SHASHANK V	Placement Management and Analysis System
50	1RV20IS050	SHASHI RANJAN	Car Showroom Portal

51	1RV20IS051	SHREENIDHI T L	Car Showroom Portal
52	1RV20IS052	SHREEYA AGARWAL	Quiz Portal
53	1RV20IS054	SINGAREDDY YASWANTH R	Center of Competence management system
54	1RV20IS055	SUBHASH CHANDRA BOSE L	Department managemnet system
55	1RV20IS056	SUMEDHA M R	Faculty Assistance System
56	1RV20IS057	TANISH MATHUR	RVCE club management system
57	1RV20IS058	THASMAYI C	Quiz Portal
58	1RV20IS059	UTKARSH KHANDELWAL	Department managemnet system
59	1RV20IS060	VARNIT SHREE	Rvce Club management system
60	1RV20IS061	VIGNESH KUMAR S	Placement Management and Analysis System
61	1RV20IS062	YASH AGRAWAL	Fitness Center Management System
62	1RV20IS063	YASHWANTH KUMAR C	Placement Management and Analysis System
63	1RV20IS064	YUVARAJ TUKARAM R	Fitness Center Management System
64	1RV20IS065	AMISH RAJ GUPTA	Fitness Center Management System
65	1RV20IS066	CHETNA KUMARI	Result Management System
66	1RV20IS068	RAKSHA K SWAMY	Department managemnet system
67	1RV21IS404	VAIBHAV VERNEKAR	Center of Competence management system

List of Students (2018-19) – ODD- Enterprise Architecture

SLNO	USN	NAME	Assignment Topics
1	1RV15IS026	KRATI SHRIVASTAVA	Home Automation System
2	1RV15IS029	MALA M	Library Management System
3	1RV15IS034	NIKHIL P	Hospital Management System
4	1RV15IS037	NITHISH D S	Supply chain management
5	1RV15IS042	RAGHAVENDRA P NAKOD	University Portfolio
6	1RV15IS046	RISHABH VERMA	Student Management Systems
7	1RV15IS049	SALMAN KHAN	Publications Management systems
8	1RV15IS050	SHASHIDHAR DODAMANI	Research Presentations database
9	1RV15IS059	TEJA DURGAPPA MOGER	Conference management system
10	1RV15IS060	VARSHINI M	Counselor Management System
11	1RV15IS061	VINAYAK S	Home Automation System
12	1RV15IS065	VISHWARAJ JAISWAL	Library Management System
13	1RV15IS066	SAMIKA RASTOGI	Hospital Management System
14	1RV16IS403	CHANDANA T S	Supply chain management
15	1RV16IS406	MEGHANA R	University Portfolio
16	1RV16IS407	NIKHILESH KUMAR	Student Management Systems

17	1RV16IS411	SWATI ACHARYA	Publications Management systems
18	1RV16IS412	ASHIKA	Research Presentations database
19	1RV16IS413	YALLANDA GOYAL	Conference management system

Department of Information Science and Engineering

RV College of Engineering® , Bangalore

AY: 2019-20 — **Assignment List**

Course Name: Service Oriented Architecture (18MSE1A1) — **Code: 18MSE1A1**

Group No	USN	NAME	ASSIGNMENT TITLE	DESCRIPTION
1	1RV19SSE16	Sahana Raikar	SOA - Importance of model	**TechnologiesUsed:** **Front End:** React JS **Back End:** Java with Postgress DB **Tools:** IDE: IntelliJ **Platform:** Cent OS, Linux **Youtube content Creation:** **Tool:** Camtesia Studio
	1RV19SSE03	Anupama C V		
2	1RV19SSE09	Karthik Vaas	Front End tools	
	1RV19SSE07	Fameeda Roohi		
3	1RV19SSE13	Nithin Srivatsa	Business Case for SOA	
	1RV19SSE14	Prathiba K C		
4	1RV19SSE02	Aishwarya S	Services ion SOA	
	1RV19SSE18	Yashaswini H C		
5	1RV19SSE12	Nadine V Alexadrine	Service Enablement and Service Integration	
	1RV17SSE17	Vagmi Acharya		
6	1RV19SSE08	Gaurav Dhingra	SOA Big data and AWS & its impact on library management system	
	1RV19SSE05	Bharat M S		
7	1RV19SSE11	Monisha K Naik	Technologies used and conclusion	
	1RV19SSE10	Manasa Chandrashekar		
	1RV19SSE17	Sahana Yoganand		
8	1RV19SSE04	Anusha D	Implementation, Testing and report consolidation	
	1RV19SSE15	Sachin Prakash		
	1RV19SSE06	Deepika R		

List of Students (2019-20) – ODD- Cryptography and Network Security

SLNO	USN	NAME	EL Topics
1	1RV15IS063	YASHWANTH R	Hill Cipher for 3 × 3 matrix
2	1RV16IS002	ABHINAV UPADHYA	Implementing s-box/p-box in Triple DES algorithm
3	1RV16IS003	ADITYA S SREERAMA	Implement Rotar Cipher
4	1RV16IS004	A AKSHAY RAJA REDDY	Implement Distance vector algorithm
5	1RV16IS005	AMBERMANI PRATAP SINGH	Implement Euclidean Algorithm for encrypting plain text.
6	1RV16IS006	AV AKHIL KRISHNA	Implement Four Function Calculator in GF(24) & GF(28).
7	1RV16IS007	ANAGHA G	Encrypt and decrypt in 4-bit cipher feedback mode using additive modulo 256.
8	1RV16IS008	ANMOL GABA	Encrypt and decrypt in 4-bit cipher feedback affine modulo 256.
9	1RV16IS009	ARJUN ACHARYA	Encrypt and decrypt in cipher block chaining mode using one of the following ciphers: i) affine modulo 256, ii) Hill modulo 256.
10	1RV16IS011	BHOOMIKA P	Cryptographic Infrastructure and Standards
11	1RV16IS012	CHIRAG CHHABRA	High-confidence Software and Systems (HCSS)
12	1RV16IS013	DEBASIS MAHAPATRA	Authentication
13	1RV16IS014	DEEPIKA H C	High-Speed Security Solutions
14	1RV16IS015	DOST ARORA	Secure Wireless Multimedia
15	1RV16IS018	JIBRAAN MUKHTIAR	Technical Security
16	1RV16IS019	K ISMAIL ASHISH	Attack, Sensing, Warning, and Response
17	1RV16IS023	KHUSH G CHANDAWAT	Trusted Computing
18	1RV16IS024	KUMAR ABHIJEET	Encrypt and decrypt in 4-bit cipher feedback mode using additive modulo 256.
19	1RV16IS025	KUNAL BHANDARI	Hill Cipher for 3 × 3 matrix
20	1RV16IS026	L PAVAN VENKAT	Implementing s-box/p-box in Triple DES algorithm
21	1RV16IS028	LAV RAM GABRI	Implement Rotar Cipher
22	1RV16IS029	MAYANK AGRAWAL	Implement Distance vector algorithm

23	1RV16IS030	NAGASHREYAS S P	Implement Euclidean Algorithm for encrypting plain text.
24	1RV16IS031	NIDHI GIRISH	Implement Four Function Calculator in GF(24) & GF(28).
25	1RV16IS032	NIKHILA DHARMAJI	Encrypt and decrypt in 4-bit cipher feedback mode using additive modulo 256.
26	1RV16IS033	PALASH BHARADIA	Encrypt and decrypt in 4-bit cipher feedback affine modulo 256.
27	1RV16IS034	PRANAV B	Encrypt and decrypt in cipher block chaining mode using one of the following ciphers: i) affine modulo 256, ii) Hill modulo 256.
28	1RV16IS035	PRAVEEN A	Cryptographic Infrastructure and Standards
29	1RV16IS036	PREETHAM T P	High-confidence Software and Systems (HCSS)
30	1RV16IS038	RAHUL SINGH KUSHWAHA	Authentication
31	1RV16IS039	RAHUL SUBRAMANIAM	High-Speed Security Solutions
32	1RV16IS040	RAJ V GARAG	Secure Wireless Multimedia
33	1RV16IS041	RISHABH PRATAP SINGH	Technical Security
34	1RV16IS043	SAMARTH MAGANAHALLI S	Attack, Sensing, Warning, and Response
35	1RV16IS044	SAMPATH NAYAK	Trusted Computing
36	1RV16IS046	SANJITHA GOWDA	Encrypt and decrypt in 4-bit cipher feedback mode using additive modulo 256.
37	1RV16IS047	SANKETH HARNOORKAR	Hill Cipher for 3 × 3 matrix
38	1RV16IS048	SHAILESH RAO KODIKAL	Implementing s-box/p-box in Triple DES algorithm
39	1RV16IS049	SHAKTHY SHIVAKUMAR	Implement Rotar Cipher
40	1RV16IS050	SHASHANK RAVI BASARIHALLI	Implement Distance vector algorithm
41	1RV16IS051	SHEIKH ATHAR	Implement Euclidean Algorithm for encrypting plain text.
42	1RV16IS052	SHIVAM	Implement Four Function Calculator in GF(24) & GF(28).
43	1RV16IS053	SHIVAM KALHANS	Encrypt and decrypt in 4-bit cipher feedback mode using additive modulo 256.
44	1RV16IS054	SRUJAN K S	Encrypt and decrypt in 4-bit cipher feedback affine modulo 256.

45	1RV16IS055	SUHAS H R	Encrypt and decrypt in cipher block chaining mode using one of the following ciphers: i) affine modulo 256, ii) Hill modulo 256.
46	1RV16IS057	SUNNY KHATRI	Cryptographic Infrastructure and Standards
47	1RV16IS058	SWAPNIL ROY	High-confidence Software and Systems (HCSS)
48	1RV16IS059	VAISHNAV RAJNEESH GAURAV R	Authentication
49	1RV16IS060	VIJAYASHREE RAGHUVEER SHETTY	High-Speed Security Solutions
50	1RV16IS061	VISHAL T	Secure Wireless Multimedia
51	1RV16IS062	YASH AGRAWAL	Technical Security
52	1RV16IS063	YOGITA MALLIKARJUN P	Attack, Sensing, Warning, and Response
53	1RV16IS064	ARNAB JANA	Trusted Computing
54	1RV16IS065	AYUSH KUMAR	Encrypt and decrypt in 4-bit cipher feedback mode using additive modulo 256.
55	1RV16IS066	CHANDAN S	Hill Cipher for 3 × 3 matrix
56	1RV16IS067	NITISH KUMAR GARG	Implementing s-box/p-box in Triple DES algorithm
57	1RV16IS068	PERURU VANAPARTHI SAI LIKHITHA	Implement Rotar Cipher
58	1RV16IS069	MOHAMMAD TAWQEER	Implement Distance vector algorithm
59	1RV16IS070	AREEBA AFAQ	Implement Euclidean Algorithm for encrypting plain text.
60	1RV16IS405	MANGALA GOWRI	Implement Four Function Calculator in GF(24) & GF(28).
61	1RV17IS400	D J MANOJ	Encrypt and decrypt in 4-bit cipher feedback mode using additive modulo 256.
62	1RV17IS403	KALIFKHAN SITNUR	Encrypt and decrypt in 4-bit cipher feedback affine modulo 256.
63	1RV17IS404	LATA NAIK	Encrypt and decrypt in cipher block chaining mode using one of the following ciphers: i) affine modulo 256, ii) Hill modulo 256.
64	1RV17IS406	OMKAR VITHAL GARDE	Cryptographic Infrastructure and Standards
65	1RV17IS409	SHRIHARI S KULKARNI	High-confidence Software and Systems (HCSS)
66	1RV17IS410	SURAJ S	Authentication

List of Students (2018-19) – Even Semester- Information Security

Sl.No	USN	Name	Assignment Topic
1	1RV15IS001	AASHISH JAISIMHA	Developing a Network Monitoring System
2	1RV15IS009	ANANYA V	Demonstrate the NMAP Application to
3	1RV15IS012	ANUSHTUTHI P	Scan a remote host in the network for open ports
4	1RV15IS014	CHETHAN D	Identify the OS & version on a host in network
5	1RV15IS015	CHETHANKUMAR M	Try various types of attacks (FIN attack, SYN Flood, Smurf, Fraggle etc
6	1RV15IS017	DHANUSH RAJ	Practical demo of vulnerabilities and how to overcome:
7	1RV15IS019	HARISH A	Buffer overflow
8	1RV15IS020	HEMANTH SHETTY M	Integer overflow
9	1RV15IS021	HINDUPUR ROHITRAJ	File I/O
10	1RV15IS024	K R NAVANEETH	Demonstrating the use of Wireshark to
11	1RV15IS026	KRATI SHRIVASTAVA	Examine HTTP Request and Response Headers.
12	1RV15IS027	KRISHNA SRIDHAR	Capture, inspect and filter packets
13	1RV15IS028	KUCHE BHAVANI PRIYA	Sniff HTTP Post passwords via Network
14	1RV15IS030	MANVITHA T	Development of a Network packet sniffer
15	1RV15IS031	MEGHANA KISHORE MURTHY	Developing a Network Monitoring System
16	1RV15IS032	MOULIK SHARMA	Demonstrate the NMAP Application to
17	1RV15IS044	RAKSHITH R	Scan a remote host in the network for open ports
18	1RV15IS046	RISHABH VERMA	Identify the OS & version on a host in network
19	1RV15IS047	ROHITH RAVINDRA NAIK	Try various types of attacks (FIN attack, SYN Flood, Smurf, Fraggle etc
20	1RV15IS048	SAKSHAM JHAWAR	Practical demo of vulnerabilities and how to overcome:
21	1RV15IS049	SALMAN KHAN	Buffer overflow

22	1RV15IS050	SHASHIDHAR DODAMANI	Integer overflow
23	1RV15IS053	SIDDHARTHA GUPTA	File I/O
24	1RV15IS055	SUJAYEENDRA BOODUR	Demonstrating the use of Wireshark to
25	1RV15IS056	SUPREETH Y S	Examine HTTP Request and Response Headers.
26	1RV15IS058	SWAPNIL KUMAR	Capture, inspect and filter packets
27	1RV15IS062	YASHAS A N	Sniff HTTP Post passwords via Network
28	1RV15IS065	VISHWARAJ JAISWAL	Development of a Network packet sniffer
29	1RV15IS066	SAMIKA RASTOGI	Developing a Network Monitoring System
30	1RV16IS400	ARPITHA G M	Demonstrate the NMAP Application to
31	1RV16IS401	ASHIKA	Scan a remote host in the network for open ports
32	1RV16IS402	BRUNDA G R	Identify the OS & version on a host in network
33	1RV16IS404	KARTHIK KASHYAP	Try various types of attacks (FIN attack, SYN Flood, Smurf, Fraggle etc
34	1RV16IS406	MEGHANA R	Practical demo of vulnerabilities and how to overcome:
35	1RV16IS407	NIKHILESH KUMAR	Buffer overflow
36	1RV16IS408	PRAVEEN GIRISH NADUMANI	Integer overflow
37	1RV16IS411	SWATI ACHARYA	File I/O
38	1RV15IS403	GOPALKRISHNA R	Demonstrating the use of Wireshark to

COURSE: LOGIC DESIGN AND COA (18IS35) AY: 2018-19 SEM: 3rd			
SL.NO	**USN**	**NAME**	**TITLE OF ASSIGNMENT**
1	1RV18IS002	Adamyaa D.N	LED Matrix Clock using Arduino Nano and RTC DS3231
	1RV18IS006	Ananya G.M.	
	1RV18IS058	Varshini P.	
2	1RV18IS056	Tanya dinesh	Voting Machine with Arduino
	1RV18IS047	Sai praneeth A.	

	1RV18IS061	Vishal Reddy	
3	1RV18IS024	Mahesh P	Frequency Jammer/Generator
	1RV18IS059	Vineeth D K	
	1RV18IS018	K S Harshavardhan	
4	1RV18IS050	Sneha vanjire	Gas Detector module
	1RV18IS051	Soundarya R	
	1RV18IS049	Sinchana hegde	
5	1RV18IS004	Aditya B S	Water level controller
	1RV18IS041	Raunak R Kolle	
	1RV18IS053	Suhaas N	
6	1RV18IS044	Dharshika S.	Obstacle detector using ultrasonic sensor
	1RV18IS052	Sree lakshmi Vasishta	
	1RV18IS017	Jigisha Kamal	
7	1RV18IS029	Parakh Shah	Arduino Calculator
	1RV18IS030	Piyush Somani	
	1RV18IS031	Poorvi Seth	
8	1RV18IS007	Ankit Kumar Singh	Arduino Calculator
	1RV18IS016	Hasifa A S	
	1RV18IS048	Sanjana S	
9	1RV18IS034	PRAKHAR KANT	Obstacle avoiding robot
	1RV18IS040	RAMAN KUMAR	
	1RV18IS035	RAGHAV TAORI	
10	1RV18IS003	Aditi Dora	LED Morse code generator using Arduino
	1RV18IS025	Moulya S	
	1RV18IS032	Pragathi T R	
11	1RV18IS027	Nityam Agarwal	Object detecting vehicle for blind people
	1RV18IS028	Pankhuri Priya	
	1RV18IS046	Sahreen Sajad	

12	1RV18IS022	Maaz Afnan	Metal Detector and Implementation of BUS using TINA
	1RV18IS011	Dhanush M	
13	1RV18IS009	Ayush Kumar	Automation through Microcontroller and Payment Gateway over Cloud
	1RV18IS019	K.V.Sarath kumar	
	1RV18IS020	K.A.Vaibhavi	
14	1RV18IS008	Ashutosh Agarwal	Bidirectional Visitor Counter using Arduino
	1RV18IS042	Riza Fareed	
	1RV18IS037	Rajath Venkatesh	
15	1RV18IS001	Abhiroop Saha	Arduino based Bluetooth Controlled Car
	1RV18IS063	Y.V. Sai Harsha	
	1RV18IS014	G.Teja Krishna	
16	1RV18IS015	Harikrishna V Holla	RFID based attendance register
	1RV18IS039	Ramadas K Kamat	
	1RV18IS036	Raghavendra K S	
17	1RV18IS045	Sagar Biswari	Autonomous Vehicle
	1RV18IS057	Tushar Agrawal	
18	1RV18IS054	SUSHRUT M	Adders and subtractors using ICs
	1RV18IS026	NEHAL N SHET	
	1RV18IS055	T TERRY NEWTON	
19	1RV18IS043	ROOPESH M K	Water Level Indicator
	1RV18IS013	DHRUVA K R	
	1RV18IS012	DHEERAJ SHENOY N	
20	1RV18IS064	PRANAV MAHAJAN	Measuring RPM of the rotating wheel using Arduino(Tachometer)
	1RV19IS400	Girish N M	
21	1RV18IS033	PRAGATI KUMARI	Object Detection Sensor

DEPARTMENT OF PHYSICS

This report delves into the various methods and approaches utilized by the department of Physics in experiential learning, such as case studies based on SDGs, group assignments, project-based learning, and simulations. It examines how these techniques can enhance student engagement, promote critical thinking, communication, and problem-solving skills, and ultimately lead to improved learning outcomes. Furthermore, the report addresses the challenges and opportunities associated with implementing experiential learning initiatives. By highlighting the benefits and addressing the practical considerations of experiential learning, this report aims to ultimately empower students to become active, engaged, and skilled contributors to their respective fields.

Table of Contents:

1. Introduction:

Experiential learning is a powerful pedagogical approach that stresses on hands-on, immersive experiences as a means of facilitating deeper understanding, critical thinking and the development of practical skills. By engaging students in real-world scenarios, problem-solving activities, and collaborative projects, experiential learning fosters a more active and engaged learning environment, enabling students to apply their knowledge in meaningful contexts. Concepts of Physics are ubiquitous in engineering and therefore present an excellent opportunity to reinforce the fundamental concepts through EL projects. Since the physics courses are taught in the first year of under-graduation, the emphasis is on helping students bridge the fundamentals of science with engineering concepts. Furthermore, it also paves way for expanding students' problem-solving skills by focussing the EL projects on societal developmental goals.

2. Theoretical Framework of Experiential Learning:

Since the students have no prior exposure or experience in executing EL projects, it is important that a strong theoretical framework is established for effective and efficient execution. At the outset, the primary focus of EL projects is to not only reinforce the fundamental principles of various courses, but also encourage a student's ability to work as part of a team. While choosing a particular EL topic a student team has to take into cognizance various factors such as its relevance to the society, its bearing to the courses taught and more importantly the level of complexity. This exercise of choosing an EL project is entirely student centric; as students are encouraged to refer to various credible sources (internet, journals, research articles, etc.) to come up with suitable problem statements. Also, since the physics course have a laboratory component, certain experiments are designating for experiential learning; wherein the students are expected to execute the outcomes under minimal supervision. This unique blend of student centric learning and problem-based teaching are the theoretical underpinnings that form the bedrock of curriculum design and activities that prioritize student engagement, critical thinking, and their ability to bridge science and engineering.

3. Types and Approaches of Experiential Learning

In addition to regular lectures, faculty of the Physics department employ different in-class activities that ultimately blur the lines between the teacher and student. The aim is to create an environment in the classroom wherein the interactions are holistic in nature and help students take an active part in delivery of the curriculum. This is done through various student centric activities like think-pair-share, flipped classroom, case-studies, use of multimedia wherever appropriate, etc. In order to push the students out of their comfort zones the teams and topics chosen as part of their EL projects have to be interdisciplinary in nature. This helps them to learn and work in different environments.

Years wise Broad Topics

2023-24		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1		Automation
2		Battery technology
3		Quantum Technologies
4		Smart materials
5		E mobility
6		Energy
2022-23		
7	Sensor applications	Internet of Things
8	e-mobility	Quantum computation
9	Robotics	Mechanical modelling

10	Structural health monitoring system	Internet of things
11	Quantum key distribution	Cloud computing
12	Quantum Cryptography	Water management system
2021-22		
13	Nano particle and its applications	Sustainable energy materials
14	e-vehicles	Energy storage devices
15	Wearable electronics	Quantum sensors
16	E mobility	Battery management system using different tools
17	Sensor technology (materials and devices)	Energy
2020-21		
18	Autonomous vehicle	e-mobility
19	Radioactivity	Environment Radio activity
20	Battery management systems	Smart technologies
21	Smart materials	Optics
22	Energy production plants	Smart materials and applications
2019-20		
23	Computational Physics	Simulation of experiments using open source software – Dielectrics
24	Optics - Laser	Energy
25	RFID applications	Quantum entanglement
26	Electronics	Smart materials
27	Autonomous vehicles	Solar panel
28	Structural quality analysis	Green vehicles
2018-19		
29	Computational Physics	e-mobility
30	Space applications	Sensors
31	Simulation	Applications of Quantum Mechanics
32	IOT and its applications	Laser and its applications
33	Biosensors	Optical fibers for different applications
34	Energy	Electronspinning

4. Benefits of Experiential Learning with respect to your department:

In this section we report the benefits of experiential learning for students with respect to department of Physics.

Creating Relevance: Experiential learning creates a sense of relevance for students by connecting the material to real-world experiences and contexts, rather than just abstract concepts. More often than not students often ask the relevance of a particular topic towards their field of interest, through experiential learning it is possible to make the students understand the concepts veracity to real world applications. It also helps students to reflect on their experiences, analyse the outcomes, and make personal connections to the material, leading to deeper understanding.

Stimulating creative problem-solving: Experiential learning provides opportunities for students to engage their creativity and problem-solving skills to find solutions to challenges they face. Experiential Learning fosters out of the box thinking in students.

Learning from mistakes: Experiential learning embraces the value of making mistakes, as students can learn from the negative outcomes and adjust their approaches accordingly. A vital and often underrated trait, it gives students the confidence and faith in their ability to deliver. This confidence translates to other parts of their personality like leadership, communication, and self-motivation.

Accelerating learning: The hands-on, practice-based nature of experiential learning strengthens neural connections and improves retention, leading to faster and more effective learning.

5. Challenges in Implementing Experiential Learning with respect to your department:

In this section we present the various challenges faced during the implementation:
Time Constraint: Since a semester lasts only for 4 months, time is a very crucial factor and often students do not get sufficient time to finish their projects.
Continuity of the topics: As the students' progress to higher semesters, there is no continuation of the work on the EL.
Seriousness and Work Ethic: At times students lack the seriousness during the execution of the EL projects leading to plagiarism and repetition of projects.
Evaluation and Assessment: Based on previous assessments, there is a need for better rubrics and evaluation criteria. Furthermore, a more comprehensive system to assess individual students' contribution is required.

6. Case Studies and Examples:

This section presents real-world case studies and examples of successful experiential learning programs.

Evaluation rubrics

PHASE - 1		
Survey on topic chosen and study Students are required to prepare one/two slides of the topic chosen and explain to faculty		
• Introduction to topic (motivation to choose the topic) • Literature review or state of art	15 marks	
• Understanding of the topic and approach • Linking the sub topic to main topic. • References	15 marks	Total 30 marks

PHASE - 2		
Execution of EL by any of the following methods. • PPT presentation/seminar • Working model/ prototype. • Development of innovative /virtual experiment • Poster presentation • Writing white paper in new technologies • Development of and algorithm using Python /R programming • Team work (Communication and presentation skills)	08 marks 08 marks	Total 30 marks
• Consolidation of information and effective report writing (perspectives, principles and practices)	07 marks	
• Discussion/inference • Conclusion (should contain the key results /inference, key conclusion/ outcome and future scope of work)	07 marks	

Case Study – 1 (Complete Process report with Evaluation rubrics)

Quantum Thermal Sensor

In this case the students have attempted to build a quantum thermal sensor by harnessing the Planck's equilibrium spectrum for a black body emitting thermal radiation. The design consists of a gas chamber attached to a cryogenic unit which could not be implemented due to cost and logistical issues. The radiation

is then passed through a Bragg reflector setup, which consists of 4 partially reflecting mirrors and a lens. All the mirrors are inclined at an angle of 45 degrees with respect to the lens It fives rise to a delicate set of interference patterns that is super sensitive to the wavelength of the light, which in turn is sensitive to the temperature of the emitter gas.

The students set up the Bragg reflectors in the physics lab and got the above 3 bands (distorted in the image). Due to lack of active cryogenic system in the lab, only the optical part was implemented.

Case Study – 2 (Complete Process report with Evaluation rubrics)

Manipulating QUBITS using Rabi oscillations

In this study the students have studied the interaction of light with a two level atomic system which can lead to a periodic exchange of energy between the electromagnetic field and the two level system. This in turn is showed to lead to an oscillation of the population of the two levels called Rabi Oscillations. Rabi oscillations provide a way to manipulate and control the quantum state of a system. By carefully designing and applying external fields with specific frequencies and durations, researchers can control the probabilities of finding the system in different quantum states. The students have written a simple program that simulates the Rabi oscillations as their Experiential learning.

2022-23

Evaluation rubrics

PHASE - 1		
Survey on topic chosen and study Students are required to prepare one/two slides of the topic chosen and explain to faculty		
• Introduction to topic (motivation to choose the topic) • Literature review or state of art	15 marks	

• Understanding of the topic and approach • Linking the sub topic to main topic. • References	15 marks	Total 30 marks

PHASE - 2		
Execution of EL by any of the following methods. • PPT presentation/seminar • Working model/ prototype. • Development of innovative /virtual experiment • Poster presentation • Writing white paper in new technologies • Development of and algorithm using Python /R programming • Team work (Communication and presentation skills)	08 marks 08 marks	Total 30 marks
• Consolidation of information and effective report writing (perspectives, principles and practices)	07 marks	
• Discussion/inference • Conclusion (should contain the key results /inference, key conclusion/ outcome and future scope of work)	07 marks	

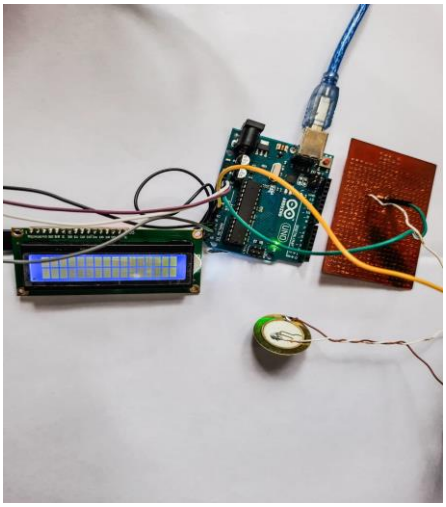
Case Study – 1 (Complete Process report with Evaluation rubrics)

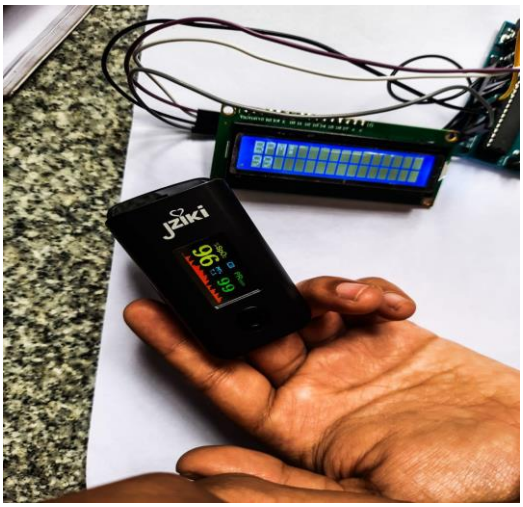
Design of Piezoelectric material-based heart rate measuring sensor system.

In this Experiential Learning study, students have designed a model which is cost effective and more convenient to use, as an alternative to complex electrocardiograms. This model is very helpful in early diagnosis of heart problems such as heart attack and can be used as a preliminary testing device in case of any symptoms such as dizziness, dyspnoea or heart pain. It can also detect severe heart problems such as Arrhythmia and Atrial fibrillation commonly known as Afib or Af. With this model the sole purpose is to make the use of heart rate monitoring devices more pocket friendly and simple and make the society better prepared for heart problems.

The model prepared using piezoelectric sensor, an Arduino Uno microcontroller, a 10KΩ resistor, LCD screen and a few jumper wires. The blood circulation in the radial artery causes slight deformations in the piezoelectric sensor placed under the wrist. These deformations are converted to electrical signals and are passed on to the Arduino microcontroller, where the BPM (Beats Per Minute) of the person is calculated and this BPM is displayed on the LCD screen. The MATLAB software is used to plot the graph of the voltage variations caused by deformations, and the plotted graph resembles the ECG graph obtained by conventional heart rate monitoring devices. If the BPM falls out of the ideal range (60-100), "Abnormal Heart Rate" is displayed on the LCD screen.

The values obtained from this model were compared with an oximeter to check for the accuracy and the results proved that the model is quite accurate and could be used as an alternative to conventional heart rate indicating devices.





ARDUINO CODE USED IN THE MODEL:

```
#include<LiquidCrystal_I2C.h>
#include<Wire.h>
int bpm;
int sumBeat=0;
int cnt=0;
LiquidCrystal_I2C lcd(0x27, 16, 2);
void setup()
{
Serial.begin(9600);
lcd.init();
lcd.backlight();
}
void loop()
{
int beatPin=analogRead(A0);
if(beatPin>20 && beatPin<35)
```

```
{
if(cnt<15)
{
sumBeat=sumBeat+beatPin;
cnt++;
}
if(cnt==15)
{
bpm=int((sumBeat/15)*3);
Serial.print(" BPM: ");
Serial.println(bpm);
lcd.setCursor(0,0);
lcd.print("BPM: ");
lcd.setCursor(0,1);
lcd.print(bpm);
delay(1000);
lcd.clear();
}
}
if(bpm>100)
{
lcd.setCursor(0,0);
lcd.print("ABNORMAL RATE");
delay(1000);
lcd.clear();
}
}
```

2021-22

Evaluation rubrics

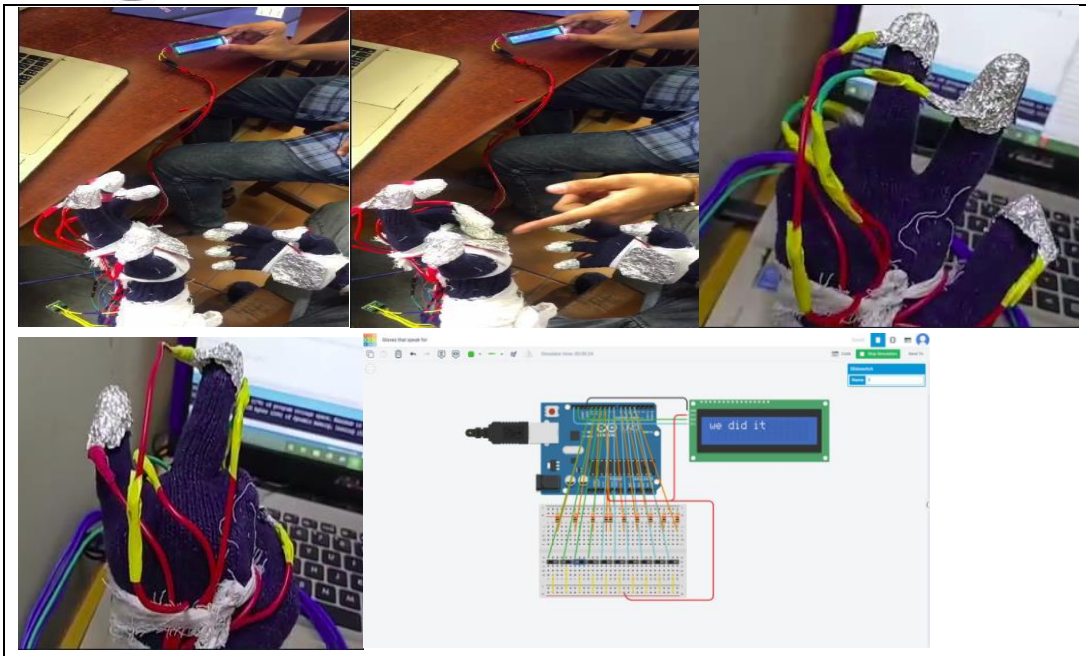
PHASE - 1		
Survey on topic chosen and study Students are required to prepare one/two slides of the topic chosen and explain to faculty		
• Introduction to topic (motivation to choose the topic) • Literature review or state of art	10 marks	Total 20 marks
• Understanding of the topic and approach • Linking the sub topic to main topic. • References	10 marks	

PHASE - 2		
Execution of EL by any of the following methods. • PPT presentation/seminar • Working model/ prototype. • Development of innovative /virtual experiment • Poster presentation • Writing white paper in new technologies • Development of and algorithm using Python /R programming • Team work (Communication and presentation skills)	05 marks 05 marks	Total 20 marks
• Consolidation of information and effective report writing (perspectives, principles and practices)	05 marks	
• Discussion/inference • Conclusion (should contain the key results /inference, key conclusion/ outcome and future scope of work)	05 marks	

Case Study – 1 (Complete Process report with Evaluation rubrics)

GLOVES THAT SPEAK FOR...

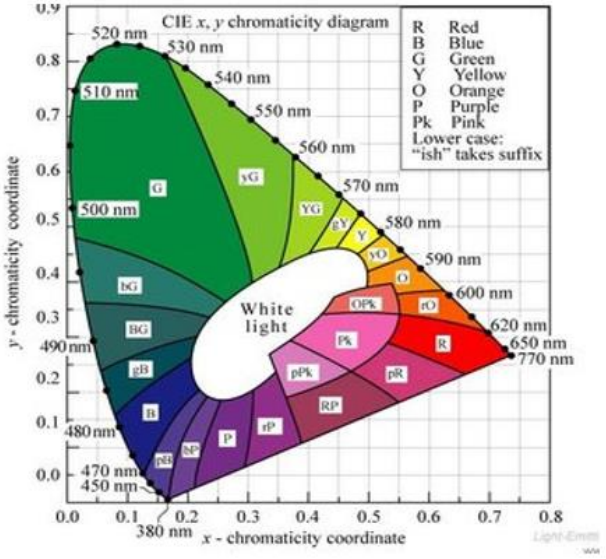
In this Experiential Learning case study, students have designed and built gloves that help mute people to communicate with others through sign language that everyone can't understand. In simple words this project converts sign language into words that are displayed on an LCD screen. The project basically works on simple opening and closing of the circuit. This glove can be worn by people who cannot speak and it can help them to communicate by translating their gestures from signs to verbal language and then displaying them with help of a LCD Screen.



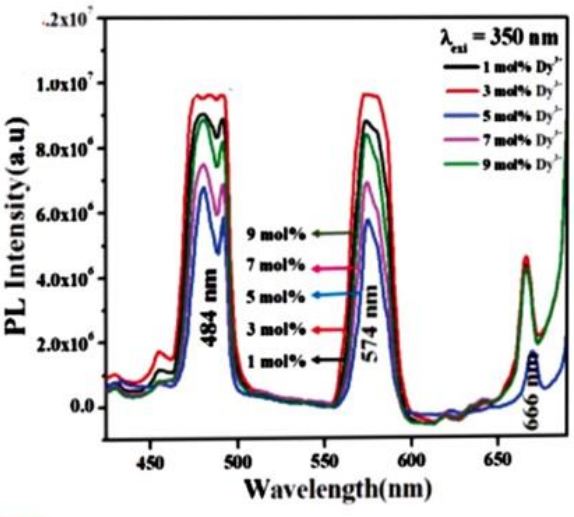
Case Study – 2 (Complete Process report with Evaluation rubrics)

Nano Particles and their Application in Luminescence

In this study, the students have made a detailed study of how nano technology has profound applications in crime detection(Using the concept of Latent fingerprints) ,Agriculture (nano-TiO2) , White Light Emitting Diode(WLED) (Dy3+ Ca2SO4). This has put the spotlight on materials.



Chromaticity Diagram



Emission spectra varying with Molar concentration of Dy3+

2020-21

Evaluation rubrics

	Marks (100)	Marks (20)
Understanding and Knowledge of study	15	3
Applying Physics Principle	20	4
Data collection in that field of study	05	1
Report	25	5
Communication Skills (Verbal + body language + voice modulation) and team work	15	3
Quality of slides	15	3
Timely submission and presentation	05	1

Case Study – 1 (Complete Process report with Evaluation rubrics)

Autonomous Vehicle

Automation in the transport industry will reduce the accidents caused by human errors drastically. The substantial change in automobile industry leading to self driving vehicles has created a safer, cleaner and a more affordable vehicle.Most self-driving systems create and maintain an internal map of their surroundings based on information obtained from a wide range of sensors, such as radar. Some autonomous vehicles use laser beams, along with other sensors, to build the internal map. Others use radar, high-powered cameras, and sonar, and maps loaded on their systems for operation. The software then processes the information obtained in real-time, traces a path, and issues instructions to the vehicle's actuators that control acceleration, braking, and steering.

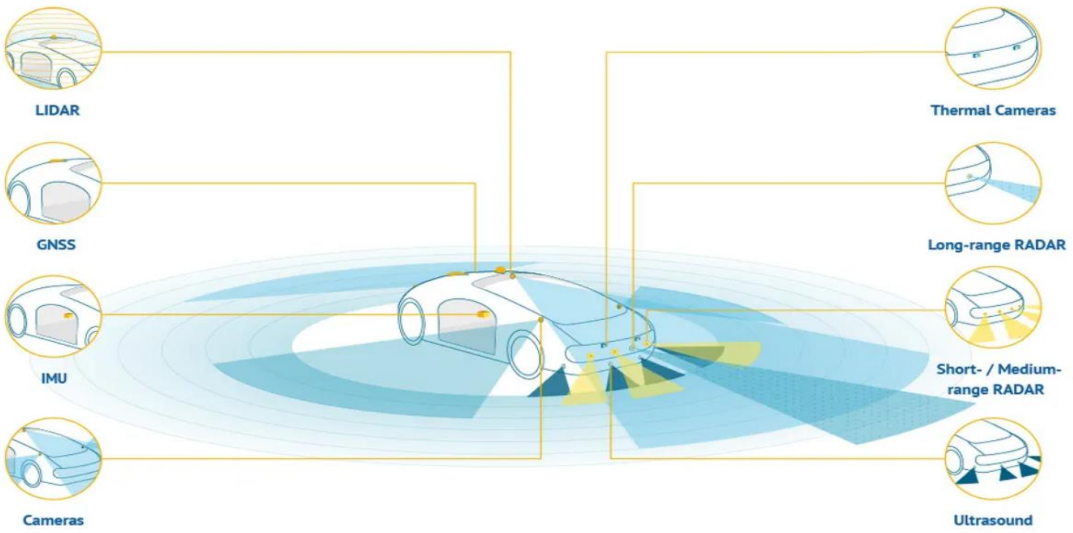


DIAGRAM REPRESENTING AN AUTONOMOUS VEHICLE WITH ITS VARIOUS COMPONENTS

In the current project, the intended vehicle is able to detect and follow a certain coloured line on the floor. Usually the line may be of black in colour on a white surface or a combination of two highly contrasted colours for precise information gathering by the sensors. Usually the collected data is sent to a processor which then directs the driving of motors but in this case, we have managed to achieve a circuit without a processor in between.

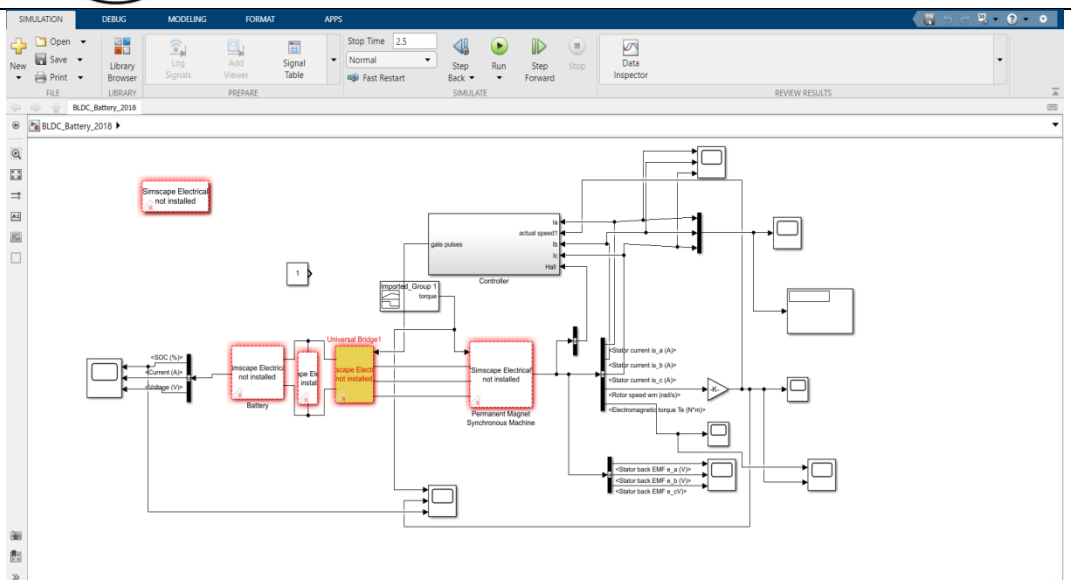
The objective of this autonomous vehicle is that it should follow a designated path made by a black tape on the white floor.

The advantages of this vehicle are, that it is automatic, cost effective, capable of taking various degrees of turns and insensitive to environmental factors like noise and lighting.
Through this case study, students gain practical knowledge in process modelling, control strategies and troubling shooting techniques.

Case Study – 2 (Complete Process report with Evaluation rubrics)

Regenerative braking system

In this case study, students investigate on the recovery of kinetic energy during braking. In a conventional vehicle a majority of the kinetic energy is converted into heat during friction braking and emitted into the environment. When the driver steps on the brake, the vehicle's electric motor switches to Generator mode. The wheels transfer the Kinetic energy via the drive train to the generator. Students investigate on converting kinetic energy to electrical energy using a motor. When motor runs in one direction, electrical energy is converted to mechanical energy which is used to accelerate the vehicle le and whenever the motor runs in opposite direction, it performs functions of a generator converting mechanical energy to electrical energy. This makes it possible to utilize the rotational force of the driving axle to turn the electric motors, which results in regenerating electric energy for storage in the battery and simultaneously reducing the speed of the car with the regenerative resistance of the electric motors. In this project, model was developed using Mat lab.



Through simulation and experimentation, students approach towards product design with desired properties such as stability and efficacy.

2019-20

Evaluation rubrics

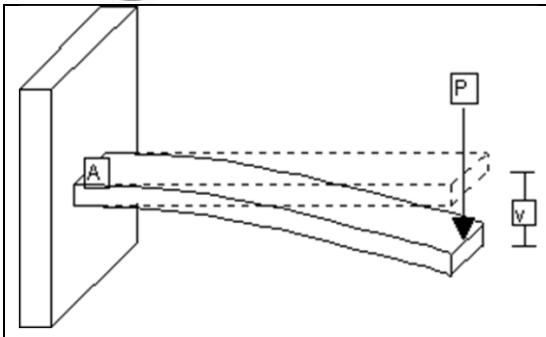
	Marks (100)	Marks (20)
Understanding and Knowledge of study	15	3
Applying Physics Principle	20	4
Data collection in that field of study	05	1
Report	25	5
Communication Skills (Verbal + body language + voice modulation) and team work	15	3
Quality of slides	15	3
Timely submission and presentation	05	1

Case Study – 1 (Complete Process report with Evaluation rubrics)

Determination of Young's modulus using strain guage.

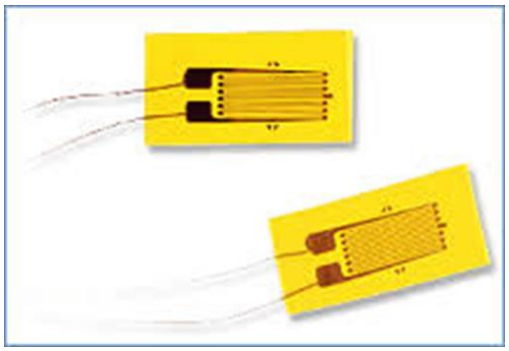
In this Experiential Learning students made an attempt to determine the Young's modulus of the material using a strain gauge, which involves applying known stress to a material and measuring the resulting strain using the strain gauge.

In the set up shown in the below diagram, one end of the beam is fixed to rigid support and the other end is loaded. In our experiment the beam is made of steel. This arrangement collectively known as single cantilever



WORKING PRINCIPLE: When load is applied at the free end of the beam bends by a very small angle. Due to this the beam length increases which is very small. The extension produced in the beam can be recorded using a sensor called strain gauge.

STRAIN GAUGE



A Strain gauge (sometimes referred to as a Strain gauge) is a sensor whose resistance varies with applied force; It converts force, pressure, tension, weight, etc., into a change in electrical resistance which can then be measured. When external forces are applied to a stationary object, stress and strain are the result. Stress is defined as the object's internal resisting forces, and strain is defined as the displacement and deformation that occur.

The strain gauge is one of the most important sensor of the electrical measurement technique applied to the measurement of mechanical quantities. As their name indicates, they are used for the measurement of strain. As a technical term "strain" consists of tensile and compressive strain, distinguished by a positive or negative sign. Thus, strain gauges can be used to pick up expansion as well as contraction.

The strain of a body is always caused by an external influence or an internal effect. Strain might be caused by forces, pressures, moments, heat, structural changes of the material and the like. If certain conditions are fulfilled, the amount or the value of the influencing quantity can be derived from the measured strain value. In experimental stress analysis this feature is widely used. Experimental stress analysis uses the strain values measured on the surface of a specimen, or structural part, to state the stress in the material and also to predict its safety and endurance.

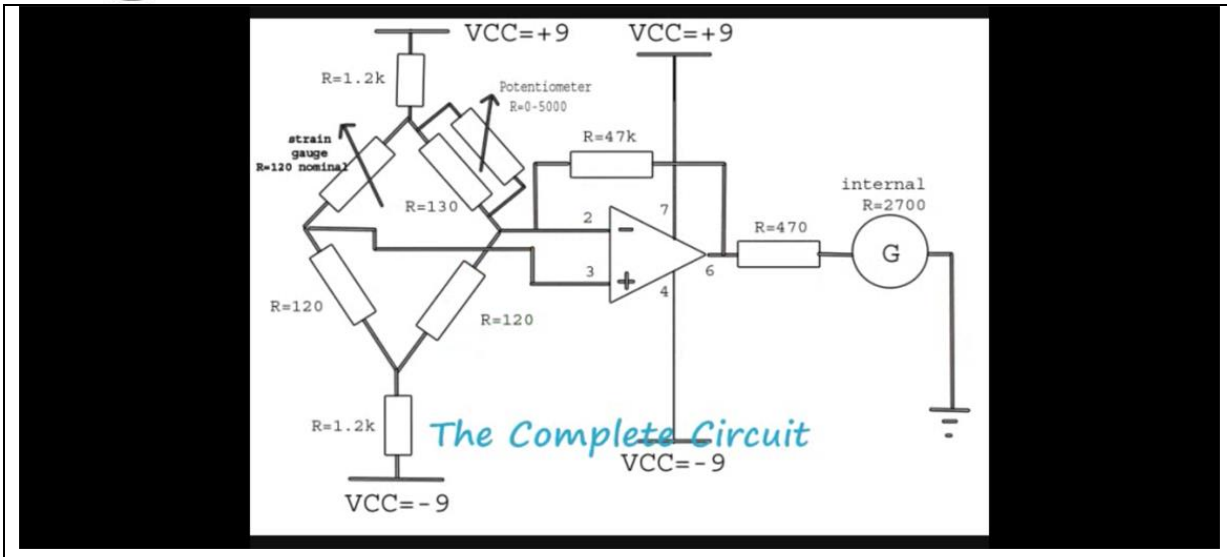


Diagram: Wheatstone bridge and amplification circuit

Advantages of using strain gauge over manual method

1. The value of Young's modulus can be determined more accurately.
2. The time consumed is very less compared to manual method.

Disadvantages of using strain gauge

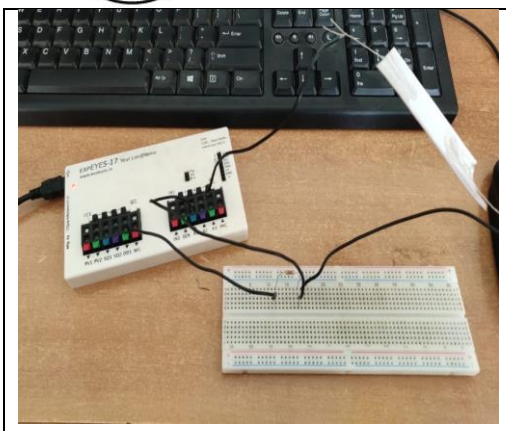
1. Installation of a strain gauge is very difficult; it includes the task which needs special techniques.

Case Study – 2 (Complete Process report with Evaluation rubrics)

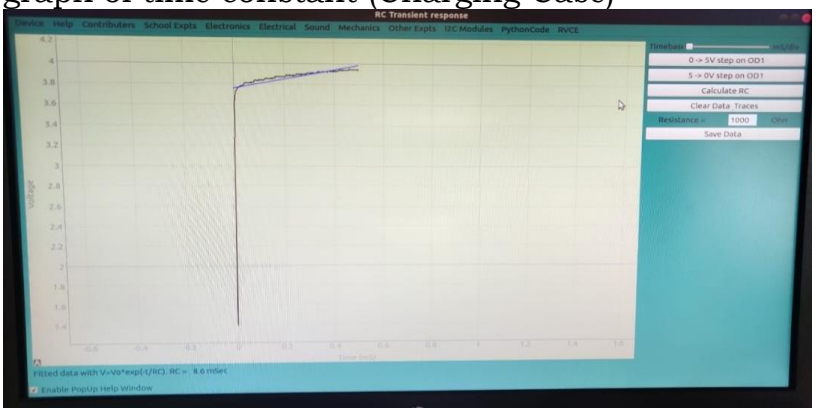
Designing a Capacitor and determining its dielectric constant

In this experiential learning project,t student designed a capacitor and found its capacitance, dielectric constant of the dielectric medium paper, and time constant using expEYES open source. Capacitors consist of two parallel conductive plates (usually a metal) which are separated by an insulating material called the "dielectric". When a voltage is applied to these plates electrons are pulled from one plate and transferred to the other thus creating positive charge and negative charge on each of the conductors. Because of these charge separations an electric field is setup between the plates. Charge separation takes place till the potential difference between the plates become equal to the supply voltage.

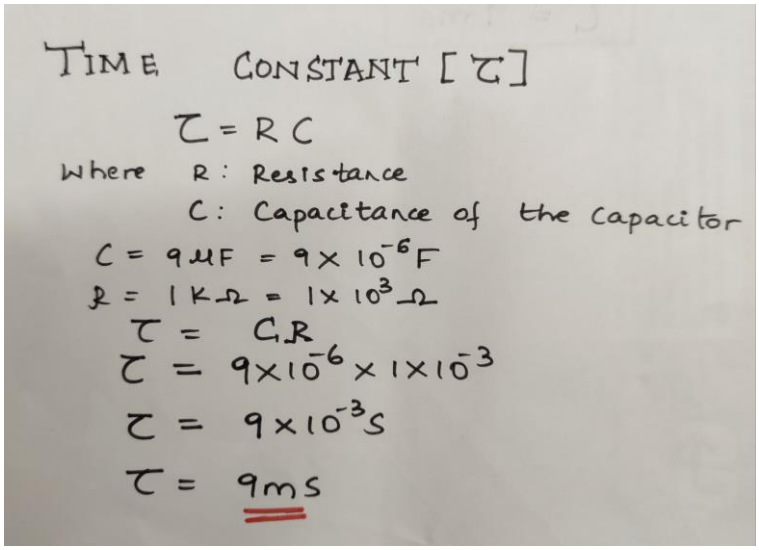
The components used are paper of dimension 19x7 (in cm). Aluminum foil of 2 square shape of dimension 6x6 (in cm), Scissors, expEYES kit, connecting wires, glue, tape, aluminium wire, breadboard. Cut the rectangle and squares of specified dimensions. Place the cut square on the rectangle and paste it on it by placing the aluminum wire on the edge. Repeat the same on the other end as well (use tape if needed). The final look of the capacitor is as shown in the figure.



Experimental graph of time constant (Charging Case)



THEORETICAL CALCULATIONS FOR TIME CONSTANT & DIELECTRICS



TIME CONSTANT [τ]

$\tau = RC$

Where R : Resistance

C : Capacitance of the capacitor

$C = 9\mu F = 9 \times 10^{-6} F$

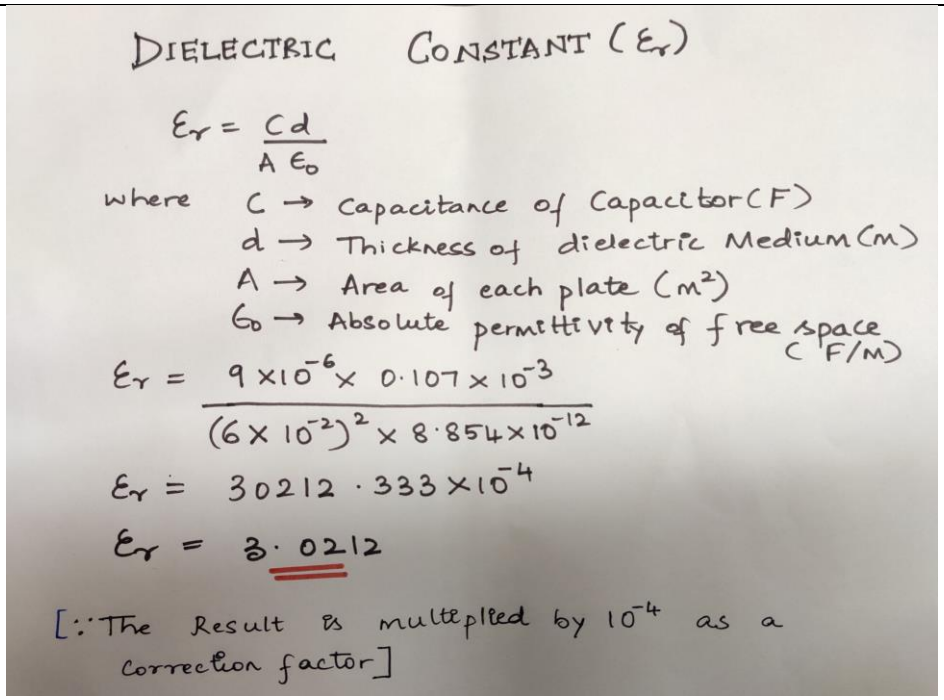
$R = 1K\Omega = 1 \times 10^{3} \Omega$

$\tau = CR$

$\tau = 9 \times 10^{-6} \times 1 \times 10^{-3}$

$\tau = 9 \times 10^{-3} s$

$\tau = 9ms$



- The capacitance of the capacitor designed is C= 9.0μF.
- The experimental value of time constant τ=8.6ms.
- Theoretical value of time constant τ= 9ms
- The dielectric constant of the medium ε_r = 3.0212

2018-19

Evaluation rubrics

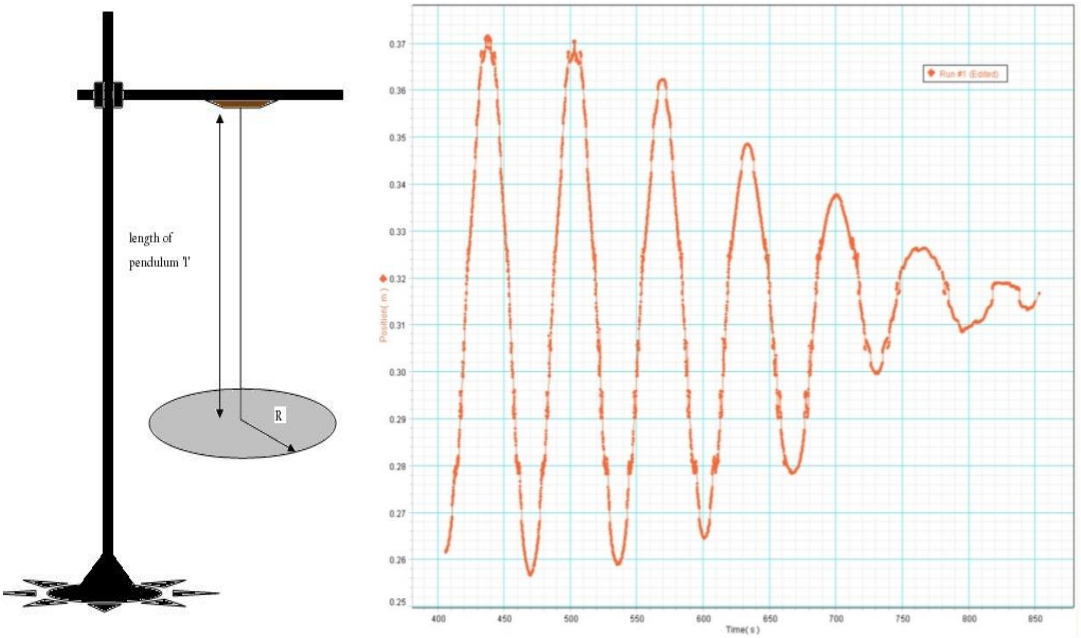
	Marks (100)	Marks (20)
Understanding and Knowledge of study	15	3
Applying Physics Principle	20	4
Data collection in that field of study	05	1
Report	25	5
Communication Skills (Verbal + body language + voice modulation) and team work	15	3
Quality of slides	15	3
Timely submission and presentation	05	1

Case Study – 1 (Complete Process report with Evaluation rubrics)

Study of angular motion of torsional pendulum using tracker

This study aims to elucidate the concept of the torsional pendulum, delve into its time period calculation, elucidate damping oscillations, analyse the angular

motion graphically using a tracker tool, depict equations through graphical representations, and explore practical applications of the torsional pendulum.
A schematic diagram of torsional pendulum shown below

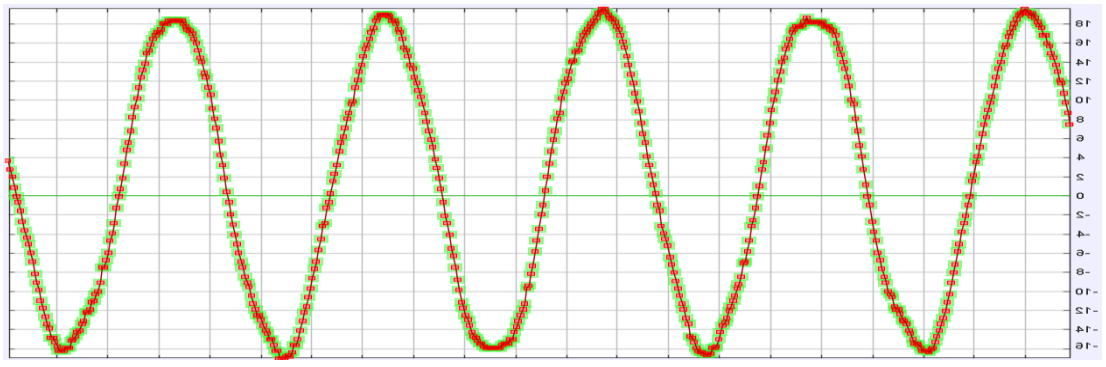


Graph obtained by using Tracker Software

The motion of the torsion pendulum is described by

$I(d^2\theta/dt^2)+ \mu(d\theta/dt) +s\theta=T\cos(\omega t)$

The graph shown below was made through the use of a tracker program. This graph proves that the torsional pendulum has a mean and two extreme positions and shows proof that the torsional pendulum follows the principle of simple harmonic motion. By this sinusoidal wave, we get the equation



row	t	y
24	1.081	19.16
25	1.121	19.00
26	1.161	18.54
27	1.201	18.07
28	1.241	17.60
29	1.281	17.13
30	1.321	16.67
31	1.361	15.89
32	1.401	15.58
33	1.441	14.80
34	1.482	14.02
35	1.522	13.40
36	1.562	12.46
37	1.602	11.53
38	1.642	10.44
39	1.682	9.813
40	1.722	9.034
41	1.762	8.255
42	1.802	7.477
43	1.842	6.542
44	1.882	5.140
45	1.922	4.206
46	1.962	3.583
47	2.002	2.181
48	2.042	1.558
49	2.082	-3.553E-15
50	2.122	-0.935
51	2.162	-2.025

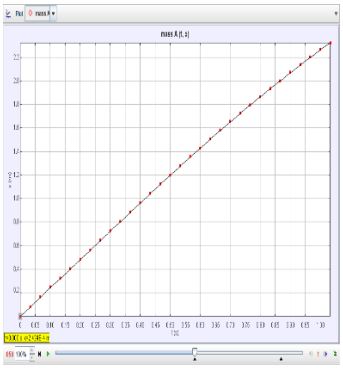
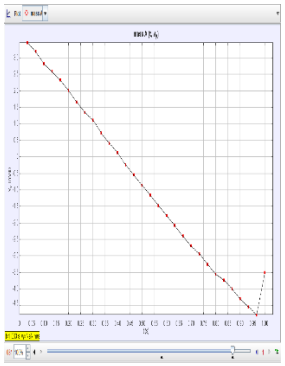
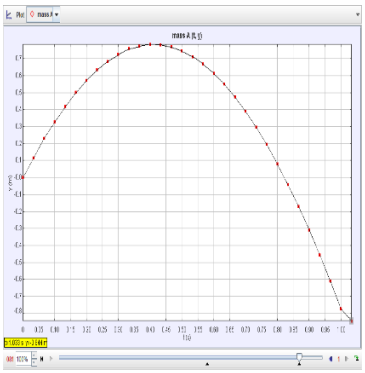
This study has successfully presented by students about the fundamental principles underlying a torsional pendulum. Additionally, it has derived the formula for the time period of the torsional pendulum and provided a comprehensive explanation of damping oscillations, Furthermore, students have demonstrated that the motion of a torsional pendulum follows a simple harmonic wave equation, depicted graphically using a tracker program. Moreover, students have illustrated the practical applications of a torsional pendulum, showcasing its utility in obtaining various physical parameters such as the moment of inertia of irregular bodies and characteristic properties of a medium.

Case Study – 2 (Complete Process report with Evaluation rubrics)

Study of projectile motion using tracker

In this Experiential Learning, a group of students used tracker software to carry out the comprehensive analysis of projectile motion, to track the object's position, velocity, acceleration, as well as to provide overlays and data in detail. In this study a crucial point for the students to bear in mind is that motions along perpendicular axes are independent and therefore can be analysed separately. This principle was highlighted in "Kinematics in Two Dimensions: An Introduction," where it was demonstrated that vertical and horizontal motions

are distinct. When examining two-dimensional projectile motion, it is essential to decompose it into horizontal and vertical components. This selection of axes is particularly logical, as gravity's acceleration acts vertically, resulting in no acceleration along the horizontal axis when air resistance is negligible. Following convention, we designate the horizontal axis as the x-axis and the vertical axis as the y-axis. This notation diagram illustrates displacement, where $\vec{r}$ represents total displacement, and $r\vec{x}$ and $r\vec{y}$ denote its horizontal and vertical components, respectively. Describing motion involves consideration of velocity, acceleration, and displacement.

In this EL project the student discussed about the relative ease of installation and use of tracker to conduct learner centered in-depth video analysis with reference to the theoretical physics model of the ideal projectile motion. The values deduced from video analysis are considered with real world data of gravitational acceleration on surface of earth. The values were calculated and compared The position x component was found to be 14.09m, the position y component was found to be 11.9588m, and velocity x component was found to be 4.8166m/s, velocity y component was found to be 6.632m/s.

7. Recommendations for Integrating Experiential Learning:

In order to better integrate experiential learning in lower semesters, here are few recommendations:

Reformation of Curriculum: The curriculum must provide opportunities for students to engage in creative problem-solving activities that challenge them to think critically and develop innovative solutions.

Encourage Reflection and Learning from Mistakes: Incorporate time for reflection into the learning process to help students analyse their experiences, learn from their

mistakes, and make connections between actions and outcomes. Reflection enhances personal growth, self-awareness, and deeper learning.

Rubrics for evaluation: The rubrics have to be designed in such a way that the emphasis is on the process rather than on the outcome of the EL project. The evaluator has to spend time with the student teams and understand the different stages of problem solving in the EL than focussing on the end result.

8. Outcome & Conclusion:

Experiential Learning in Physics enhances the cognitive skills of the students. Through Seminar and power point presentations, students are able to understand the depth of the concept by carrying out literature survey, discuss interdisciplinary concepts, analyze and evaluate the information presented in Scientific journals, improve the presentation skill and team Work. Through working model/prototypes, students are able to identify and assemble the components on electronic boards, write the operation programs/codes, execute the working of prototypes and know the advance technology applicable to societal needs. By development of innovative experiments, students design the working concept, Interfacing the sensor to the hardware (expEyes) and visualization of the Physics concept, thereby calculating the Physical parameters. Simulation based experiments help the students to design the working concept, use the Open software tools, visualize the analogue output through digitization, apply the mathematical knowledge to understand the Physics concept.

By engaging students in experiential learning, they are better able to connect theories and knowledge learned in the classroom to real-world situations. When students participate in experiential learning, they gain a better understanding of course, insight into their own skills, interests, passions, and values, opportunities to collaborate with diverse people, positive professional practices and skill sets and self-confidence and leadership skills.

List of Students with topics of EL

SL NO.	USN	NAME OF THE STUDENT	Topic of EL / PBL
1	1RV18EE004	Adarsh Pathak	Analysis of simple pendulum using tracker
2	1RV18EE037	Prajyot Biradar	
3	1RV18EE051	Shubham Bansal	Free fall of an object
4	1RV18EE002	Abhishek ranjan	
5	1RV18EE059	Vaibhav Jha	

6	1RV18EE046	Sai aslesh B	The spring constant of a given spring
7	1RV18EE033	Naman Bagri	
8	1RV18EE048	Sandeep	Study of sound waves using trackers
9	1RV18EE003	Adarsh B	
10	1RV18EE008	Amith S Kumar	I-V plots of semiconductor devices using Agilent V1 500
11	1RV18EE039	Pranav M Kulakarni	
12	1RV18EE044	Revathi M S	
13	RV19BTE012	Abdur Rehman	SONAR
14	RV19BTE010	Shriram S K	
15	RV19BTE003	Sashwath V	
16	RVCE19BTE023	Bharath V	Basket Ball – Study of Projectile motion using tracker
17	RVCE19BTE054	Abhilash M S	
18	RVCE19BTE057	Atul Sai S S	The projectile motion of spherical Object using tracker
19	RVCE19BTE056	Sumukh	
20	RVCE19BTE014	Vibodh	
21	RVCE19BTE 048	Vinitha V	Laser diffraction using experimental method
22	RVCE19BTE 007	A M Anajna Sundari	
23	RV19BTE024	Manas Goyal	Study of dielectric constant using Exp-eyes
24	RV19BTE044	Ayush Agarwal	

25	RV19BTE063	Aishwary Vishwa Vikram	
26	1RV20IM042	Rusheesh Mahanth	Geothermal energy and SDG
27	1RV20IM027	Mohana Priya A	
28	1RV20IM045	Sidath Ahmed	
29	1RV20IM009	Bharath B S	
30	1RV20IM022	Kushala	
31	RVCE20BIM037	Tejas S	Wind mill and improvement in its efficiency
32	RVCE20BIM026	Mithul Kiruthik M	
33	RVCE20BIM002	Surya Raju	
34	RVCE20BIM031	Madhusudan L N	
35	RVCE20BIM042	Raghavendra H	Role of ev on Environmental sustainability
36	RVCE20BIM012	Aditya Ranganath	
37	RVCE20BIM058	Ranjith V N	
38	RVCE20BIM039	Harsha G	
39	1RV20IM017	Hrishika pal	Market survey in e-mobility
40	1RV20IM028	N Divyashree	
41	1RV20IM032	P Vaibhavi	
42	1RV20IM036	Priya raj	
43	1RV20IM047	Sahil Ghosh	

44	RVCE20BEC027	Sri Krishna	Autonomous vehicle
45	RVCE20BEC026	Shrish Shrinath Vaidya	
46	RVCE20BEC021	Iranna R Patil	
47	RVCE20BEC023	Prajwal Suresh Hegde	
48	RVCE21BCS121	Akshaja V Miya	Nanoparticles and their application in Luminescence
49	RVCE21BCS108	Rakshith V	
50	RVCE21BCS106	Nayan Gowda M	
51	RVCE21BCS100	Tejas Kumar V	
52	RVCE21BCS190	Snehil Sini	Charging technology and station developments for e vehicles.
53	RVCE21BCS171	Prathik Chandrakanth Koot	
54	RVCE21BCS193	Saurab kumar	
55	RVCE21BCS194	Divanshu Mishra	
56	RVCE21BIS063	Punya R	Good health and well-being (usage of optical fibers and lasers in medicine)
57	RVCE21BIS062	Ishaani R Gowda	
58	RVCE21BIS056	Maleapti Ananya	
59	RVCE21BIS054	Sneha M	
60	RVCE21BIS025	Sinchana Math	
61	RVCE21BEI045	Maur C	Scanning Tunneling Microscope
62	RVCE21BEI020	Srinivas R Nadgir	
63	RVCE21BEI043	Prajwal K P Bhat	

64	RVCE21BEI039	Prajwal Pankaj	
65	RVCE21BIS037	G S Keshav	Sustainable energy - Foot step power generator
66	RVCE21BIS038	Naman Agarwal	
67	RVCE21BIS047	Priyashu Ranjan	
68	RVCE21BIS049	G Venkatesh Akhilesh	
69	1RV32ME051	Mohit chikkadi	Gloves that speaks for…
70	1RV21CH021	Nayan Raj	
71	1RV21AS027	Krish Dhankar	
72	1RV21ME038	Kavya Surana	
73	1RV22EC027	Atreyo Chakravarthi	Automatic fire extinguisher model
74	1RV22EC026	Atharva Nagarkar	
75	1RV22EC033	Bhaskar Jha	
76	1RV22EC002	Abhinav Kumar	
77	1RV22EC00654	Harsh Kumar	
78	RVCE22BEC072	Ananya I Shirol	IOT based battery monetary monitoring system
79	RVCE22BEC073	Ashwija	
80	RVCE22BEC082	Apoorva	
81	1RV22EC048	Druthi Upadyay	Design of Piezoelectric material bases heart rate measuring sensor system
82	1RV22EC026	Avani Ramesh	
83	1RV23AS034	Nikitha M	

DEPARTMENT OF CHEMICAL ENGINEERING

The Chemical Engineering department prioritizes experiential learning and Problem-Based Learning (PBL) to foster practical skills and critical thinking among students. Through hands-on experiences like laboratory work, internships, and industry projects, students bridge theory with real-world application, reinforcing their understanding and preparing them for professional practice. PBL enhances this approach by presenting students with authentic, open-ended challenges, promoting teamwork, innovation, and effective communication. Emphasizing interdisciplinary collaboration, the department prepares students to tackle complex problems by integrating insights from various fields. Overall, the department's commitment to experiential learning and PBL equips students with the skills and mindset necessary to excel as chemical engineers, fostering innovation, sustainability, and ethical practice in their future careers.

Table of Contents:

1. Introduction:

In the dynamic realm of Chemical Engineering, the department champions experiential learning and Problem-Based Learning (PBL) as cornerstones of education. Through hands-on experiences and collaborative projects, students transcend theoretical confines, honing practical skills and critical thinking. Embracing real-world challenges, they emerge as adept problem solvers equipped to innovate and contribute meaningfully to society. This introduction sets the stage for an exploration of how the department's pedagogical approach transforms aspiring engineers into versatile professionals ready to navigate the complexities of the modern world.

2. Theoretical Framework of Experiential Learning:

The theoretical framework supporting the Chemical Engineering department's emphasis on experiential learning and Problem-Based Learning (PBL) is rooted in constructivist and socio-cultural learning theories. Constructivism posits that knowledge is actively constructed by learners through meaningful interactions with their environment, aligning with the hands-on approach of experiential learning. PBL, inspired by socio-cultural theory, emphasizes collaborative problem-solving within

authentic contexts, fostering the development of higher-order thinking skills. Additionally, the department draws on principles of active learning, where students take ownership of their learning process, and situated learning, which emphasizes learning in authentic contexts. Together, these theoretical underpinnings inform the design of curricula and activities that prioritize student engagement, critical thinking, and the application of knowledge in real-world settings.

3. Types and Approaches of Experiential Learning

The Chemical Engineering department employs various types and approaches to experiential learning and PBL. These include laboratory experiments, industrial internships, and collaborative projects with industry partners. Additionally, simulation-based learning offers virtual environments for hands-on practice. The department adopts problem-based and project-based learning methodologies, where students tackle authentic, open-ended challenges individually or in teams. Inquiry-based learning encourages exploration and discovery, while case-based learning uses real-life scenarios to stimulate critical thinking. Furthermore, flipped classroom models invert traditional teaching methods, with lectures delivered outside class and class time dedicated to active learning activities. These diverse approaches cater to different learning styles and enhance students' practical skills and problem-solving abilities.

Years wise Broad Topics

2023-24		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
		Hydro-dealkylation of Toluene to Benzene
		Production of oleum by contact process
		Ostwald process
		Simulation of LNG production
		Production of cumene
		Glycol dehydration process - gas processing
		Dynamic simulation of Desuperheater
		Fractional Distillation Column
		Refrigeration system in gas Processing plant
		Production of ethylene chloride
		Syngas production
		Two stage compression
		Production of Cyclohexane from Benzene
		Ammonia Haber's Process
		Drying Oil Production
		Debutanizer
		Vinyl Chloride Production
		Oxygen Synthesis
		Simulation of styrene production from ethylbenzene.
		Di-methyl Ether using Natural gas
		Methanol Synthesis

		Aniline production
		Simulation of propane refrigeration cycle
		Natural gas dehydration with TEG
		Binary Distillation
		Production of syngas from steam methane (reforming process)
		Steam methane reforming
		Nitrogen Removal with Cryogenic Distillation
		Production of methanol from syngas
		Pyrolysis of polypropylene
		water electrolysis
		Production of n-octane from ethylene and iso-butane
		Production of Sulphuric Acid (Contact Process)
		Syngas production
		Hydrogen Generation
		Simulation of Titanium Dioxide Production
		Di - methyl Ether from Methanol
		NGL Fractionation plant
		Semester 3 (Common EL Topics)
		Industry Visit - Survey
		Atmospheric Water Harvesting
		Virtual Lab (V-Notch)
		Preliminary study - Silicon from Granite Powder
		Virtual lab(Orifice meter)
		Application of AR and VR
		Designing New Experiment - Froth floatation

2022-23		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1	Industry visit with a specific purpose or focus	Production of dimethyl ether
2	MATLAB & Simulation	vinyl chloride production
3	Statistical Thermodynamics	n-octane from ethylene and isobutane
4	Teaching of Fogler	Sulphuric Acid Manufacturing Plant with Double Absorption Process
5	Excel sheets in Chemical Engg	production of ethanol from ethylene and water
6	Innovative experiment	Amine sweetening unit with MDEA
7	Designing of new experiment for the lab(CRE,MOT,HT, PT)	simulation of formaldehyde production process.

8	Kinetic studies of Bioreactors for Muncipal water treatment	Steam methane reforming
9	Any programing language Python/MATLAB/Java	production of benzene from Toluene
10	Unsteady state chemical Engg Problems in HT,MT,MOT	Chlorobenzene plant production
11	Engineering in Flood management/Volcano eruptions	Production of Ethyl chloride
12	AI&ML enabled personalized tutor	Simulation of cyclohexane from benzene hydrogenation using ANSYS
13	Industry visit with a specific purpose or focus	Natural Gas Dehydration - Simulation Process
14	MATLAB & Simulation	TEG-Gas Contactor Unit

2021-22		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1		
2	Beer and Whiskey manufacture	MIXING BEHAVIOR OF CONTINUOUS STIRRED TANK REACTOR
3	Scotch manufacture (Lagavulin)	Biological Waste Water Treatment and Bioreactor Design: A Review
4	Classification of enzymes	Methane activation & conversion
5	Soft drinks manufacturing process	Mixing tank modelling using CFD
6	Processing and manufacture of canned foods	Reactors for processing hazardous materials
7	food toxicity	multistep continuous flow synthesis
8	Control of microbial poisoning in food	A comparison of continuous flow and sequencing batch reactor plants concerning integrated operation of sewer systems and wastewater treatment plants
9	Processing and manufacturing of Tea	Bioreactors: Membrane bioreactors
10	Protein Powder Synthesis	Reactor models for a series of continuous stirred tank reactors with a gas-liquid-solid leaching system
11	Food safety in food and beverage plant	Flow Reactors for Waste Water Treatment
12	Organic food	Bioreactors: Airlift Bioreactors
13	Nanomaterials in food packaging	Applications of aerobic granular sludge sequencing batch reactor
14	Biochemical Case Histories	Plasma reactors for degradation of PFOA (perfluorooctanoic acid) in water
15	Manufacturing of milk powder	Chemical Reaction Engineering and Activated Sludge
16	Space food- Production and Preservation	Microwave reactors: Design, Advantage and applications

17	Food Flavours	Tubular photobioreactor design for algal cultures
18	poultry processing	bioreactors (AnMBR) for the treatment of highly contaminated landfill leachate
19	Fruit juice processing	Designing a CSTR for Ethylene Glycol Production
20	Sustainability growth in food industry	Reactor modeling in the Petroleum Refining Industry
21	Vegan Food Growth and Processing in food industry	Design of flow reactor for production of dimethyl either
22	Enzyme application in dairy industry.	A discussion on Spinning Disk Reactors and Evaluation of SDR Technology for the Manufacture of Pharmaceuticals
23	Food laws and quality assurance	Using Mathcad to facilitate the design of chemical reactors involving multiple reactions
24	Processing of nuts	Bioreactors:Fluidized Bed Bioreactors
25	Effluent treatment in food industries	Bioreactors: Photobioreactors
26	Coffee processing	Bioreactors:Stirred tank bioreactors
27	Food- Drug Interactions	Optimal operations of Batch reactor
28	BIiofortification of food	Reactor Design for Sustainable Process Development
29	White wine and Cognac production	Membrane Bioreactors for Pharmaceutical Wastewater Treatment
30	diary processing	Scope and Application of Microreactors in small scale organic syntesis and biomedecine
31	Food Adulteration	Reactor Selection for Effective Continuous Biocatalytic Production of Pharmaceuticals
32	IoT in food industry	Chemical Reactor Design Theory and Biological Treatment of Industrial Wastes
33	Food preservation and processing	Bioreactors: Membrane bioreactors
34	Drying process and technology in food industries	CFD Simulation Analysis and Optimisation of a Batch Reactor(CSTR)
35	Processing and Manufacture of Sugar	Biological Waste Water Treatment and Bioreactor Design: A Review
36	Cereal processing	Membrane Bioreactors for treatment of food industry wastewater
37	Food packaging	Bioreactors:Mist Bioreactors

2020-21		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1	3D Development of a Calendria Evaporator	Data Analysis of some important rivers in India
2	Design and Selection of column internals	Statistical analysis of heliophysics data
3	Sketch of Newton	Instrumental methods of analysis for food quality testing and degradation
4	Specific heat calculator	Study of instrumetal methods used for studying effect of food packaging material on environment
5	Design decisions in HE design	Data Analysis for statical discharge of Van de Graff Generator
6	3D - Model development of plate columns	Data analysis and image analysis of acid rain on earthen plasters
7	Design of s/w application for Ponchon Savarit method	COmponents of solar cells and orientation of solar panels.
8	General design considerations : Pressure Vessel	Data Analysis of Covid-19 datasets
9	Green Design Life in and after engineering	Data analysis of archaeological objects
10	Safety and Loss Prevention in Design	Handling and analysis of XRD data
11	Material of Construction	IMA in art restoration.
12		analysis of the hygienic condition of canteen food services
13	Environment and Natural Resource Management	Infrared Spectroscopy for Food Quality Analysis and Control(Milk and Dairy Products)
14	Business Enabling Environment	Raman spectroscopy for quality assessment of meat and fish
15	Innovation and Technology Policy	instrumental analysis and preparation of shrikhand
16	Urban Ecology	Use of X rays and Gamma rays to detect chemical composition of Mars
17	Remote Sensing and Geographic Information Systems	Use of NMR spectorscopy to detect toxins in a tissue/cell samples
18	Bioremediation	Acid Rain
19	Noise and Light Pollution	Data analysis on Climate Change
20	Conservation Biology	Instrumental Methods To Predict Taste and Aroma in Beverages
21	Environmental Justice	Prediction of Net Electrical Energy output of a combined cycle power Plant
22	Energy Technology Data Exchange	High Performance Liquid Chromatography in Forensics
23	Wetland protection, conservation agriculture, agroforestry and livestock selective breeding	Acid Rain

24	Drought Early Warning and Forecasting System: Improving resiliency of crops to drought through strengthened early warning within Ghana	Air Polution from oil and natural gas
25	Biomass Technologies for Electricity Generation	Air quality analysis
26	Building Capacity in Ecosystem-based Adaptation in Mountain Regions	Acidificaion of ocean and coastal
27	Early drought warning and forecasting considering climate change and climate variability	Anaerobic Digestion
28	Sustainable Livestock Production	Carbon foot print
29	Solar Photovaltaic	Biopesticides
30	Design and scale-up of climate resilient waste management and energy capture technologies in small and medium livestock farms	Volatile organic compound control devices
31	Hydrodynamic modelling for flood reduction and climate resilient infrastructure development pathways	Bamboo as a Building Material
32	A high-rate anaerobic Reactor for treating complex wastewater	Drip Irrigation
33	compact food waste bioenergy plant	Green Concrete
34	Bioprocess for treating perchlorate (rocket fuel) contaminated water and soil	Rainwater Harvesting
35	Modular onsite wastewater treatment cum resource recovery unit	Green Building
36	Bioprocess for treating perchlorate (rocket fuel) contaminated water and soil.	Biodisel
37	Controlled AD process for recovering natural fibre from Agro-residues	Eco paints
38	Gas Bio-trickling filter (BTF) unit.	Storage of sulphuric acid, while transportation
39	UV-Clean Disinfecting unit (λ-Flashbox).	Safety measures in HCl manufacturing industry
40	Development of a Monitoring System Utilizing Artificial Intelligence Technology for Removed Contaminated Soil	Safety in cement based industry
41	Research and Development of a Simulation Support System for Evaluating Air Pollution Measures	Safety in steel based industry

42	Material Flow and Environmental Behavior Analysis on PCB and POPs Related Compounds	Chlorine gas handling techniques
43	Strategic Research on Global Mitigation and Local Adaptation to Climate Change	Handling mercury cyanides
44	lack Carbon and Dust Particles in the Arctic: Behavior in Association with Global Radiative Forcing	Toxicity tests for ammonium hydroxide
45	Development of Advanced Recycling Technology for Fly Ash to Enable Cement-free Concrete	Methyl isocynide risk and hazards- a review
46	Climate Change Adaptation to Disasters in Urban Environments	Toxicity tests for ammonium hydroxide
47	Estimation of Regional-Global Methane Emissions and Refinement of Its Estimate by GOSAT-2 and Surface Observations	Hazards in crackers industry and safety measures
48	ENHANCING URBAN ENERGY SECURITY THROUGH	Lead poisoning
49	RENEWABLE ENERGY SOLUTIONS Case Study-	Citric Acid MSDS

2019-20		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1	Advanced Characterication of both the nanostructured inorganic catalyst and complexorganic feed	Explore how mass transfer principles apply to biological systems, such as drug delivery, oxygen transfer in tissues, or nutrient transport in plants.
2	Novel Catalyst Synthesis Techniques.	Investigate the principles of heat transfer in electronic devices, focusing on cooling methods such as conduction, convection, and radiation, and their applications in improving device performance and reliability.
3	Biomass Conversion over Heterogeneous Catalysts	Fluid Flow in Porous Media: Analyze the flow of fluids through porous materials
4	SELECTIVITY IN HETEROGENEOUS CATALYSIS	Transport Phenomena in Chemical Reactors: Study how mass, heat, and momentum transfer influence chemical reactions in reactors
5	Mechanisms of Catalytic Reactions	
6	Liquid catalysts	Explore the role of transport phenomena in environmental processes such as air and water pollution

		dispersion, sediment transport, and contaminant migration in soil.
7	Heterogeneous Catalysis for Biodiesel Production	Transport Phenomena in Food Processing: Investigate the application of transport phenomena principles in food processing operations
8	Advanced characterization of complex biomass feeds, e.g. lignins and humins	The principles of membrane transport in biomedical applications
9	Catalytic converter	Transport Phenomena in Nanotechnology: Explore how transport phenomena govern the behavior of fluids
10	Sustainable Chemistry & Catalysis	Transport Phenomena in Energy Systems: Analyze the role of transport phenomena in energy conversion and storage technologies
11	Catalysis for a Cleaner and Sustainable Future.	ADHESIVES AND SURFACE COATINGS
12	Mass transfer controlling the reaction rate in Heterogeneous Catalytic systems	CORROSION ENGINEERING
13	New heterogeneous and homogeneous catalysts: solid acids and solid bases and homogeneous transition metal complexes	Fuels systems
14	Trickle bed reactor	Flare Systems
15	Relations between Homogeneous and Heterogeneous Catalysis	Effluent Treatment Plant
16	New concepts at the interface of heterogeneous and homogeneous catalysis, e.g. Pickering emulsions as medium for catalysis and Single Atom Catalysts	Steam & Condensate
17	AgTiO2-SiO2 composite material as novel catalyticsystem for selective epoxidation of cyclohexane by H2O2	Safety Relief
18	Catalysis for Clean Energy and Sustainable Chemistry	Water systems
19	Recent Advances in Selective Oxidation Catalysis	Ideal-Typical Utility Infrastructure at Chemical Sites – Definition, Operation and Defossilization
20	Fundamentals of Surface and Catalytic Reactions for Energy Application	Momentum Transfer to a Simplified Wind T o a Simplified Wind Turbine Blade
21	Nanobiocatalysis and Its Potential Applications:	Natural convection in supercritical fluids

22	Catalytic Aspects of Complete Oxidation of Volatile Organic Compounds	Simulation of Microfluidic-Multiphase Flow in a Y-Y channel using a Modified Surface Tension Term
23	Bridging Organic Chemistry and Heterogeneous Catalysis	Angular momentum transfer in galaxy formation and evolution
24	Metal nanocatalysts in solution: characterization and reactivity	Momentum Transfer in Hypervelocity Impact Experiments on Rock Targets
25	Catalytic Conversion of Energy & Resources.	Hydraulic Excavator
26	Recent Advances in Selective Oxidation Catalysis	Modern fluid dynamics
27	Design of Environmentally-friendly Catalysts and Photocatalysts;	Process Simulation for Producing Green Diesel from Variable Feedstocks
28	Metal Catalysis—Past, Present and Future.	MATERIAL AND ENERGY BALANCE
29	Nanobiocatalysis and Its Potential Applications	Mass and Energy Balancing: Calculations for Plant Design
30	Catalysis for Clean Energy	
31	Heterogeneous Oxidation Catalysis	
32	Catalyst recycling / hybrid catalysts	
33	Catalysts used in petroleum industry	

018-19		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1	Utilization Of Sludge Gas.	Biomass conversion technologies (anaerobic digestion, pyrolysis, gasification)
2	Extraction Of Silica From Burnt Paddy Husk	
3	Detergent Powder From Paddy Husk.	Practical chemical thermodynamics for geoscientists
4	Refining Of Used Lube Oils.	Energy Technology Data Exchange
5	Nicotinic Acid From Tobacco Waste.	Elements of chemical thermodynamics
6	Paper Pulp From Groundnut Shell.	Diffusion approximations to the chemical master equation only have a consistent stochastic thermodynamics at chemical equilibrium.
7	Caffeine From Waste Tea And Coffee.	Chemical Thermodynamics and Information Theory with Applications
8	Cashewnut Sheel Liquid And Its Resin As Sand Core Binder	Chemical Product Design: A new challenge of applied thermodynamics
9	Studies On Paddy Drier	Photovoltaic (PV) technology
10	Alcohol From Potatoes And Agriculture Waste	
11	Manufacture Of Iodised Salt	Concentrated Solar Power (CSP)

12	Recovery Of Silver From Waste X Ray Solutio	
13	A Study On Electrochemical Reactions	Solar thermal systems
14	Manufacture Of Fiber Board From Areca Spathe And Husk	
15	Recovery Of Nickel From Spent Catalyst	Thin-film solar cells
16	Studies On Techniques Of Traditional Chalk Making	
17	Rayon Grade Pulp From Banana Fibres	Solar tracking systems
18	Oxalic Acid From Molasses	
19	Cementitious Material From Rice-Husk, Sea-Shells And Clay	Photovoltaic (PV) technology
20	Ethyl Cellulose From Bagasse	

4. Benefits of Experiential Learning with respect to your department:

The benefits of the Chemical Engineering department's experiential learning and PBL practices are manifold. Students gain practical skills, such as laboratory techniques and data analysis, directly applicable to their future careers. Collaboration with industry partners exposes students to real-world challenges and fosters professional networks. Engagement in hands-on projects enhances critical thinking, problem-solving, and communication skills. Moreover, students develop a deeper understanding of theoretical concepts through practical application, leading to increased retention and transferability of knowledge. Ultimately, these experiences cultivate well-rounded engineers who are better prepared to innovate, adapt, and succeed in the ever-evolving field of chemical engineering

5. Challenges in Implementing Experiential Learning with respect to your department:

Implementing experiential learning and PBL in the Chemical Engineering department poses several challenges. Limited resources, such as laboratory equipment and industry partnerships, can constrain hands-on experiences. Faculty training and support are essential to effectively design and facilitate experiential activities. Ensuring alignment between curriculum goals and real-world applications requires careful planning and coordination. Additionally, assessing student learning outcomes in authentic contexts can be complex, requiring innovative evaluation methods. Managing diverse student backgrounds and learning styles while promoting collaboration and teamwork presents another challenge. Overcoming these hurdles demands ongoing commitment, investment, and collaboration among faculty, students, and industry partners to ensure the success and sustainability of experiential learning initiatives.

6. Case Studies and Examples:

Case studies in Chemical Engineering include real-world scenarios like process optimization, environmental remediation, and product development. Students analyze these cases, applying theoretical knowledge to propose solutions. Through discussion and collaboration, they develop critical thinking skills and gain insights into practical challenges faced by industry professionals.

Each semester put two best case studies (i.e. any one EL/PBL)

2023-24
Rubrics: 2022 Scheme EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. Case study-based teaching learning (10), Program specific requirements (10), Video based seminar/presentation/demonstration (20) ADDING UPTO 40 MARKS.
Case Study 1 Dynamic simulation of Desuperheater In the dynamic simulation of a desuperheater case study, students model and analyze the behavior of a desuperheating unit used in steam systems to reduce the temperature of superheated steam. They simulate various operating conditions, such as steam flow rates, inlet temperatures, and cooling water flow rates, to understand the system's dynamic response and optimize its performance. Through this case study, students gain practical experience in process modeling, control strategies, and troubleshooting techniques, preparing them for roles in process engineering, plant operation, and thermal system design.
Case Study 2: Refrigeration system in gas Processing plant In the refrigeration system case study for a gas processing plant, students analyze the design and operation of a refrigeration unit used to cool natural gas streams for processing. They explore thermodynamic principles to optimize system efficiency and performance, considering factors such as compressor selection, heat exchange efficiency, and refrigerant properties. Through simulation and analysis, students evaluate the impact of operating parameters on cooling capacity, energy consumption, and product quality. This case study provides practical insights into refrigeration technology applications in industrial settings, equipping students with the skills to address challenges in gas processing, energy efficiency, and environmental sustainability.
2022-23
Rubrics: 2021 Scheme: EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. Case study-based teaching learning (10), Program specific requirements (10), Video based seminar/presentation/demonstration (20) ADDING UPTO 40 MARKS.
Case Study 1– Kinetic studies of Bioreactors for Muncipal water treatment In the case study of kinetic studies of bioreactors for municipal water treatment, students investigate the effectiveness of bioreactors in removing contaminants from

wastewater. They analyze the kinetics of microbial reactions involved in breaking down pollutants, such as organic matter and nutrients, within the bioreactor. By conducting experiments and collecting data on reaction rates, substrate concentrations, and microbial growth, students assess the performance and efficiency of the bioreactor system. They also explore factors influencing reactor design, such as residence time, substrate concentration, and temperature, to optimize treatment efficiency. Through this case study, students gain insights into the application of chemical engineering principles in environmental remediation and water treatment processes. Additionally, they develop practical skills in experimental design, data analysis, and interpretation, preparing them for careers in environmental engineering and sustainability.

Case Study 2: Natural Gas Dehydration - Simulation Process

In the natural gas dehydration simulation case study, students explore the process of removing moisture from natural gas to meet pipeline specifications. Using simulation software, they model dehydration units such as absorption towers or adsorption beds. By adjusting parameters like temperature, pressure, and desiccant type, students optimize the dehydration process while minimizing energy consumption and operational costs. Through this hands-on exercise, students gain insights into the principles of mass transfer, thermodynamics, and process optimization relevant to gas processing operations. The case study prepares them for roles in natural gas production, refining, and transportation industries, where dehydration is crucial for product quality and pipeline integrity.

2021-22

Rubrics: 2018 Scheme: The marks component for experiential learning is 20.
Practical Skills Application (4 marks)
Problem-Solving Ability (4 marks)
Collaboration and Teamwork (4 marks)
Critical Thinking and Reflection (4 marks)
Integration of Theory and Practice (4 marks)

Case Study – Control of microbial poisoning in food

In the control of microbial poisoning in food case study, students investigate strategies to mitigate microbial contamination and ensure food safety. They analyze critical control points in food production, storage, and distribution, employing techniques such as Hazard Analysis and Critical Control Points (HACCP). By implementing sanitation protocols, temperature control measures, and microbial testing procedures, students simulate scenarios to prevent microbial growth and minimize the risk of foodborne illnesses. Through this case study, students gain practical knowledge of microbiology, food processing, and quality assurance,

preparing them for careers in food safety regulation, quality control, and public health

Case Study – 2: Flow Reactors for Waste Water Treatment

In the flow reactors for wastewater treatment case study, students explore the application of flow reactor systems to remove contaminants from wastewater. They analyze reactor design, hydraulic characteristics, and residence time distribution to optimize treatment efficiency. By studying reaction kinetics and mass transfer processes, students develop strategies to enhance pollutant removal rates while minimizing energy and chemical usage. Through this case study, students gain practical experience in reactor engineering, water chemistry, and environmental remediation, preparing them for roles in wastewater treatment plant design, operation, and optimization, with a focus on sustainable solutions for water resource management.

2020-21

Rubrics: 2018 Scheme: The marks component for experiential learning is 20.
Practical Skills Application (4 marks)
Problem-Solving Ability (4 marks)
Collaboration and Teamwork (4 marks)
Critical Thinking and Reflection (4 marks)
Integration of Theory and Practice (4 marks)

Case Study – 1 Safety and Loss Prevention in Design

In the safety and loss prevention in design case study, students examine the integration of safety measures into engineering design processes to mitigate hazards and prevent accidents. They analyze risk assessment techniques, such as Hazard and Operability Studies (HAZOP) and Failure Modes and Effects Analysis (FMEA), to identify potential hazards and their consequences. By implementing safety features, such as process instrumentation, containment systems, and emergency shutdown procedures, students aim to minimize the likelihood of incidents and their impact on personnel, the environment, and assets. Through this case study, students develop a proactive approach to safety engineering, ensuring the integrity and reliability of industrial facilities while prioritizing human and environmental well-being.

Case Study – 2 Data analysis on Climate Change

In the data analysis on climate change case study, students investigate trends and patterns in climate data to assess the impact of human activities on the Earth's climate system. They analyze historical temperature records, greenhouse gas emissions data, and climate model projections to quantify changes in temperature, precipitation, sea level rise, and other climatic variables. By applying statistical techniques and data visualization methods, students identify correlations, anomalies, and long-term trends, informing predictions of future climate scenarios. Through this case study, students develop skills in data interpretation, hypothesis testing, and scientific communication, contributing to our understanding of climate change and informing policy decisions aimed at mitigating its effects.

2019-20

Rubrics: 2018 Scheme: The marks component for experiential learning is 20.

Practical Skills Application (4 marks)
Problem-Solving Ability (4 marks)
Collaboration and Teamwork (4 marks)
Critical Thinking and Reflection (4 marks)
Integration of Theory and Practice (4 marks)

Case Study – 1 Sustainable Chemistry & Catalysis

In the sustainable chemistry and catalysis case study, students explore innovative approaches to chemical processes that minimize environmental impact and maximize resource efficiency. They investigate the design and synthesis of catalysts for green reactions, such as renewable energy production, waste valorization, and carbon capture. By analyzing reaction mechanisms and kinetics, students optimize catalytic performance to reduce energy consumption, waste generation, and greenhouse gas emissions. Through this case study, students gain insights into the principles of sustainable chemistry, catalytic engineering, and process optimization, contributing to the development of eco-friendly technologies and fostering a more sustainable future for chemical industries.

Case Study – 2 Ideal-Typical Utility Infrastructure at Chemical Sites – Definition, Operation and Defossilization

In the ideal-typical utility infrastructure at chemical sites case study, students examine the concept, operation, and defossilization of utility systems. They define utility infrastructure as centralized systems providing essential services like steam, electricity, and cooling water to chemical processes. Students explore efficient operation strategies and integration of renewable energy sources to reduce fossil fuel dependency and carbon emissions. By analyzing case studies of utility system upgrades and decarbonization initiatives, students gain insights into the challenges and opportunities of transitioning towards sustainable utility infrastructure. This study prepares them for roles in optimizing energy efficiency and environmental performance in chemical manufacturing facilities.

2018-19

Rubrics 2016 Scheme: The marks component for experiential learning is 20.
Practical Skills Application (4 marks)
Problem-Solving Ability (4 marks)
Collaboration and Teamwork (4 marks)
Critical Thinking and Reflection (4 marks)
Integration of Theory and Practice (4 marks)

Case Study – 1 Detergent Powder From Paddy Husk.

In the detergent powder from paddy husk case study, students investigate the feasibility of utilizing paddy husk, an agricultural waste, as a raw material for detergent production. They explore extraction methods to isolate surfactant compounds from the husk, such as saponins, which possess detergent properties. Through experimentation and optimization of formulation and processing parameters, students develop a cost-effective and environmentally friendly detergent powder. This case study highlights the potential for sustainable utilization of

agricultural waste in product innovation, contributing to waste reduction and promoting circular economy principles in the detergent industry.

Case Study – 2 **Chemical Product Design: A new challenge of applied thermodynamics**

In the chemical product design case study, students confront the challenge of integrating applied thermodynamics principles into the development of innovative chemical products. They analyze thermodynamic properties and phase equilibria to optimize formulations, processes, and performance characteristics. Through simulation and experimentation, students navigate complex thermodynamic landscapes to design products with desired properties, such as stability, solubility, and efficacy. This case study underscores the critical role of thermodynamics in guiding product design decisions, fostering a deeper understanding of molecular interactions and energy transformations. Ultimately, students emerge equipped to tackle diverse challenges in chemical product development with a foundation rooted in applied thermodynamics principles.

7. Recommendations for Integrating Experiential Learning:

To integrate experiential learning effectively, institutions should prioritize hands-on activities, industry collaborations, and real-world projects. Embrace diverse pedagogical approaches like Problem-Based Learning (PBL), case studies, and internships to provide practical contexts for learning. Invest in state-of-the-art facilities, simulation tools, and industry partnerships to simulate authentic experiences. Encourage interdisciplinary collaboration and critical reflection to deepen understanding and foster innovation. Provide faculty development programs to enhance teaching skills and support innovative teaching methods. Lastly, prioritize assessment strategies that evaluate practical skills and real-world application, ensuring students are prepared for the complexities of their future careers.

8. Outcome & Conclusion:

Experiential learning in Chemical Engineering yields multifaceted outcomes and conclusions. Students emerge with a robust understanding of theoretical concepts, enhanced by practical application in laboratory settings, industrial internships, and collaborative projects. They develop critical thinking, problem-solving, and teamwork skills essential for success in the field. Through hands-on experiences, students gain confidence in their abilities to tackle real-world challenges, preparing them for diverse career paths in industry, research, and academia.

Furthermore, experiential learning fosters a deep sense of engagement and motivation among students, as they see the tangible impact of their work on solving complex problems. They develop a lifelong learning mindset, continually seeking opportunities to apply their knowledge and skills in new contexts. Ultimately, the conclusion drawn from experiential learning in Chemical Engineering is clear: it is a transformative educational approach that equips students with the practical skills, theoretical knowledge, and professional mindset needed to thrive in the dynamic and evolving field of chemical engineering.

CHEMCIAL ENGINEERING DEPARTMENT

EL TOPICS / ASSIGNEMNTS

Semester III, Academic Year 2023-24

Combined EL

Momentum Transfer (CH233AI), Particulate Technology (CH234AI, Chemical Process Calculations (CH235AT)

Sl. No.	USN	Name of the students	EL Topic / Assignment
1	1RV22CH001	ADITYA SREEKUMAR	Industry Visit – Survey
2	1RV22CH006	ANIRUDH SHARMA	
3	1RV22CH011	FAIZAL ABEDEEN	
4	1RV22CH017	KRITI MAHESHWARI	
5	1RV22CH036	TARUN RANJAN	
6	1RV22CH039	UTKARSH NIJHAWAN	
7	1RV23CH401	K ANANTHAKRISHNA HOLLA	
8	1RV22CH020	MONTEIRO JOSHUA ALBERT	
9	1RV22CH009	DARSHANA MANISH JAIN	
10	1RV22CH010	DEVADIGA TITIKSHA NILESH	
11	1RV22CH013	GOKULRAJ EROTH	
12	1RV22CH018	MEGHA SHIVANAND	
13	1RV22CH022	PRAKRITI CHOUDHARY	
14	1RV22CH026	SAGAR CHACHOLI JOJI	
15	1RV22CH028	SAKSHI GAURAV	
16	1RV23CH403	SHREYAS PRASAD SHETTY	
17	1RV22CH023	PRATHIK BHAWANKAR	Froth Floatation-Experiment design
18	1RV22CH035	SUDHANVA MYSORE SANKARSHAN	
19	1RV23CH400	JITESH A	
20	1RV23CH404	VAISHAK	

21	1RV22CH003	AKSHAT SHUKLA	Virtual Lab (V-Notch)
22	1RV22CH025	JADHAVRAO RUTURAJ AJITRAO	
23	1RV22CH032	SHOURYA ANAND	
24	1RV22CH038	TEJESHWAR	
25	1RV22CH007	CHANDANA C	Virtual lab(Orifice meter)
26	1RV22CH015	HARSHITHA GIRISH	
27	1RV22CH033	SMITHA ROYALS G R	
28	1RV22CH034	SOUGANDHIKA M	
29	1RV22CH008	CHARANYA A R	Application of AR and VR
30	1RV22CH029	SAMEEKSHA K MAYYA	
31	1RV22CH030	SHASHANKH PRABHU MUROOR	
32	1RV22CH040	VEENA SADGUNA VASIMALLA	
33	1RV22CH004	ANANTH RAM Y N	Silicon from Granite Powder
34	1RV22CH014	HALLI ASHRITHA SHETTY	
35	1RV22CH024	RAJESHWARI	
36	1RV22CH041	VIKRAM RAJARAM	
37	1RV22CH002	AJITH P ARUN	Atmospheric water harvesting
38	1RV22CH012	GAYATHRI V	
39	1RV22CH037	TEJASHAVINI VENKAPPA AMALAZERI	
40	1RV23CH402	ROOPASHREE	

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CHEMCIAL ENGINEERING DEPARTMENT

EL TOPICS / ASSIGNEMNTS

Semester 5, Academic Year 2023-24

SL NO.	USN	NAME	EL TOPICS
1	1RV16CH009	GIREESH N	Drought
	1RV17CH016	KUMAR M	
2	1RV18CH001	AKSHIT MAHESH HARTI	Positive Impacts of Vegan Diet on Water Conservation
	1RV18CH019	PAVAN B S	
	1RV18CH028	SOURAV ADITHYA	
	1RV18CH026	SHREY S MEHTA	
3	1RV18CH002	ANANDA	Removal of heavy metal from waste water
	1RV17CH026	PAVAN M KULKARNI	
4	1RV18CH003	ANURADHA SHROFF	Mansagar Lake, Jaipur: A Case Study
	1RV18CH033	TAHER HUSAIN	
	1RV18CH016	MANANG JAIN	
	1RV18CH018	NISHIKANT JALANDRA	
5	1RV18CH004	ASHNI MELISSA MARY PRABHU	Water Conservation in Urban Areas: Overview of Rainwater Harvesting Initiative in Bangalore City”
	1RV18CH012	JACOB ROY	
6	1RV18CH005	ASHWIN RAO PADUBIDRI	Use of Carbon Nanotube Membranes in Wastewater Treatment”
	1RV18CH034	TUSHAR AGRAWAL	
	1RV19CH400	ADITHYA H K	
	1RV18CH039	VINAYAK HULAKE	
7	1RV18CH006	AYUSH AGRAWAL	
	1RV18CH020	PRIYANSHI CHATURVEDI	“A case study of the Narmada River system in India with particular reference to the impact of dams on its ecology and fisheries”
	1RV18CH038	VIBHOR BHARDWAJ	
8	1RV18CH008	DEEKSHASUSHMITH S	Water Management services in CIPLA
	1RV18CH009	G LALITHA SANTOSHI	
	1RV18CH015	MADHU H	
	1RV18CH042	YASHASWINI	
9	1RV18CH010	HARITHA RAJARAM	River Water Management and Case Study on
	1RV18CH011	HARSHITHA N	Yamuna Action Plan

	1RV18CH025	SHRADDHA S SHETTY	
10	1RV18CH017	MUSKAAN AGARWAL	SEWAGE TREATMENT PLANT
11	1RV18CH023	SAURAV C	Removal of heavy metal ions from water
	1RV18CH032	SWATHI C	
	1RV18CH037	VARUN S	
	1RV18CH013	KARTHIK B	
12	1RV18CH024	SHARANYA CHAKRAVARTHI	Study on River water pollution
	1RV18CH027	SHWETA A RAM	
	1RV18CH029	SRIPRIYA U	
	1RV18CH014	KHUSHI VORA	
13	1RV18CH022	SACHITH NAYAK	Artificial Recharge of Ground Water - a review
	1RV18CH036	VARSHA P DINNI	
14	1RV18CH030	SURAJ L	Industrial water conservation by water footprint and sustainable development
	1RV18CH035	UJWAL ARUN MANDI	goals: a review
	1RV18CH040	VISHAL KARWA	
	1RV18CH041	YASH N ATHREYA	

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Sl No.	Name	USN	Topic
1	ABHISHEK S	1RV19CH001	Hydro-dealkylation of Toluene to Benzene
3	CHETAN V PATIL	1RV19CH011	Production of oleum by contact process
5	AMEYA KAMATH	1RV20CH002	Ostwald process
6	BHAVANA SARAVANA	1RV20CH006	Simulation of LNG production
7	BHOOMIKA R HOLLA	1RV20CH007	Production of cumene
8	BHUMIKA G V	1RV20CH008	Glycol dehydration process - gas processing
9	C PUNYASHREE	1RV20CH009	Dynamic simulation of Desuperheater
10	CHETHAN YADAV L	1RV20CH010	Fractional Distillation Column
11	DEEPAK	1RV20CH012	Refrigeration system in gas Processing plant
12	DHANUSH KOTE M	1RV20CH013	Production of ethylene chloride

13	DHANYATHA D P	1RV20CH014	Syngas production
14	DHIVYADHARSHINI N	1RV20CH015	Two stage compression
15	GAGANA VELUR	1RV20CH016	Production of Cyclohexane from Benzene
16	GAURAV SARKAR	1RV20CH017	Ammonia Haber's Process
17	HARISH N	1RV20CH018	Drying Oil Production
18	HIMAMSHU G	1RV20CH019	Debutanizer
19	JANANI GAYATHRI M R	1RV20CH020	Vinyl Chloride Production
20	KRITI AGARWAL	1RV20CH022	Oxygen Synthesis
21	MIHIR PATIL	1RV20CH023	Simulation of styrene production from ethylbenzene.
22	MOHAMMED AFZAN	1RV20CH024	Di-methyl Ether using Natural gas
23	MUNDHE NIKITA	1RV20CH025	Methanol Synthesis
26	PREKSHA S M	1RV20CH028	Aniline production
27	PRIYANKA B	1RV20CH029	Simulation of propane refrigeration cycle
28	S DILIP KUMAR	1RV20CH030	Natural gas dehydration with TEG
29	SAURAV RAJ SATSANGI	1RV20CH032	Binary Distillation
30	SHAMBHAVI SHREE	1RV20CH033	Production of syngas from steam methane (reforming process)
31	SHRIYASH RAJU RANGANEKAR	1RV20CH034	Steam methane reforming
32	SINDHU S RAJ	1RV20CH035	Nitrogen Removal with Cryogenic Distillation
33	SRIHARI G	1RV20CH036	Production of methanol from syngas
34	SRUSTI K	1RV20CH037	Pyrolysis of polypropylene
35	SUMITH RUDRAPUR	1RV20CH038	water electrolysis
36	SUSHMITA JHA	1RV20CH039	Production of n-octane from ethylene and iso-butane
37	SWATI NARAYAN MIRJI	1RV20CH040	Production of Sulphuric Acid (Contact Process)
38	V AKSHAY HARIHARAN	1RV20CH041	Syngas production
39	VARSHA GURURAJ	1RV20CH042	Hydrogen Generation
40	MOHAMMED ZUBAIR	1RV21CH400	Simulation of Titanium Dioxide Production
41	SHREYAS A	1RV21CH401	Di - methyl Ether from Methanol
42	VARUN D S	1RV21CH402	NGL Fractionation plant

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CHEMICALENGINEERING DEPARTMENT

R V COLLEGE OF ENGINEERING

List of Students and Topics for Experiential Learning FOR THE ODD SEMESTER (SEM3)

2022-2023

Group	Name	USN	EL Topic
1	Anirudh bhat	1RV21CH005	Extraction Of (-) Hydroxy citric Acid, Garcinol and Anthocyanin Pigments from Garcinia and Process Design
	Aryan Jain	1RV21CH006	
	Medhavi Srivastava	1RV21CH020	
	Sachin Shanbhag	1RV21CH029	
2	Buvan K C	1RV21CH009	Utilisation of Banana Fibre for Making Wrapping Paper
	Shridhara Dixit	1RV21CH034	
	Devendhu Thattat	1RV21CH013	
	Tejaswini N	1RV21CH037	
3	SHIVANGI RAI	1RV21CH032	Self healing polymeric materials for roads
	OMISHA SINGH	1RV21CH025	
	DARSHU PRIYA K S	1RV21CH012	
	BANDI VIJAYA HETASVI	1RV21CH006	
4	Mangalam Asthana	1RV21CH019	Extraction of Vinblastine Sulphate from Vinca-Rosea Plant Leaves
	Chiklit Bansal	1RV21CH011	
	Shruthishree Srirama	1RV21CH035	
	Waleed Siraj	1RV21CH041	
5	K R Sathya Krishna	1RV21CH017	Extraction of Silica from Burnt Paddy Husk

	Khushi Nitin Shrivastava	1RV21CH016	
	Shashank NB	1RV21CH031	
	Rohit Metry	1RV21CH028	
	Swaroop K	RVCE22BCH401	
6	Vaibhav P Shetty	1RV21CH039	Self cleaning coats
	Gurpur Pavan Pai	1RV21CH014	
	M Vijaya Raghavan	1RV21CH018	
	Abhishek Rao	RVCE22BCH400	
7	Bhavani Srinivaasan	1RV21CH008	Screening of waste water from sugar industry
	Nemani Mihira Gayathri	1RV21CH0	
	Nidhi P	1RV21CH023	
	Sinchana D M	1RV21CH036	
8	Sameer Kulkarni	1RV21CH030	Activated Carbon -From Coconut Shell Using a Fluidised Bed Reactor
	Pramod Shankar T	1RV21CH026	
	Om Telang	1RV21CH024	
	Vidhu Agarwal	1RV21CH040	
9	Harshit sinha	1RV21CH015	Extraction of furfural from sugarcane baggase
	Pranav mishra	1RV21CH027	
	Amrit raj satyam	1RV21CH011	
	Chethan reddy	1RV21CH002	

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CHEMICAL REACTION ENGINEERING

R V COLLEGE OF ENGINEERING

List of Students and Topics for Experiential Learning FOR THE ODD SEMESTER (Sem5) 2022-2023

Sl No	USN	Name	TOPIC
1	1RV19CH001	Abhishek S	Biological Waste Water Treatment and Bioreactor Design: A Review
2	1RV19CH006	ANVITH P HARISH	Methane activation & conversion
3	1RV19CH011	Chetan V Patil	Mixing tank modelling using CFD
4	1RV20CH001	ADITYA S	Reactors for processing hazardous materials
5	1RV20CH002	AMEYA KAMATH	multistep continuous flow synthesis
6	1RV20CH006	BHAVANA SARAVANA	A comparison of continuous flow and sequencing batch reactor plants concerning integrated operation of sewer systems and wastewater treatment plants
7	1RV20CH007	BHOOMIKA R HOLLA	Bioreactors: Membrane bioreactors
8	1RV20CH008	BHUMIKA G V	Reactor models for a series of continuous stirred tank reactors with a gas-liquid-solid leaching system
9	1RV20CH009	C PUNYASHREE	Flow Reactors for Waste Water Treatment
10	1RV20CH010	CHETHAN YADAV L	Bioreactors: Airlift Bioreactors
11	1RV20CH011	DARSHAN PRAKASH P	Applications of aerobic granular sludge sequencing batch reactor
12	1RV20CH012	DEEPAK	Plasma reactors for degradation of PFOA (perfluorooctanoic acid) in water
13	1RV20CH013	DHANUSH KOTE M	Chemical Reaction Engineering and Activated Sludge
14	1RV20CH014	DHANYATHA D P	Microwave reactors: Design, Advantage and applications
15	1RV20CH015	DHIVYADHARSHINI N	Tubular photobioreactor design for algal cultures
16	1RV20CH016	GAGANA VELUR	bioreactors (AnMBR) for the treatment of highly contaminated landfill leachate "
17	1RV20CH017	GAURAV SARKAR	Designing a CSTR for Ethylene Glycol Production
18	1RV20CH018	HARISH N	Reactor modeling in the Petroleum Refining Industry
19	1RV20CH019	HIMAMSHU G	Design of flow reactor for production of dimethyl either
20	1RV20CH020	JANANI GAYATHRI M R	A discussion on Spinning Disk Reactors and Evaluation of SDR Technology for the Manufacture of Pharmaceuticals
21	1RV20CH022	KRITI AGARWAL	Using Mathcad to facilitate the design of chemical reactors involving multiple reactions

22	1RV20CH023	MIHIR PATIL	Bioreactors:Fluidized Bed Bioreactors
23	1RV20CH024	MOHAMMED AFZAN	Bioreactors: Photobioreactors
24	1RV20CH025	MUNDHE NIKITA	Bioreactors:Stirred tank bioreactors
25	1RV20CH026	NOEL LESLEY A K NARRAIN	Optimal operations of Batch reactor
26	1RV20CH027	PRANJAL MISHRA	Reactor Design for Sustainable Process Development
27	1RV20CH028	PREKSHA S M	Membrane Bioreactors for Pharmaceutical Wastewater Treatment
28	1RV20CH029	PRIYANKA B	Scope and Application of Microreactors in small scale organic syntesis and biomedecine
29	1RV20CH030	S DILIP KUMAR	Reactor Selection for Effective Continuous Biocatalytic Production of Pharmaceuticals
30	1RV20CH032	SAURAV RAJ SATSANGI	Chemical Reactor Design Theory and Biological Treatment of Industrial Wastes
31	1RV20CH033	SHAMBHAVI SHREE	Bioreactors: Membrane bioreactors
32	1RV20CH034	SHRIYASH RAJU RANGANEKAR	CFD Simulation Analysis and Optimisation of a Batch Reactor(CSTR)
33	1RV20CH035	SINDHU S RAJ	Biological Waste Water Treatment and Bioreactor Design: A Review
34	1RV20CH036	SRIHARI G	Membrane Bioreactors for treatment of food industry wastewater
35	1RV20CH037	SRUSTI K	Bioreactors:Mist Bioreactors
36	1RV20CH038	SUMITH RUDRAPUR	Sequencing batch Reactors for waste Water Treatment
37	1RV20CH039	SUSHMITA JHA	Chemical Reactor Design Theory and Biological Treatment of Industrial Wastes: Is There a Gap?
38	1RV20CH040	SWATI NARAYAN MIRJI	Activation of Carbon dioxide
39	1RV20CH041	V AKSHAY HARIHARAN	Reactor for processing hazardous material
40	1RV20CH042	VARSHA GURURAJ	Ethanol Production using CSTR (Design, Requirements and Process) (Continous Fermentation Process)
41	RVCE21BCH400	MOHAMMED ZUBAIR	Reactor Design for Methanol synthesis
42	RVCE21BCH401	SHREYAS A	Applications of different types of Bioreactors in bioprocess.
43	RVCE21BCH400	VARUN D S	MIXING BEHAVIOR OF CONTINUOUS STIRRED TANK REACTOR

CHEMICAL REACTION ENGINEERING

R V COLLEGE OF ENGINEERING

List of Students and Topics for Experiential Learning FOR THE ODD SEMESTER (SEM7) 2022-2023

S.No	USN	Name of the student	Title of the Assignment
1	1RV17CH042	VISHNU VARDHAN CHALICHAMA	production of dimethyl ether
2	1RV19CH002	ABHISHEK (R)	vinyl chloride production
3	1RV19CH003	ADITI PANDEY	n-octane from ethylene and isobutane
4	1RV19CH004	ADITI TATA	Sulphuric Acid Manufacturing Plant with Double Absorption Process
5	1RV19CH005	AMRIT AMAN	production of ethanol from ethylene and water
6	1RV19CH007	ARKO BOSE	Amine sweetening unit with MDEA
7	1RV19CH008	ASHWINI OM	simulation of formaldehyde production process.
8	1RV19CH009	ATUL SHARMA	Steam methane reforming
9	1RV19CH010	CHANDANA S	production of benzene from Toluene
10	1RV19CH012	CHITRA AGRAWAL	Chlorobenzene plant production
11	1RV19CH014	HARSH KESHARWANI	Production of Ethyl chloride
12	1RV19CH016	IQRA ARABIA ALI KHAN	Simulation of cyclohexane from benzene hydrogenation using ANSYS
14	1RV19CH018	ISHAAN BHAT	Natural Gas Dehydration - Simulation Process
15	1RV19CH019	MANAV NAGAR	
16	1RV19CH021	NIDHI BHAT	TEG-Gas Contactor Unit
17	1RV19CH022	NISHA G GUDIGAR	PRODUCTION OF DIMETHYL ETHER FROM METHANOL BY DEHYDRATION
18	1RV19CH023	NOORUDDEEN	SIMULATION OF NATURAL GAS TURBO EXPANDER PLANT
19	1RV19CH024	OM MADAN RAIKAR	production of formaldehyde from methanol de-hydrogenation
20	1RV19CH025	PASUPULETI VENKATA SAI DINESH	Production of ammonia.
21	1RV19CH027	PULKIT JAIN	CO2 dehydration and liquefaction

22	1RV19CH029	YASHESH VIJAY RAJYAGURU	Sulphuric Acid Contact Process
23	1RV19CH030	SAMHITA M KIRAN	Ammonia Production
24	1RV19CH031	SELA ROSHNI SHRI	Cumene Production
25	1RV19CH032	SHARVA JOIS	
26	1RV19CH033	SHRAVAN MANJUNATH	SIMULATION OF CYCLOHEXANE PRODUCTION
27	1RV19CH034	SHRAVAN S RANGA	Extractive Distillation to separate Acetone-Water Mixture
28	1RV19CH035	SUPRATIM MAJUMDER	Simulation of Air cooled heat exchanger using UNISIM
29	1RV19CH036	VARSHITH TIPIRNENI	Hydrodealkylation of Toluene to Benzene
30	1RV19CH037	VISHWESH S DESAI	Simulation of complete process for Nitrogen liquefaction
31	1RV19CH038	YASEEN MUNEER	percentage of methane produced in the methanator-hydrogen production
32	1RV19CH039	YUKTHA S S	crude oil seperation
33	1RV19CH401	KIRAN S	
34	1RV20CH400	ABHISHEK M	drying oil production
35	1RV20CH401	JEEVITH A M	Production of Methanol from Synthesis Gases
36	1RV20CH402	VAMSHIKA I	Styrene production from ehtylbenzene

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CHEMICAL REACTION ENGINEERING

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List of Students and Topics for Experiential Learning FOR THE EVEN SEMESTER 2022-2023

Sl No	GROUP	Topic	Name	USN
1	G1	Industry visit with a specific purpose or focus	Mihira	1RV21CH022
			Sinchana	1RV21CH036
			Nidhi	1RV21CH023
			Bhavani	1RV21CH008
2	G2	Statistical Thermodynamics		
			Abhinay kumar	1RV21CH001
			Amrit raj satyam	1RV21CH003
3	G3	Teaching of Fogler	Shruthishree S	1RV21CH035
			Chieklit Bansal	1RV21CH011
			Mangalam Ashthana	1RV21CH019
			Waleed Siraj	1RV21CH041
4	G4	Excel sheets in Chemical Engg	Pranav Mishra	1RV21CH027
			Aryan Jain	1RV21CH006
			Aniruddh Bhat	1RV21CH005
			harshit sinha	1RV21CH015
5	G5	Innovative experiment	medhavi	1RV21CH020
			sachin	1RV21CH029
			Sameer Kulkarni	1RV21CH030
			tejaswini	1RV21CH037
6	G6	Designing of new experiment for the lab(CRE,MOT, HT, PT)	swaroop	1RV22CH404
			anushree	1RV22CH401
			keerthan m Shetty	1RV22CH403
			ganesh	1RV21CH012
7	G7	Kinetic studies of Bioreactors for Muncipal	Vaibhav Shetty	1RV21CH039
			Pavan Pai	1RV21CH014
			Vijaya Raghavan	1RV21CH018

		water treatment	chethan N	1RV21CH010
8	**G8**	**Any programing language Python/MATLAB/Java**	Shivangi Rai	1RV21CH032
			Bandi Vijaya Hetasvi	1RV21CH007
			Omisha Singh	1RV21CH025
			Darshupriya	1RV21CH012
9	**G9**	**Unsteady state chemical Engg Problems in HT,MT,MOT**	Vidhu Agarwal	1RV21CH040
			Pramod Shankar T	1RV21CH026
			Om Sanjay Telang	1RV21CH024
10	**G10**	**Engineering in Flood management/ Volcano eruptions**	K R Sathya Krishna	1RV21CH017
			Rohit Metry	1RV21CH028
			Khushi Shrivastava	1RV21CH016
			Shashank NB	1RV21CH031
11	**G11**	**AI&ML enabled personalized tutor**	Buvan K C	1RV21CH009
			Shridhara A Dixit	1RV21CH034
			Devendhu thattat	1RV21CH013
			Abhishek S Rao	1RV22CH400

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CHEMICAL REACTION ENGINEERING

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Self-study topics - Process Simulation and Modeling (18CH73)

2021-22 Odd Semester

Sl No	**USN**	**Name of student**	**Topic**
1	1RV16CH009	GIREESH N	Production of Syngas using steam Methane: process simulation
2	1RV17CH016	KUMAR M	Production of Syngas using steam Methane: process simulation
3	1RV17CH026	PAVAN M KULKARNI	Simulation of Refrigeration cycle in Aspen

4	1RV18CH001	AKSHIT MAHESH HARTI	Extractive Distillation of Ethanol and Benzene from P-Xylene
5	1RV18CH002	ANANDA	Simulation of aromatic stripper
6	1RV18CH003	anuradha shroff	Liquefaction of biogas
7	1RV18CH004	ASHNI MELISSA MARY PRABHU	Production of Dinitrotoulene from toulene
8	1RV18CH005	ASHWIN RAO PADUBIDRI	Production of Ammonia: Process Simulation
9	1RV18CH006	AYUSH AGRAWAL	Simulation and Heat Recovery from Sour Water Stripping Process Using Unisim
10	1RV18CH008	DEEKSHASUSHMITH S	Simulation of Contact Process
11	1RV18CH009	G LALITHA SANTOSHI	methanol plant simulation
12	1RV18CH010	HARITHA RAJARAM	Simulation of the process of liquefaction of carbon dioxide
13	1RV18CH011	HARSHITHA N	Simulation of benzene production from Toluene
14	1RV18CH012	JACOB ROY	Synthesis of Ammonia in Cryogenic Process
15	1RV18CH013	KARTHIK B	Simulation of Steam Methane reforming process
16	1RV18CH014	KHUSHI VORA	Simulation of manufacturing process of paracetamol (PfR)
17	1RV18CH015	MADHU H	crude oil simulation
18	1RV18CH016	MANANG JAIN	Dimethylformamide Production using Methanol Dehydrogenation Process
19	1RV18CH017	MUSKAAN AGARWAL	Optimisation of Methanol Synthesis by CO2 Hydrogenation
20	1RV18CH018	NISHIKANT JALANDRA	simulation of Propylene-Propane Separation using Mechanical Vapor Recompression
21	1RV18CH019	PAVAN B S	Separation of Benzene-Ethanol mixture using Pressure Swing Distillation
22	1RV18CH020	PRIYANSHI CHATURVEDI	Simulation of Propane Refrigeration cycle
23	1RV18CH022	SACHITH NAYAK	Simulation of syngas production from Steam methane reforming process
24	1RV18CH023	SAURAV C	Drying oil production
25	1RV18CH024	SHARANYA CHAKRAVARTHI	Simulation of formaldehyde production from methanol
26	1RV18CH025	SHRADDHA S SHETTY	Simulation of a Natural Gas Turbo Expander Plant
27	1RV18CH026	SHREY S MEHTA	Effluent Treatment Plant

28	1RV18CH027	SHWETA A RAM	Dimethyl Ether Production from methonal dehydration
29	1RV18CH028	SOURAV ADITHYA	Steady State Simulation of Separation Column for Propylene - Propane Mixture
30	1RV18CH029	SRIPRIYA U	Simulation of cyclohexane production from benzene by hydrogenation
31	1RV18CH030	SURAJ L	simulation of ethylacetate manufacturing process
32	1RV18CH032	SWATHI C	Production of ethylene oxide
33	1RV18CH033	TAHER HUSAIN	Manufacture of Paracetamol(CSTR)
34	1RV18CH034	TUSHAR AGRAWAL	Production of Syngas using steam Methane: process simulation
35	1RV18CH035	UJWAL ARUN MANDI	Manufacture of H2SO4
36	1RV18CH036	VARSHA P DINNI	Natural liquid gas recovery simulation
37	1RV18CH037	VARUN S	Production of Styrene from toluene and methanol: Process Simulation
38	1RV18CH038	VIBHOR BHARDWAJ	Liquefaction of Biogas
39	1RV18CH039	VINAYAK HULAKE	Toluene production from heptane with conversion reactor
40	1RV18CH040	VISHAL KARWA	Manufacture of Ethylchloride using Unisim
41	1RV18CH041	YASH N ATHREYA	Production of Cyclohexane
42	1RV18CH042	YASHASWINI	Cumene production
43	1RV19CH400	ADITHYA H K	styrene production from ethylbenzene

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CHEMICAL REACTION ENGINEERING

R V COLLEGE OF ENGINEERING

Self-study topics - SUB: Food Technology (18CH6C4) 2019 Batch

2021-22 even Semester

S.No	**USN**	**Name of the student**	**Title of the Assignment**
1	1RV19CH001	ABHISHEK S	Nanomaterials in food packaging
2	1RV19CH002	ABHISHEK	Biochemical Case Histories

3	1RV19CH004	ADITI TATA	Manufacturing of milk powder
4	1RV19CH009	Atul Sharma	Space food- Production and Preservation
5	1RV19CH011	CHETAN V PATIL	Food Flavours
6	1RV19CH012	CHITRA AGRAWAL	poultry processing
7	1RV19CH015	HASHIM PP	Fruit juice processing
8	1RV19CH021	NIDHI BHAT	Sustainability growth in food industry
9	1RV19CH022	Nisha G Gudigar	Vegan Food Growth and Processing in food industry
10	1RV19CH023	NOORUDDEEN	Enzyme application in dairy industry.
11	1RV19CH030	SAMHITA M KIRAN	Food laws and quality assurance
12	1RV19CH032	SHARVA JOIS	Processing of nuts
13	1RV19CH033	SHRAVAN MANJUNATH	Effluent treatment in food industries
14	1RV19CH034	SHRAVAN S RANGA	Coffee processing
15	1RV19CH037	VISHWESH S DESAI	Food- Drug Interactions
16	1RV19CH039	YUKTHA S S	BIiofortification of food
17	1RV20CH400	ABHISHEK M	White wine and Cognac production
18	1RV19CH401	KIRAN	Diary processing

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CHEMICAL REACTION ENGINEERING

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List of Students

2020-2021 (ODD 5th Semester)

Sl .No	**USN**	**Name of The Student**	**Topic of EL / PBL**
I	1RV18CH024	Sharanya C	Data Analysis of some important rivers in India
2	1RV18CH027	Shweta A Ram	Data Analysis of some important rivers in India
3	1RV18CH020	Priyanshi Chaturvedi	Statistical analysis of heliophysics data
4	1RV18CH006	Ayush Agrawal	Statistical analysis of heliophysics data

5	1RV17CH041	Yash Athreya	Instrumental methods of analysis for food quality testing and degradation
6	1RV18CH035	Ujwal Mandy	Instrumental methods of analysis for food quality testing and degradation
7	1RV18CH040-	Vishal karwa	Study of instrumental methods used for studying effect of food packaging material on environment
8	1RV18CH022	Sachith Nayak	Study of instrumental methods used for studying effect of food packaging material on environment
9	1RV18CH016	Manang Jain	Data Analysis for statical discharge of Van de Graff Generator
10	1RV18CH033	Taher Husain	COmponents of solar cells and orientation of solar panels.
11	1RV18CH003	Anuradha Shroff	COmponents of solar cells and orientation of solar panels.
12	1RV18CH015-	Madhu H	Data analysis and image analysis of acid rain on earthen plasters
13	1RV18CH008-	Deekshasusmit h S	Data analysis and image analysis of acid rain on earthen plasters
14	1RV18CH011-	Harshitha N	Data Analysis of Covid-19 datasets
15	1RV18CH025-	Shraddha S Shetty	Data Analysis of Covid-19 datasets
16	1RV18CH014-	Khushi Vora	Data analysis of archaeological objects
17	1RV18CH029-	Sripriya U	Data analysis of archaeological objects
18	1RV18CH037	- Varun S	Handling and analysis of XRD data
19	1RV18CH013	- Karthik B	Handling and analysis of XRD data

20	1RV18CH019-	Pavan B S	IMA in art restoration.
21	Vibhor Bhardwaj	Vibhor Bhardwaj	IMA in art restoration.
22	1RV18CH032-	Swathi C	analysis of the hygienic condition of canteen food services
23	1RV18CH023-	Saurav C	analysis of the hygienic condition of canteen food services
24	1RV19CH400 -	Adithya H K	Infrared Spectroscopy for Food Quality Analysis and Control(Milk and Dairy Products)
25	1RV18CH039-	Vinayak Hulake	Infrared Spectroscopy for Food Quality Analysis and Control(Milk and Dairy Products)
26	1RV18CH042 -	Yashaswini N	Raman spectroscopy for quality assessment of meat and fish
27	1RV18CH030 -	- Suraj L	Raman spectroscopy for quality assessment of meat and fish
28	1RV18CH036-	Varsha P	instrumental analysis and preparation of shrikhand
29	1RV18CH009-	Lalitha santoshi	instrumental analysis and preparation of shrikhand
30	1RV18CH010-	Haritha Rajaram	Use of X rays and Gamma rays to detect chemical composition of Mars
31	1RV18CH011	Muskaan Agarwal	Use of X rays and Gamma rays to detect chemical composition of Mars
32	1RV18CH018-	NISHIKANT JALANDRA	Use of NMR spectorscopy to detect toxins in a tissue/cell samples
33	1RV18CH005-	ASHWIN RAO	Use of NMR spectorscopy to detect toxins in a tissue/cell samples
34	1RV18CH002-	Ananda	Acid Rain

35	1RV17CH026-	Pavan MK	Acid Rain
36	1RV18CH001	- Akshit M Harti	Data analysis on Climate Change
37	1RV18CH026 -	Shrey S Mehta	Data analysis on Climate Change
38	1RV18CH028-	Sourav Adithya	Prediction of Net Electrical Energy output of a combined cycle power Plant
39	1RV18CH028-	Ashni Prabhu	Prediction of Net Electrical Energy output of a combined cycle power Plant
40	1RV18CH012-	Jacob Roy	High Performance Liquid Chromatography in Forensics

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SELF STUDY TOPICS FOR THE YEAR 2021-22 (ODD)

Sl No	USN	Name of student	Self Study Topics
1	1RV17CH026	PAVAN M KULKARNI	
2	1RV16CH009	GIRISH	Biological Waste Water Treatment and Bioreactor Design: A Review
3	1RV17CH016	KUMAR	Methane activation & conversion
4	1RV18CH001	AKSHIT MAHESH HARTI	Mixing tank modelling using CFD
5	1RV18CH002	ANANDA	Reactors for processing hazardous materials
6	1RV18CH003	ANURADHA SHROFF	multistep continuous flow synthesis
7	1RV18CH004	ASHNI MELISSA MARY PRABHU	A comparison of continuous flow and sequencing batch reactor plants concerning integrated operation of sewer systems and wastewater treatment plants
8	1RV18CH005	ASHWIN RAO PADUBIDRI	Bioreactors: Membrane bioreactors

9	1RV18CH006	AYUSH AGRAWAL	Reactor models for a series of continuous stirred tank reactors with a gas-liquid-solid leaching system
10	1RV18CH008	DEEKSHASUSHMITH S	Flow Reactors for Waste Water Treatment
11	1RV18CH009	G LALITHA SANTOSHI	Bioreactors: Airlift Bioreactors
12	1RV18CH010	HARITHA RAJARAM	Applications of aerobic granular sludge sequencing batch reactor
13	1RV18CH011	HARSHITHA N	Plasma reactors for degradation of PFOA (perfluorooctanoic acid) in water
14	1RV18CH012	JACOB ROY	Chemical Reaction Engineering and Activated Sludge
15	1RV18CH013	KARTHIK B	Microwave reactors: Design, Advantage and applications
16	1RV18CH014	KHUSHI VORA	Tubular photobioreactor design for algal cultures
17	1RV18CH015	MADHU H	bioreactors (AnMBR) for the treatment of highly contaminated landfill leachate "
18	1RV18CH016	MANANG JAIN	Designing a CSTR for Ethylene Glycol Production
19	1RV18CH017	MUSKAAN AGARWAL	Reactor modeling in the Petroleum Refining Industry
20	1RV18CH018	NISHIKANT JALANDRA	Design of flow reactor for production of dimethyl either
21	1RV18CH019	PAVAN B S	A discussion on Spinning Disk Reactors and Evaluation of SDR Technology for the Manufacture of Pharmaceuticals
22	1RV18CH020	PRIYANSHI CHATURVEDI	Using Mathcad to facilitate the design of chemical reactors involving multiple reactions
23	1RV18CH022	SACHITH NAYAK	Bioreactors:Fluidized Bed Bioreactors
24	1RV18CH023	SAURAV C	Bioreactors: Photobioreactors
25	1RV18CH024	SHARANYA CHAKRAVARTHI	Bioreactors:Stirred tank bioreactors
26	1RV18CH025	SHRADDHA S SHETTY	Optimal operations of Batch reactor
27	1RV18CH026	SHREY S MEHTA	Reactor Design for Sustainable Process Development
28	1RV18CH027	SHWETA A RAM	Membrane Bioreactors for Pharmaceutical Wastewater Treatment
29	1RV18CH028	SOURAV ADITHYA	Scope and Application of Microreactors in small scale organic syntesis and biomedecine

30	1RV18CH029	SRIPRIYA U	Reactor Selection for Effective Continuous Biocatalytic Production of Pharmaceuticals
31	1RV18CH030	SURAJ L	Chemical Reactor Design Theory and Biological Treatment of Industrial Wastes
32	1RV18CH032	SWATHI C	Bioreactors: Membrane bioreactors
33	1RV18CH033	TAHER HUSAIN	CFD Simulation Analysis and Optimisation of a Batch Reactor(CSTR)
34	1RV18CH034	TUSHAR AGRAWAL	Biological Waste Water Treatment and Bioreactor Design: A Review
35	1RV18CH035	UJWAL ARUN MANDI	Membrane Bioreactors for treatment of food industry wastewater
36	1RV18CH036	VARSHA P DINNI	Bioreactors:Mist Bioreactors
37	1RV18CH037	VARUN S	Sequencing batch Reactors for waste Water Treatment
38	1RV18CH038	VIBHOR BHARDWAJ	Chemical Reactor Design Theory and Biological Treatment of Industrial Wastes: Is There a Gap?
39	1RV18CH039	VINAYAK HULAKE	Activation of Carbon dioxide
40	1RV18CH040	VISHAL KARWA	Reactor for processing hazardous material
41	1RV18CH041	YASH N ATHREYA	Ethanol Production using CSTR (Design, Requirements and Process) (Continous Fermentation Process)
42	1RV18CH042	YASHASWINI	Reactor Design for Methanol synthesis
43	1RV19CH400	ADITHYA H K	Applications of different types of Bioreactors in bioprocess.
44	1RV19CH401	KIRAN	
45	1RV17CH027	POCHAREDDY TEJASWINI REDDY	MIXING BEHAVIOR OF CONTINUOUS STIRRED TANK REACTOR

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List of Students and Topics for Experiential Learning FOR THE EVEN SEMESTER (SEM 6) 2020-2021

	Self-study topics - Food Technology (18CH6C4)		
Sl No	**USN**	**Name of student**	**Topic**
1	1RV17CH026	PAVAN M KULKARNI	Beer and Whiskey manufacture
2	1RV18CH001	AKSHIT MAHESH HARTI	Scotch manufacture (Lagavulin)
3	1RV18CH004	ASHNI MELISSA MARY PRABHU	Classification of enzymes
4	1RV18CH006	AYUSH AGRAWAL	Soft drinks manufacturing process
5	1RV18CH008	DEEKSHASUSHMITH S	Processing and manufacture of canned foods
6	1RV18CH009	G LALITHA SANTOSHI	food toxicity
7	1RV18CH010	HARITHA RAJARAM	Control of microbial poisoning in food
8	1RV18CH011	HARSHITHA N	Processing and manufacturing of Tea
9	1RV18CH012	JACOB ROY	Protein Powder Synthesis
10	1RV18CH013	KARTHIK B	Food safety in food and beverage plant
11	1RV18CH014	KHUSHI VORA	Organic food
12	1RV18CH015	MADHU H	Nanomaterials in food packaging
13	1RV18CH017	MUSKAAN AGARWAL	Biochemical Case Histories
14	1RV18CH019	PAVAN B S	Manufacturing of milk powder
15	1RV18CH020	PRIYANSHI CHATURVEDI	Space food- Production and Preservation
16	1RV18CH022	SACHITH NAYAK	Food Flavours
17	1RV18CH023	SAURAV C	poultry processing
18	1RV18CH024	SHARANYA CHAKRAVARTHI	Fruit juice processing
19	1RV18CH025	SHRADDHA S SHETTY	Sustainability growth in food industry
20	1RV18CH026	SHREY S MEHTA	Vegan Food Growth and Processing in food industry

21	1RV18CH027	SHWETA A RAM	Enzyme application in dairy industry.
22	1RV18CH028	SOURAV ADITHYA	Food laws and quality assurance
23	1RV18CH029	SRIPRIYA U	Processing of nuts
24	1RV18CH030	SURAJ L	Effluent treatment in food industries
25	1RV18CH032	SWATHI C	Coffee processing
26	1RV18CH033	TAHER HUSAIN	Food- Drug Interactions
27	1RV18CH034	TUSHAR AGRAWAL	BIiofortification of food
28	1RV18CH035	UJWAL ARUN MANDI	White wine and Cognac production
29	1RV18CH036	VARSHA P DINNI	diary processing
30	1RV18CH037	VARUN S	Food Adulteration
31	1RV18CH038	VIBHOR BHARDWAJ	IoT in food industry
32	1RV18CH039	VINAYAK HULAKE	Food preservation and processing
33	1RV18CH040	VISHAL KARWA	Drying process and technology in food industries
34	1RV18CH041	YASH N ATHREYA	Processing and Manufacture of Sugar
35	1RV18CH042	YASHASWINI	Cereal processing
36	1RV19CH400	ADITHYA H K	Food packaging

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CHEMICALENGINEERING DEPARTMENT
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List of Students

2020-2021 (EVEN 6th Semester)

Sl .No	**USN**	**Name of The Student**	**Topic of EL / PBL**
I	1RV17CH042	Vishnu Vardhan Chalichama	3D Development of a Calendria Evaporator

2	1RV19CH025	Pasupuleti Venkata Sai Dinesh	3D Development of a Calendria Evaporator
3	1RV19CH033	Shravan Manjunath	3D Development of a Calendria Evaporator
4	1RV19CH002	Abhishek	Design and Selection of column internals
5	1RV20CH400	Abhishek M	Design and Selection of column internals
6	1RV19CH023	Nooruddeen	Design and Selection of column internals
7	1RV19CH004	Aditi Tata	Sketch of Newton
8	1RV19CH003	Aditi Pandey	Specific heat calculator
9	1RV19CH029	Yashesh Vijay Rajyaguru	Specific heat calculator
10	1RV19CH036	Varshith Tipirneni	Specific heat calculator
11	1RV19CH034	Shravan S Ranga	Specific heat calculator
12	1RV19CH007	Arko Bose	Design decisions in HE design
13	1RV19CH027	Pulkit Jain	Design decisions in HE design
14	1RV19CH030	Samhita M Kiran	Design decisions in HE design
15	1RV19CH031	Sela Roshni Shri	Design decisions in HE design
16	1RV19CH008	Ashwini Om	3D - Model development of plate columns
17	1RV19CH009	Atul Sharma	3D - Model development of plate columns
18	1RV19CH010	Chandana S	3D - Model development of plate columns
19	1RV19CH014	Harsh Kesharwani	Design of s/w application for Ponchon Savarit method
20	1RV19CH035	Supratim Majumder	Design of s/w application for Ponchon Savarit method
21	1RV19CH012	Chitra Agrawal	Design of s/w application for Ponchon Savarit method
22	1RV19CH037	Vishwesh S Desai	Design of s/w application for Ponchon Savarit method
23	1RV19CH016	Iqra Arabia Ali Khan	General design considerations : Pressure Vessel
24	1RV19CH021	Nidhi Bhat	General design considerations : Pressure Vessel
25	1RV19CH018	Ishaan Bhat	Green Design Life in and after engineering
26	1RV19CH022	Nisha G Gudigar	Safety and Loss Prevention in Design
27	1RV19CH024	Om Madan Raikar	Safety and Loss Prevention in Design
28	1RV20CH401	Jeevith A M	Material of Construction
29	1RV20CH402	Vamshika I	Material of Construction

CHEMICALENGINEERING DEPARTMENT
R V COLLEGE OF ENGINEERING

Self-study topics - Process Simulation and Modeling (18CH73)

2021-22 Odd Semester

Sl No	USN	Name of student	Topic
1	1RV16CH009	GIREESH N	Production of Syngas using steam Methane: process simulation
2	1RV17CH016	KUMAR M	Production of Syngas using steam Methane: process simulation
3	1RV17CH026	PAVAN M KULKARNI	Simulation of Refrigeration cycle in Aspen
4	1RV18CH001	AKSHIT MAHESH HARTI	Extractive Distillation of Ethanol and Benzene from P-Xylene
5	1RV18CH002	ANANDA	Simulation of aromatic stripper
6	1RV18CH003	anuradha shroff	Liquefaction of biogas
7	1RV18CH004	ASHNI MELISSA MARY PRABHU	Production of Dinitrotoulene from toulene
8	1RV18CH005	ASHWIN RAO PADUBIDRI	Production of Ammonia: Process Simulation
9	1RV18CH006	AYUSH AGRAWAL	Simulation and Heat Recovery from Sour Water Stripping Process Using Unisim
10	1RV18CH008	DEEKSHASUSHMITH S	Simulation of Contact Process
11	1RV18CH009	G LALITHA SANTOSHI	methanol plant simulation
12	1RV18CH010	HARITHA RAJARAM	Simulation of the process of liquefaction of carbon dioxide
13	1RV18CH011	HARSHITHA N	Simulation of benzene production from Toluene
14	1RV18CH012	JACOB ROY	Synthesis of Ammonia in Cryogenic Process
15	1RV18CH013	KARTHIK B	Simulation of Steam Methane reforming process
16	1RV18CH014	KHUSHI VORA	Simulation of manufacturing process of paracetamol (PfR)
17	1RV18CH015	MADHU H	crude oil simulation

18	1RV18CH016	MANANG JAIN	Dimethylformamide Production using Methanol Dehydrogenation Process
19	1RV18CH017	MUSKAAN AGARWAL	Optimisation of Methanol Synthesis by CO2 Hydrogenation
20	1RV18CH018	NISHIKANT JALANDRA	simulation of Propylene-Propane Separation using Mechanical Vapor Recompression
21	1RV18CH019	PAVAN B S	Separation of Benzene-Ethanol mixture using Pressure Swing Distillation
22	1RV18CH020	PRIYANSHI CHATURVEDI	Simulation of Propane Refrigeration cycle
23	1RV18CH022	SACHITH NAYAK	Simulation of syngas production from Steam methane reforming process
24	1RV18CH023	SAURAV C	Drying oil production
25	1RV18CH024	SHARANYA CHAKRAVARTHI	Simulation of formaldehyde production from methanol
26	1RV18CH025	SHRADDHA S SHETTY	Simulation of a Natural Gas Turbo Expander Plant
27	1RV18CH026	SHREY S MEHTA	Effluent Treatment Plant
28	1RV18CH027	SHWETA A RAM	Dimethyl Ether Production from methonal dehydration
29	1RV18CH028	SOURAV ADITHYA	Steady State Simulation of Separation Column for Propylene - Propane Mixture
30	1RV18CH029	SRIPRIYA U	Simulation of cyclohexane production from benzene by hydrogenation
31	1RV18CH030	SURAJ L	simulation of ethylacetate manufacturing process
32	1RV18CH032	SWATHI C	Production of ethylene oxide
33	1RV18CH033	TAHER HUSAIN	Manufacture of Paracetamol(CSTR)
34	1RV18CH034	TUSHAR AGRAWAL	Production of Syngas using steam Methane: process simulation
35	1RV18CH035	UJWAL ARUN MANDI	Manufacture of H2SO4
36	1RV18CH036	VARSHA P DINNI	Natural liquid gas recovery simulation
37	1RV18CH037	VARUN S	Production of Styrene from toluene and methanol: Process Simulation
38	1RV18CH038	VIBHOR BHARDWAJ	Liquefaction of Biogas
39	1RV18CH039	VINAYAK HULAKE	Toluene production from heptane with conversion reactor
40	1RV18CH040	VISHAL KARWA	Manufacture of Ethylchloride using Unisim
41	1RV18CH041	YASH N ATHREYA	Production of Cyclohexane
42	1RV18CH042	YASHASWINI	Cumene production

43	1RV19CH400	ADITHYA H K	styrene production from ethylbenzene

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Assignment Topics 2019-2020 (odd)

16CH71 Transport Phenomena

Sl No.	USN	NAME	Topic
1	1RV16CH001	AKANSHA SHETY	Explore how mass transfer principles apply to biological systems, such as drug delivery, oxygen transfer in tissues, or nutrient transport in plants.
	1RV16CH002	AKASH G KULKARNI	
	1RV16CH003	AKHIL N V	
	1RV16CH004	ANIRUDDHA S	
2	1RV16CH005	ASHISH JOHN THOMAS	Investigate the principles of heat transfer in electronic devices, focusing on cooling methods such as conduction, convection, and radiation, and their applications in improving device performance and reliability.
	1RV16CH008	FARAAZ MOHAMMED IKRAM	
	1RV16CH010	HARSHITH RATHORE	
	1RV16CH012	HARSHAVARDHAN REDDY K	
3	1RV16CH013	MRINALINI GOWDA	Fluid Flow in Porous Media: Analyze the flow of fluids through porous materials
	1RV16CH014	PRERAN RAO P	
	1RV16CH015	PRANJAL ANAND	
	1RV16CH016	PRATYUSH KUMAR	
	1RV16CH017	DEEPAK PRSAD	
4	1RV16CH018	RAHUL O	

	1RV16CH019	RAJANIKANTH LAMANI	Transport Phenomena in Chemical Reactors: Study how mass, heat, and momentum transfer influence chemical reactions in reactors
	1RV16CH021	RISHAB KARAMCHANDANI	
	1RV16CH022	RITHISHA M	
5	1RV16CH023	SARTAHK MANCHANDA	Explore the role of transport phenomena in environmental processes such as air and water pollution dispersion, sediment transport, and contaminant migration in soil.
	1RV16CH025	SHREYAS M	
	1RV16CH027	SNEHA S	
	1RV16CH028	SOLANKI PRASAD AMAR	
6	1RV16CH029	SUBHASHISH YADAV	Transport Phenomena in Food Processing: Investigate the application of transport phenomena principles in food processing operations
	1RV16CH030	SUHASH K S	
	1RV16CH031	SUMAN	
	1RV16CH032	TEJAS JOSE	
7	1RV16CH034	VEERABADRA SHARMA	The principles of membrane transport in biomedical applications
	1RV16CH035	VIDIYALA SHREYA	
	1RV16CH036	VIKRAM RAGHAVENDRA RAO	
	1RV16CH037	VIVEK CHANDRAN	
	1RV16CH038	YASH RAJESH BHAT	
8	1RV16CH039	ZAKIYA TABASSUM	Transport Phenomena in Nanotechnology: Explore how transport phenomena govern the behavior of fluids
	1RV16CH040	SUMAN C	
	1RV17CH400	RANGANATH M	
	1RV17CH401	RAVI TEJA K A	
9	1RV17CH403	YASHWANTH P	Transport Phenomena in Energy Systems: Analyze the role of transport phenomena in energy conversion and storage technologies
	1RV17CH402	SHIVABALU M	
	1RV15CH028	SHALOM NATHANIEL OGURI	
	1RV15CH043	PARTH BHARDWAJ	

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CHEMICAL REACTION ENGINEERING

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List of Students and Topics for Experiential Learning FOR THE ODD SEMESTER 2018-2019

Sl No	USN	Name	Topic
1	1RV17CH007	AZHAGIRI VIGNESH R	Chemical Equilibrium as Balance of the Thermodynamic Forces
2	1RV17CH020	MANPREET SINGH ARORA	
3	1RV17CH017	LIBIN LAL	
4	1RV17CH015	KARTHIK R S	
5	1RV17CH011	GNANA SOUNDARYA V	Practical chemical thermodynamics for geoscientists
6	1RV17CH008	BISHAL DHAR	
7	1RV17CH024	PARIDHI GARG	
8	1RV17CH019	MAHIMA GUPTA	
9	1RV17CH012	GOKUL PRAKASH	Energy Technology Data Exchange
10	1RV17CH022	NEETHA R HEGDE	
11	1RV17CH018	MADHUSHREE R	
12	1RV17CH005	ASHUTOSH KOHLI	
13	1RV17CH014	JANGAM ADITYA JITENDRA	Elements of chemical thermodynamics
14	1RV17CH013	HIMANSHU KALWAR	
15	1RV17CH004	AMRITESH KUMAR	
16	1RV17CH028	RUTUJA AJJANNAVAR	
17	1RV17CH039	VARSHAL S ULLAL	Diffusion approximations to the chemical master equation only have a consistent stochastic thermodynamics at chemical equilibrium.
18	1RV17CH002	ADITYA KUMAR	
19	1RV17CH025	PARTH GARG	
20	1RV17CH029	SAHANA ANANTH GANGOLLI	
21	1RV16CH024	SHANKARAYYA S RUDRAPUR	Chemical Thermodynamics and Information Theory with Applications
22	1RV16CH026	SHREYASH RATHI	
23	1RV17CH030	SAI SHREYAS S	
24	1RV17CH036	SONIYA B DHAYARKAR	
25	1RV17CH038	SUSHANTHA M	Chemical Product Design: A new challenge of applied thermodynamics
26	1RV17CH035	SHRESTH BASU	
27	1RV17CH032	SANTHOSH KUMARAN	

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CHEMICAL REACTION ENGINEERING

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Self-study topics - Renewable Energy Technology (16CH5A2) 2016 Batch

2018-19 Odd Semester

S.No	USN	Name of the student	Title of the Assignment
1	1RV15CH043	PARTH BHARDWAJ	Photovoltaic (PV) technology
2	1RV15CH028	SHALOM NATHANIEL OGURI	
3	1RV16CH001	AKANKSHA SHETTY	Concentrated Solar Power (CSP)
4	1RV16CH012	KALAKOTA HARSHAVARDHAN REDDY	
5	1RV16CH013	MRUNALINI S GOWDA	Solar thermal systems
6	1RV16CH019	RAJANIKANT LAMANI	
7	1RV16CH021	RISHAB KARAMCHANDANI	Thin-film solar cells
8	1RV16CH023	SARTHAK MANCHANDA	
9	1RV16CH025	SHREYAS M	Solar tracking systems
10	1RV16CH028	SOLANKI PRASAD AMAR	
11	1RV16CH029	SUBHASHISH YADAV	
12	1RV16CH030	SUHAS K S	Photovoltaic (PV) technology

14	1RV16CH031	SUMAN	Biomass conversion technologies (anaerobic digestion, pyrolysis, gasification)
15	1RV16CH032	TEJAS JOSE	
16	1RV16CH034	VEERBHADRA SHARMA	Biogas production
17	1RV16CH035	VIDIYALA SHREYA	
18	1RV16CH040	SUMAN C	Biofuel production (bioethanol, biodiesel)
19	1RV17CH400	RANGANATHA M	
20	1RV17CH401	RAVI TEJA K A	Materials for energy capture and storage
21	1RV17CH402	SHIVABALU M	
22	1RV17CH403	YASHWANTH P	

DEPARTMENT CHEMICAL ENGINEERING
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Date
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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

This report explores the importance and benefits of experiential learning practices in the Department. It examines various methods and approaches used in experiential learning and highlights their impact on student engagement, skill development, and overall learning outcomes. Additionally, the report discusses the challenges and opportunities associated with implementing experiential learning initiatives and provides recommendations for educators and institutions looking to integrate experiential learning into their curriculum.

Table of Contents:

1. Introduction:

Experiential learning is an educational approach that emphasizes learning through experience, reflection, and application. It involves hands-on activities, real-world problem-solving, and active engagement with the subject matter. In the context of AI & ML (Artificial Intelligence & Machine Learning), experiential learning plays a crucial role in bridging the gap between theoretical knowledge and practical skills, preparing students for the demands of the rapidly evolving technological landscape. AI & ML thrive on real-world data and applications. Experiential learning provides students with opportunities to work on real-world datasets and problems, allowing them to develop practical skills that are directly applicable in industry settings.

2. Theoretical Framework of Experiential Learning:

Here, the report delves into the theoretical underpinnings of experiential learning, including models such as Kolb's Experiential Learning Cycle and Dewey's theory of learning by doing (PBL). It explores how these theories inform the design and implementation of experiential learning practices.

3. Types and Approaches of Experiential Learning

This section discusses various types and approaches of experiential learning, such as internships, project-based learning, and simulations. It examines the characteristics of each approach and provides examples of how they are used in different educational contexts.

Years wise Broad Topics

2023-24		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1	II - Semester has started now IV & VI – Semester – Yet to start	FCPS - Industrial CPS,Smart Hospitals and wards,Intelligent Transportation ,Fraud detection in Financial Institution ,CPS in Supply Chain Management,Supply chain management - Dairy ,Smart City,Predictive maintenance of Industrial Equipment ,CPS In Agriculture ,Air BnB,Cyber Security,CPS in F1 Racing,CPS in Smart Homes,Smart Cities ,CPS in Retail Industry,CPS in traffic Management System ,CPS in Healthcare,Weather Station
2		A Comprehensive Analysis of Netflix Ratings Dataset Cricket Statistics, State-wise crop rotation in India, Car sales in India (2019-2021), Visualizing the impact of Covid 19 to prevent future epidemic, Crop analysis in North and Southern parts of India,Diabetes Awareness using common health statistics
3		Chatbots and applications using NLP for various domains like healthcare, education FinTech and so on.
4		Data analysis on various datasets using Numpy, Pandas and Matplotlib APIs
5		Sorting, Searching, Mathematical and Scientific equations, Calculator, Reservation system, Calendar
6		Case Studies on different Search Engines like Google, Yahoo, Bing, Duckduckgo etc.
7		Essay writing in various topics such as Winter season, summer season, technology, pollution, traffic, science, music, sports etc. Travel logs, grammar videos, debates

		https://drive.google.com/file/d/18COCkhq2a2EdOor8R-kTNfCBt09yO0nn/view?usp=sharing https://drive.google.com/file/d/10GWf_QdzLi7wve2WkEzNx44ROTcsT7z3/view?usp=sharing
		Exploring usage of Public Cloud, CI/CD Pipeline creation, Exploring ML Model Creation and Deployment in public cloud
		Data analysis on various datasets using Numpy, Pandas and Matplotlib APIs
2022-23		
1	Design and development of web application using Java and DBMS on different topics like RTO Management System Wildlife management System Bike Rental Service etc	Tourism Management System,Instagram Public Transport,Call Logs,Disease Diagnose,Navigation System,Flight Scheduling,Traffic simulation,Diet Chart plan,DJ mixing songs,Library Management System,E-Commerce,Hospital Priority,Tic-Tac-Toe,Word search with sentiment Analysis,Music Synthesis,Sudoku,Medical store Management,Phone Directory,Friends recommendation based on common interest Implementation of Phonebook Mgmt system using c++,Road Traffic,File Exporer,Syntax Checker,Use of DAG's in MS Excel,Meeting point Finder,Airline Routing,Tourist Management System,Tree Data Structure in C++,Music Player,Kidney Exchange problem
2	Case Study on Stealing to Feed the Hungry, Cybercriminal donates stolen money to charity organisation,The gift of kindness and generosity, Unveilingthe Shadows: A Case Study on Child ,Domestic Labour in India Ethical Considerations in an Orphanage Setting, Promoting Human Dignity in Healthcare in	Main Memory Management And Virtual Memory, Business Process Management In Operating Systems, Grid Computing, Process Scheduling And Ai In Operating Systems, Embedded Operating System, Protection Of Operating System, Dead Lock - Management And Prevention, Virtual Machine Security

	India,Ethical Dilemma in Software Development A case study of school shootings,Combating Bribery and Upholding Human Values,Stampede at Elphinstone Road,Railway Station, Mumbai ,Autonomous Cars based Trolley Problem Violence against Healing Hands,Social Responsibility, Respect and Compassion,Depiction of Religion in Artistic Media,Unfulfilled Wishes: The Discrepancy Between Love and Duty	
3	Arduino based seismic monitoring system, Gesture Vocalizer, Temperature based fan controller, Tachometer using Hall effect sensor, Automatic railway gate open and closing system, Laser Security System, Smart Path Finding Robot, 4WD Obstacle Avoidance Robot Car	Presentation on applications of Discrete Mathematical Structures apart from Computer Science
2021-22		
1		Implementation of C-program on the topics like Recursion, Sorting, Searching, Factorial, Towers of Hanoi

4. Benefits of Experiential Learning with respect to your department:

In this section, the report outlines the numerous benefits of experiential learning for students, educators, and institutions. Overview of experiential learning and its growing significance in the field of AI & ML:

Problem-Solving Skills: AI & ML require strong problem-solving skills. Experiential learning environments present students with authentic challenges and problems to solve, fostering the development of critical thinking, analytical reasoning, and creativity.

Adaptability and Agility: The field of AI & ML is constantly evolving with new algorithms, techniques, and technologies emerging rapidly. Experiential learning promotes adaptability and agility by exposing students to diverse tools, methodologies, and real-world scenarios, preparing them to navigate the dynamic landscape of AI & ML with confidence.

Career Readiness: Employers increasingly value candidates with practical experience and demonstrable skills in AI & ML. Experiential learning equips students with the hands-on experience and portfolio of projects necessary to stand out in the job market and pursue rewarding careers in fields such as data science, machine learning engineering, and AI research.

Active Engagement: Experiential learning encourages students to actively engage with AI & ML concepts through practical projects, simulations, and experiments. This active involvement enhances understanding and retention compared to passive learning methods.

5. Challenges in Implementing Experiential Learning with respect to your department:

Here, the report identifies common challenges and barriers to implementing experiential learning initiatives. It addresses issues such as

Time and Resource constraints: Experiential learning activities often require more time, effort, and resources compared to traditional lecture-based instruction. Faculty have faced constraints in terms of available class time, student workload, making it challenging to incorporate the topics of experiential learning

Assessment and Evaluation: Assessing student learning and performance in experiential learning environments can be more complex than traditional assessment methods. Measuring skills such as problem-solving, critical thinking, and collaboration requires innovative assessment approaches, such as project-based assessments, peer evaluations, and portfolio reviews, which may pose logistical challenges for faculties.

The different strategies are followed in the department to overcome these obstacles

Rubrics and Criteria: A comprehensive rubrics and assessment criteria for each of the experiential learning topics is considered. These rubrics that outline expectations for student performance across various dimensions, including technical proficiency, problem-solving skills, critical thinking, communication, collaboration.

6. Case Studies and Examples:

This section presents real-world case studies and examples of successful experiential learning programs. It highlights innovative approaches and best practices used by institutions to integrate experiential learning into their curriculum and shares insights gained from these experiences. Include the photos of events in case studies if any.

Each semester put two best case studies (i.e. any one EL/PBL)

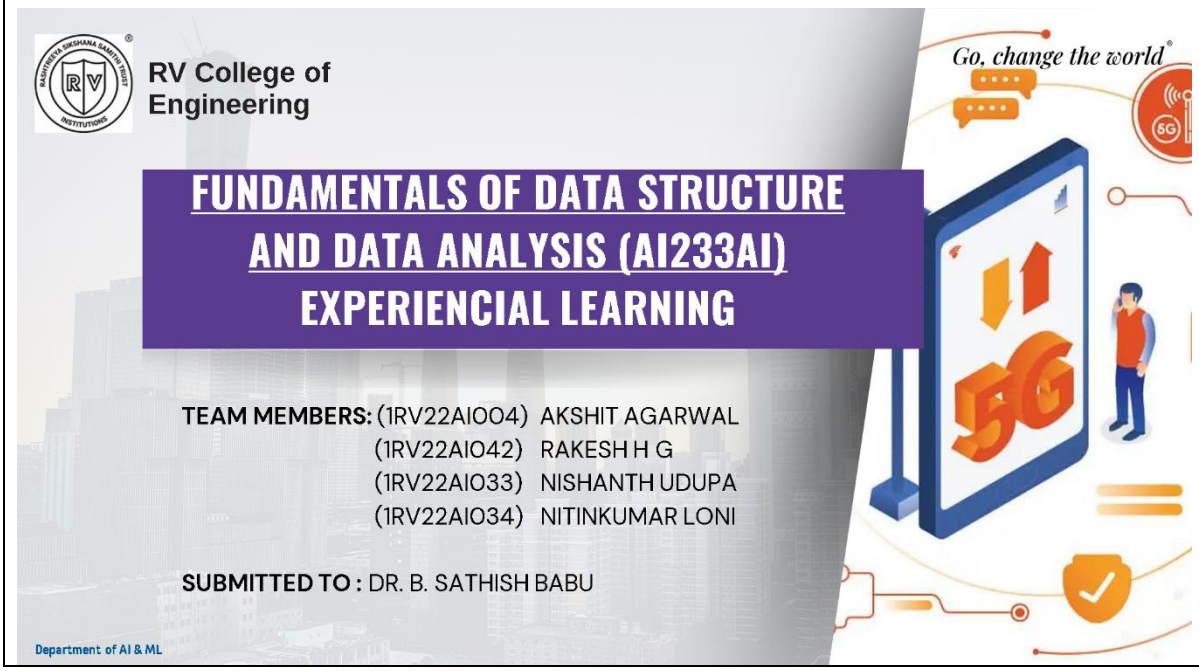
2023-24
Case Study – 1 (Complete Process report with Evaluation rubrics) • Video-based Presentation on a real-world application of Data Structures • The Outcome of participating in Hackathons (Inter-collegiate or https://www.hackerearth.com/challenges/hackathon/) • Producing international conference/journal paper/book chapter • Part of organizing an event • Resource person for a topic • Part of department-level industrial consultancy or research activity • Any other activity with the permission of the subject faculty Rubrics: • **Business Problem and Objectives(05 Marks)** - Excellent (05), Very good (4), Good(3), Fair(0-2) • **Hypothesis(05 Marks)** - Clearly stated (5), Fairly Stated (3-4), Poorly stated (0-2) • **Data Sources (05 Marks)** - Six proper data sources (5), 4 to 5 proper data sources (3-4), < 4 data sources (0-2) • **Data Visualization and Understanding (10 Marks**) - Effective use of tools and detailed visualization(8-10), Good visualization and detailed (5-7), Good Visualization not detailed (3-5), Poor visualization (0-2) • **Data Modeling (10 Marks)** - Clearly stated approach(8-10), Approach stated but with gaps(4-7), Approach not clear(0-3) • **Performance and Conclusions(05 Marks)** - Performance metrics stated and anlysed with proper conclusion(3-5), Not Analysed just concluded (0-2) Fundamentals of Data Structures and Data Analysis - Experiential Learning Components **Component #1 (30 Marks)** ▪ Demonstration of CRISP Data Mining Process for the selected business problem from a domain, e.g., supplier selection in a supply chain management, inventory management in a selected business-like jewelry, etc. (15 Marks) ▪ Using Open source tools like Orange, RapidMiner, WEKA, etc., demonstrate the data mining process (15 Marks) **Component #2 (10 Marks)** Expected Outcome (any of the following):

- Video-based Presentation on a real-world application of Data Structures
- The Outcome of participating in Hackathons (Inter-collegiate or https://www.hackerearth.com/challenges/hackathon/)
- Producing international conference/journal paper/book chapter
- Part of organizing an event
- Resource person for a topic
- Part of department-level industrial consultancy or research activity
- Any other activity with the permission of the subject faculty

Rubrics:

- **Business Problem and Objectives(05 Marks)** - Excellent (05), Very good (4), Good(3), Fair(0-2)
- **Hypothesis(05 Marks)** - Clearly stated (5), Fairly Stated (3-4), Poorly stated (0-2)
- **Data Sources (05 Marks)** - Six proper data sources (5), 4 to 5 proper data sources (3-4), < 4 data sources (0-2)
- **Data Visualization and Understanding (10 Marks)** - Effective use of tools and detailed visualization(8-10), Good visualization and detailed (5-7), Good Visualization not detailed (3-5), Poor visualization (0-2)
- **Data Modeling (10 Marks)** - Clearly stated approach(8-10), Approach stated but with gaps(4-7), Approach not clear(0-3)
- **Performance and Conclusions(05 Marks)** - Performance metrics stated and anlysed with proper conclusion(3-5), Not Analysed just concluded (0-2)

Sample Submission



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CRISP-DM Framework

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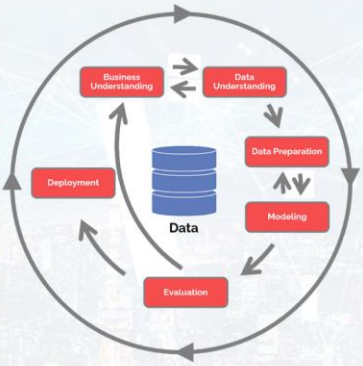
The CRISP-DM (Cross-Industry Standard Process for Data Mining) framework is a widely used methodology for guiding data mining and machine learning projects. It consists of six main phases:



1. **Business Understanding:** Define the project objectives and requirements from a business perspective.
2. **Data Understanding:** Collect initial data and describe it through exploration and initial analysis.
3. **Data Preparation:** Select data, clean it, and construct the final dataset for analysis.
4. **Modeling:** Select suitable modeling techniques based on the project's objectives.
   Build and validate models using the prepared dataset.
   Iterate the modeling process to refine and improve model performance.
5. **Evaluation**: Evaluate the models to ensure they meet the business objectives.
6. **Deployment:** Deploy the model into the business environment.

Throughout these phases, the process is iterative and may require revisiting previous stages based on new insights or changing requirements.

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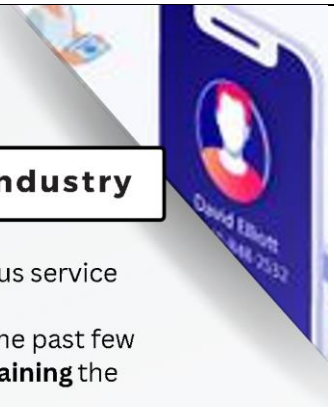
Business Problem:



Customer Churn Prediction in the Telecom Industry

- The telecom industry is **highly competitive**, with numerous service providers fighting for market share.
- Since the Telecom industry has become **saturated** over the past few years in terms of acquiring new customers and hence **retaining** the existing customers becomes very much critical.
- One of the most significant challenges faced by telecom companies is **customer churn.**
  - Churn occurs when subscribers switch from one service provider to another or terminate their subscriptions altogether.
  - High churn rates can significantly impact a company's revenue and profitability.

HYPOTHESIS:

The tendency of a telecom customer to churn is influenced by a combination of demographic characteristics, usage patterns, customer satisfaction metrics, and market dynamics.

Independent Variables:

1. **Demographic Variables:** Age, gender, marital status, geographic location of the customer.
2. **Usage Patterns:** Average monthly call duration, data usage, number of text messages sent/received, frequency of international calls, roaming usage, and usage of value-added services.
3. **Contract and Billing Information:** Contract type (prepaid or postpaid), contract duration, billing plan, monthly charges, additional fees, and payment history.
4. **Customer Satisfaction Metrics:** Customer satisfaction scores obtained from surveys, Net Promoter Score (NPS), customer complaints, call center interactions, and sentiment analysis of customer feedback.
5. **Network Performance:** Signal strength, call drop rates, data speed, network coverage, and latency.
6. **Competitive Factors:** Presence of competing telecom providers in the customer's area, promotional offers from competitors, market saturation, and industry trends.
7. **External Events:** Economic conditions, changes in regulatory policies, technological advancements, and sociopolitical factors.

high which leads to high churn rates. Whereas Yearly contracts with low costs have high density.

Electronic Check mostly or mailed check. The reason might be short subscription cancellation process compared to automatic payment.

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Data Mining/Modeling

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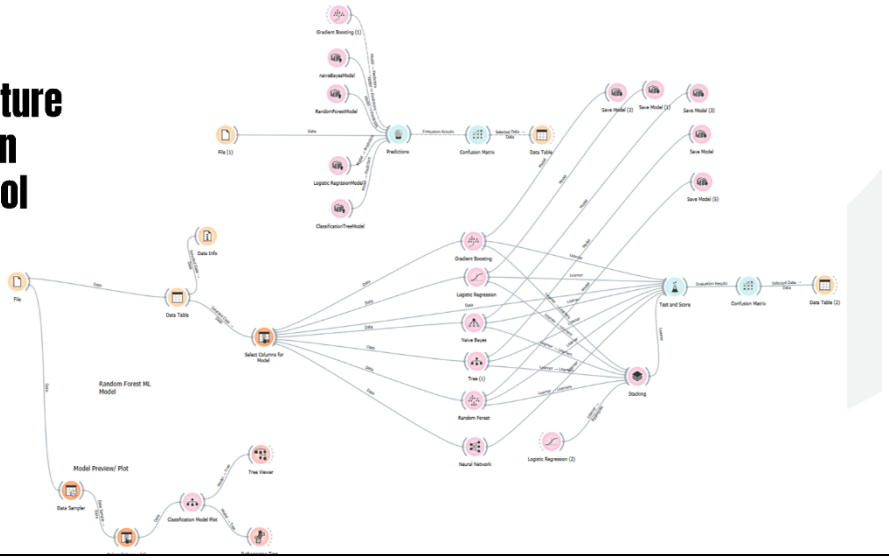
Model Structure created in Orange Tool



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Performance of the Model

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Overall Predictions

Model	AUC	CA	F1	Prec	Recall	MCC	Spec
Random Forest	0.842	0.801	0.793	0.791	0.801	0.459	0.623
Logistic Regression	0.830	0.798	0.787	0.786	0.798	0.442	0.601
Naive Bayes	0.823	0.732	0.747	0.800	0.732	0.456	0.779
Stack	0.845	0.763	0.689	0.789	0.763	0.272	0.354
Tree (1)	0.812	0.791	0.790	0.789	0.791	0.457	0.661
Gradient Boosting	0.847	0.803	0.796	0.794	0.803	0.466	0.628
Neural Network	0.781	0.754	0.752	0.750	0.754	0.358	0.598

Classsifcation Accuracy

Compare models by: Classification accuracy — Negligible diff.: 0.1

	Naive Bayes	Neural Network	Logistic Regression	Tree	Random Forest	Gradient Boosting
Naive Bayes		0.009	0.000	0.000	0.000	0.000
Neural Network	0.991		0.000	0.000	0.000	0.000
Logistic Regression	1.000	1.000		0.457	0.349	0.253
Tree	1.000	1.000	0.543		0.377	0.338
Random Forest	1.000	1.000	0.651	0.623		0.428
Gradient Boosting	1.000	1.000	0.747	0.662	0.572	

Case Study – 1 (Complete Process report with Evaluation rubrics)
RVassist: A chatbot for RVCE with end to end information about college along with an internal navigation system. The project is developed using GPT API from Hugging face.

Case Study – 2 (Complete Process report with Evaluation rubrics)
Exam paper evaluation: An NLP model developed to automate the paper evaluation and grading system.

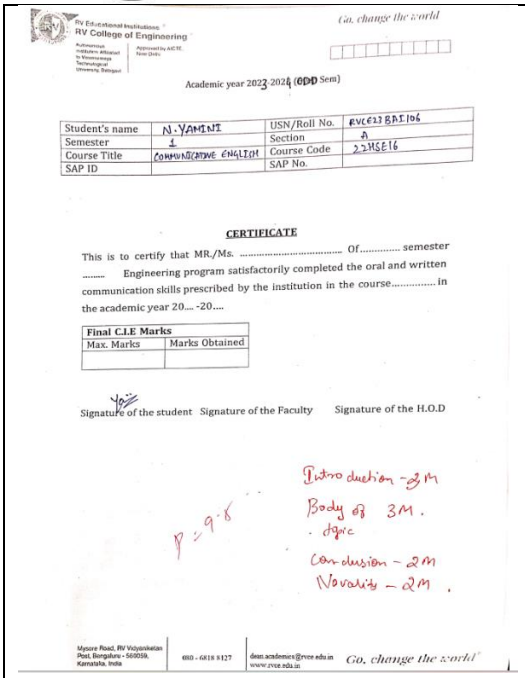
Case study – 1 (Complete Process report with Evaluation rubrics)
Data analysis on heart disease--- Developed using various APIs in python to visualize the correlation between various attributes in the dataset.

Case – 2 (Complete Process report with Evaluation rubrics)
Data analysis on tesla stock data--- Developed using Numpy pandas, and matplotlib to visualize the correlation between various features and their importance in giving a prediction

Case Study – 1 (Complete Process report with Evaluation rubrics)
Bus Reservation system : Developed in C language to insert, delete, append and update the reservation details of the passenger and find the availability of seats.

Case Study – 2 (Complete Process report with Evaluation rubrics)
Calculator: All the mathematical, scientific applications and the mathematical series are included

Case Study – 1(Complete Process report with Evaluation rubrics)



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Academic year 2023-2024 (ODD Sem)

Student's name	N. YAMINI	USN/Roll No.	RVCE23BAI106
Semester	1	Section	A
Course Title	COMMUNICATIVE ENGLISH	Course Code	23HSE16
SAP ID		SAP No.	

CERTIFICATE

This is to certify that MR./Ms. ..... Of..... semester ..... Engineering program satisfactorily completed the oral and written communication skills prescribed by the institution in the course..... in the academic year 20....-20....

Final C.I.E Marks	
Max. Marks	Marks Obtained

Signature of the student Signature of the Faculty Signature of the H.O.D

Introduction - 2M
Body of 3M.
topic
Conclusion - 2M
Novelty - 2M.

p : 9.8

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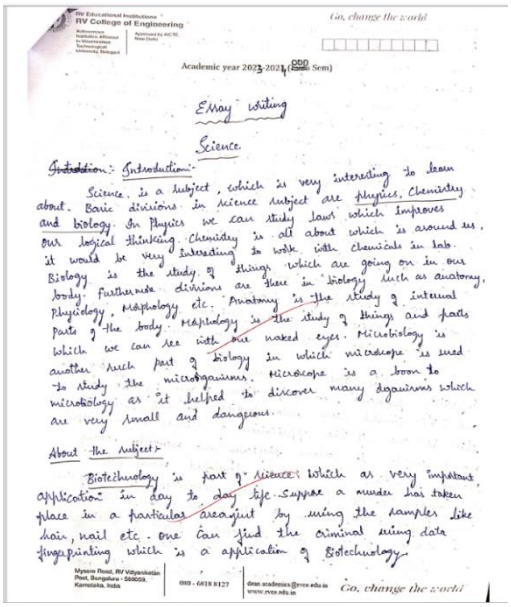

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Academic year 2023-2024 (ODD Sem)

Essay writing

Science

Introduction: Introduction:

Science, is a subject, which is very interesting to learn about. Basic divisions in science subject are physics, Chemistry and biology. In Physics we can study laws which improves our logical thinking. Chemistry is all about which is around us, it would be very interesting to work with chemicals in lab. Biology is the study of things which are going on in our body. Furthermore divisions are there in biology such as anatomy, Physiology, Morphology etc. Anatomy is the study of internal part of the body. Morphology is the study of things and parts which we can see with our naked eyes. Microbiology is another such part of biology in which microscope is used to study the microorganisms. Microscope is a boon to microbiology as it helped to discover many organisms which are very small and dangerous.

About the subject:

Biotechnology is part of science which is very important application in day to day life. Suppose a murder has taken place in a particular area, just by using the samples like hair, nail etc. one can find the criminal using data fingerprinting which is a application of Biotechnology.

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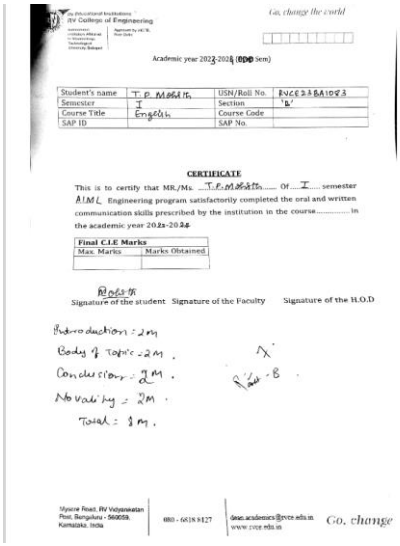
Introduction to the topic – 3 Marks
Body of the topic – 3 Marks
Conclusion – 2 Marks
Novelty – 2 Marks



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Academic year 2023-2024 (ODD Sem)

Student's name	T. P. MAHITH	USN/Roll No.	RVCE23BAI083
Semester	I	Section	B
Course Title	English	Course Code	
SAP ID		SAP No.	

CERTIFICATE

This is to certify that MR./Ms. T.P.MAHITH..... Of.... I.... semester AIML Engineering program satisfactorily completed the oral and written communication skills prescribed by the institution in the course..... in the academic year 2023-2024.

Final C.I.E Marks	
Max. Marks	Marks Obtained

Signature of the student Signature of the Faculty Signature of the H.O.D

Introduction : 2m
Body of Topic - 2M.
Conclusion : 2M.
Novelty : 2M.
Total : 8m.

8

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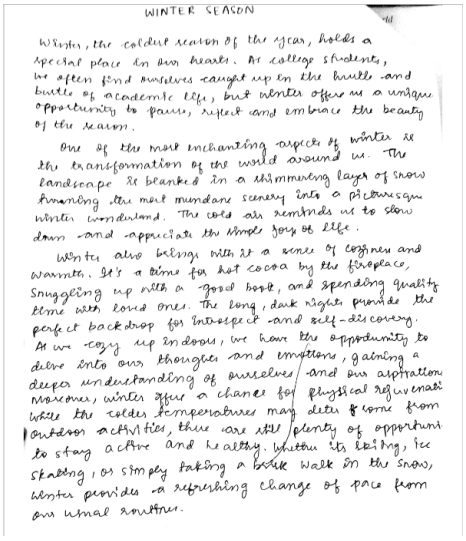
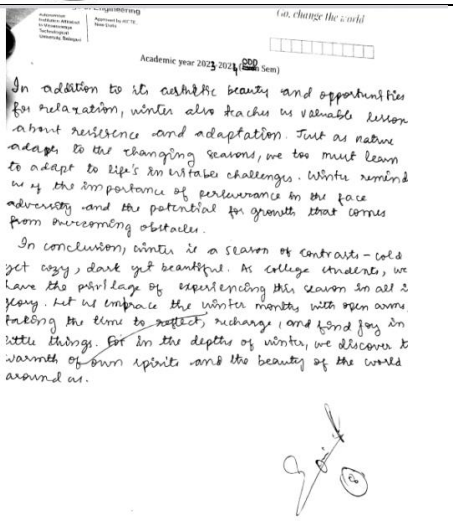


WINTER SEASON

Winter, the coldest season of the year, holds a special place in our hearts. As college students, we often find ourselves caught up in the hustle and bustle of academic life, but winter offers us a unique opportunity to pause, reflect and embrace the beauty of the season.

One of the most enchanting aspects of winter is the transformation of the world around us. The landscape is blanketed in a shimmering layer of snow, turning the most mundane scenery into a picturesque winter wonderland. The cold air reminds us to slow down and appreciate the simple joys of life.

Winter also brings with it a sense of coziness and warmth. It's a time for hot cocoa by the fireplace, snuggling up with a good book, and spending quality time with loved ones. The long, dark nights provide the perfect backdrop for introspect and self-discovery. As we cozy up indoors, we have the opportunity to delve into our thoughts and emotions, gaining a deeper understanding of ourselves and our aspirations. Moreover, winter offer a chance for physical rejuvenation. While the colder temperatures may deter some from outdoor activities, there are still plenty of opportunities to stay active and healthy. Whether it's skiing, ice skating, or simply taking a brisk walk in the snow, winter provides a refreshing change of pace from our usual routines.



In addition to its aesthetic beauty and opportunities for relaxation, winter also teaches us valuable lesson about resilience and adaptation. Just as nature adapts to the changing seasons, we too must learn to adapt to life's inevitable challenges. Winter reminds us of the importance of perseverance in the face adversity and the potential for growth that comes from overcoming obstacles.

In conclusion, winter is a season of contrasts - cold yet cozy, dark yet beautiful. As college students, we have the privilege of experiencing this season in all its glory. Let us embrace the winter months with open arms, taking the time to reflect, recharge, and find joy in little things. In the depths of winter, we discover the warmth of our spirits and the beauty of the world around us.

Case Study – 1(Complete Process report with Evaluation rubrics) Case Study on Swisscows Engine – In this case study, all the features of the search engine, its architecture, ranking algorithm and SEO of the engine was discussed
Case Study – 1(Complete Process report with Evaluation rubrics) Case Study on Ecosia Search Engine - In this case study, all the features of the search engine, its architecture, ranking algorithm and SEO of the engine was discussed
Case Study – 1 (Complete Process report with Evaluation rubrics) **EMR Assisted Personalized Meal Recommendation** Created model to assist the individual to take EMR assisted Personalized Meal Recommendation, model built in AWS cloud platform and deployed in the same cloud
Case study – 1 (Complete Process report with Evaluation rubrics) Data analysis on heart disease--- Developed using various APIs in python to visualize the correlation between various attributes in the dataset
Case – 2 (Complete Process report with Evaluation rubrics) Visualizing the impact of Covid 19 to prevent future epidemic --- Developed using Numpy pandas, and matplotlib to visualize the correlation between various features and their importance in giving a prediction.
Case Study – 1 Renewable Energy Statistics
Case Study – 2 Crop analysis in North and Southern parts of India
2022-23
Case Study – 1 (Complete Process report with Evaluation rubrics) Universal Human Values - Experiential Learning Components **EL Activity 1** **Purpose:** Develop and present a case study about human values and professional ethics, choosing a real situation close to our hearts. **Batch size:** Two **Example situation:** 1. Biker severed by truck cries in pain… and then says he wishes to donate his organs

2. Son left old parents in front of Old age home: **https://www.youtube.com/watch?v=rNBwSKtV6UU**

Submission (10 Marks):

1. Case study write up
2. Presentation recorded video

Reference:

https://www.drishtiias.com/ethics/case-studies/case-study-16-call-of-duty-versus-human-value
https://www.ias4sure.com/wikiias/gs4/human-values-upsc-ethics-case-study/
https://writing.colostate.edu/guides/guide.cfm?guideid=60

Rubrics

Depth of Case Study and Relevance (5) : 4-4.5 (Covered the case in enough details, and questions were framed properly and solutions are convincing) 5: Above points with sufficient photographical evidences , 3-4: Completed but not sufficient 2-3: Not sufficient coverage	**Presentation (5)**

EL Activity 2

Purpose: Group Discussion on a Selected Topic linking to the syllabus - Factual/opinion-based/case studies based

Batch size: Five

Example Topics:

1. Impact of Social Media on Human Values
2. The Effect of Globalization on our culture
3. Case studies assigned by the faculty (this can be picked from EL Activity 1)
4. Technology addiction on today's youth and its impact on relationships
5. How does children's television help to shape responsible personalities?

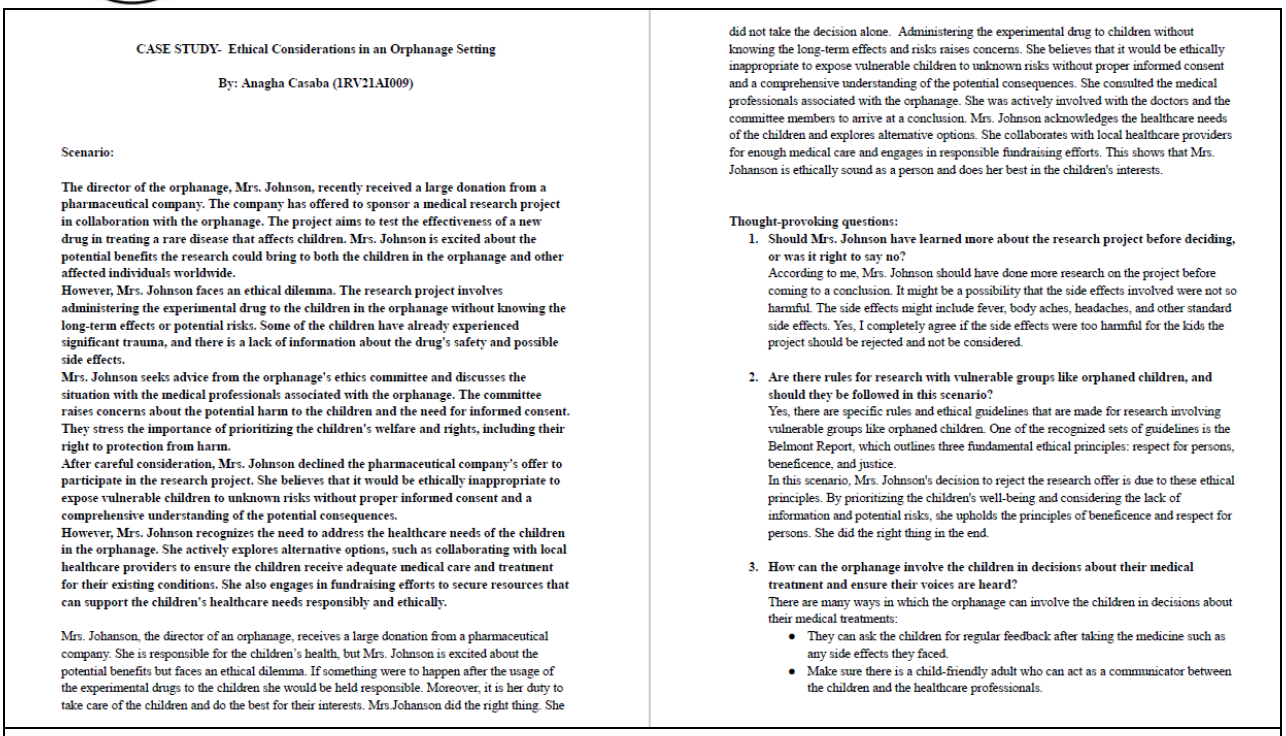
Submission (10 Marks):

1. Online/Offline mode
2. Submission of recording (if online mode)
3. Submission of a writeup on proceedings of the GD by each team

Rubrics:

Quality Of Outcome (4-5: Excellent and Creative and informative, 2-3: Average 1: Poor)	**Presentation (4-5: Covered maximum points in UHV theme, 2-3: Average 1: Fair)**

Sample Submission



CASE STUDY- Ethical Considerations in an Orphanage Setting

By: Anagha Casaba (1RV21AI009)

Scenario:

The director of the orphanage, Mrs. Johnson, recently received a large donation from a pharmaceutical company. The company has offered to sponsor a medical research project in collaboration with the orphanage. The project aims to test the effectiveness of a new drug in treating a rare disease that affects children. Mrs. Johnson is excited about the potential benefits the research could bring to both the children in the orphanage and other affected individuals worldwide.
However, Mrs. Johnson faces an ethical dilemma. The research project involves administering the experimental drug to the children in the orphanage without knowing the long-term effects or potential risks. Some of the children have already experienced significant trauma, and there is a lack of information about the drug's safety and possible side effects.
Mrs. Johnson seeks advice from the orphanage's ethics committee and discusses the situation with the medical professionals associated with the orphanage. The committee raises concerns about the potential harm to the children and the need for informed consent. They stress the importance of prioritizing the children's welfare and rights, including their right to protection from harm.
After careful consideration, Mrs. Johnson declined the pharmaceutical company's offer to participate in the research project. She believes that it would be ethically inappropriate to expose vulnerable children to unknown risks without proper informed consent and a comprehensive understanding of the potential consequences.
However, Mrs. Johnson recognizes the need to address the healthcare needs of the children in the orphanage. She actively explores alternative options, such as collaborating with local healthcare providers to ensure the children receive adequate medical care and treatment for their existing conditions. She also engages in fundraising efforts to secure resources that can support the children's healthcare needs responsibly and ethically.

Mrs. Johanson, the director of an orphanage, receives a large donation from a pharmaceutical company. She is responsible for the children's health, but Mrs. Johnson is excited about the potential benefits but faces an ethical dilemma. If something were to happen after the usage of the experimental drugs to the children she would be held responsible. Moreover, it is her duty to take care of the children and do the best for their interests. Mrs.Johanson did the right thing. She did not take the decision alone. Administering the experimental drug to children without knowing the long-term effects and risks raises concerns. She believes that it would be ethically inappropriate to expose vulnerable children to unknown risks without proper informed consent and a comprehensive understanding of the potential consequences. She consulted the medical professionals associated with the orphanage. She was actively involved with the doctors and the committee members to arrive at a conclusion. Mrs. Johnson acknowledges the healthcare needs of the children and explores alternative options. She collaborates with local healthcare providers for enough medical care and engages in responsible fundraising efforts. This shows that Mrs. Johanson is ethically sound as a person and does her best in the children's interests.

Thought-provoking questions:

1. Should Mrs. Johnson have learned more about the research project before deciding, or was it right to say no?
   According to me, Mrs. Johnson should have done more research on the project before coming to a conclusion. It might be a possibility that the side effects involved were not so harmful. The side effects might include fever, body aches, headaches, and other standard side effects. Yes, I completely agree if the side effects were too harmful for the kids the project should be rejected and not be considered.

2. Are there rules for research with vulnerable groups like orphaned children, and should they be followed in this scenario?
   Yes, there are specific rules and ethical guidelines that are made for research involving vulnerable groups like orphaned children. One of the recognized sets of guidelines is the Belmont Report, which outlines three fundamental ethical principles: respect for persons, beneficence, and justice.
   In this scenario, Mrs. Johnson's decision to reject the research offer is due to these ethical principles. By prioritizing the children's well-being and considering the lack of information and potential risks, she upholds the principles of beneficence and respect for persons. She did the right thing in the end.

3. How can the orphanage involve the children in decisions about their medical treatment and ensure their voices are heard?
   There are many ways in which the orphanage can involve the children in decisions about their medical treatments:
   - They can ask the children for regular feedback after taking the medicine such as any side effects they faced.
   - Make sure there is a child-friendly adult who can act as a communicator between the children and the healthcare professionals.

Case Study – 2 (Complete Process report with Evaluation rubrics)

Data Structures and Data Analysis - Experiential Learning Components

Component #1 (30 Marks)

In combination with CPS Subject - For the domain chosen in the CPS EL.

- Data Collection and Process (Techniques and Technologies Used) - 05 Marks
- Dataset Description and Data Preparation / Data Pre-processing - 05 Marks
- Visualization (Any Visualization Tools) - 15 Marks
- Data Interpretation Insights Presentation - 05 Marks

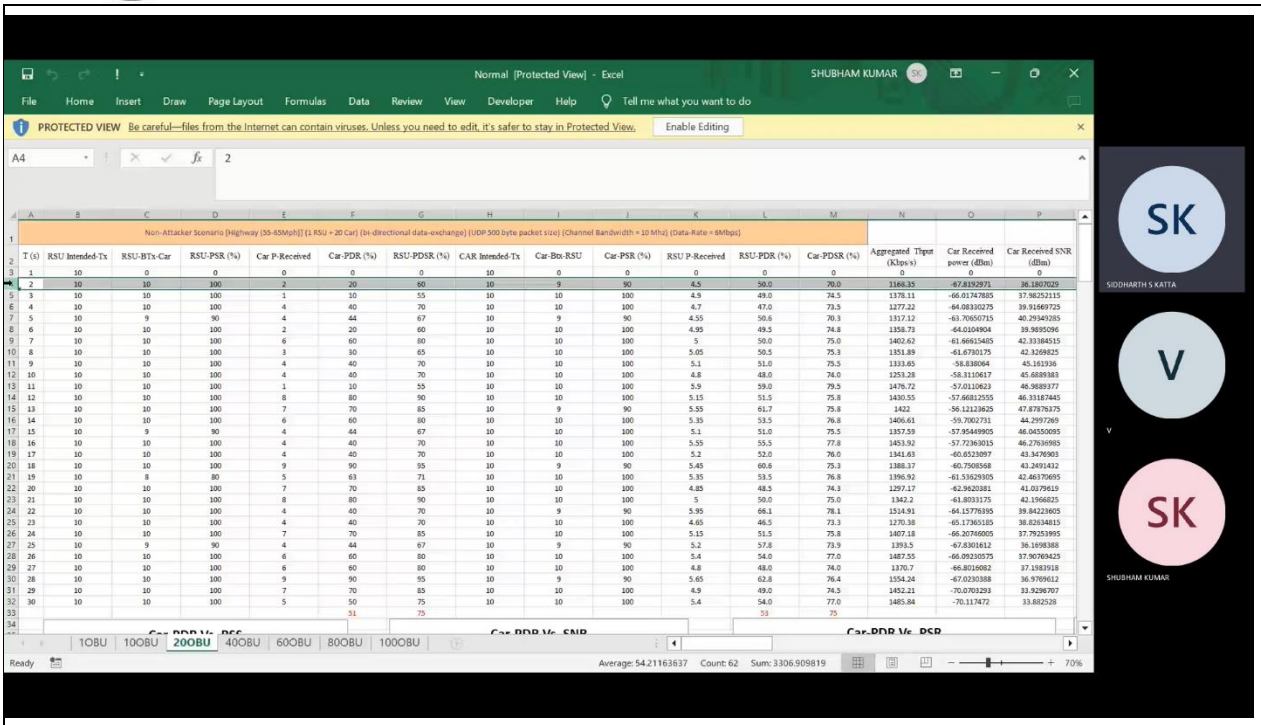
Expected Outcome: Poster

Component #2 (10 Marks)

Expected Outcome (any of the following):

- Video-based Presentation on a real-world application of Data Structures
- Outcome of participating in Hackathons (Inter-collegiate or https://www.hackerearth.com/challenges/hackathon/)
- Producing international conference/journal paper/book chapter
- Part of organizing an event
- Resource person for a topic
- Part of department level industrial consultancy or research activity
- Any other activity with the permission of the subject faculty

Sample Submission (Video-based Presentation screenshots):


Normal [Protected View] - Excel
SHUBHAM KUMAR
PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.
Enable Editing
Non-Attacker Scenario (Highway (35-65Mph)) (1 RSU + 20 Car) (bi-directional data-exchange) (UDP 500 byte packet size) (Channel Bandwidth = 10 Mhz) (Data-Rate = 6Mbps)
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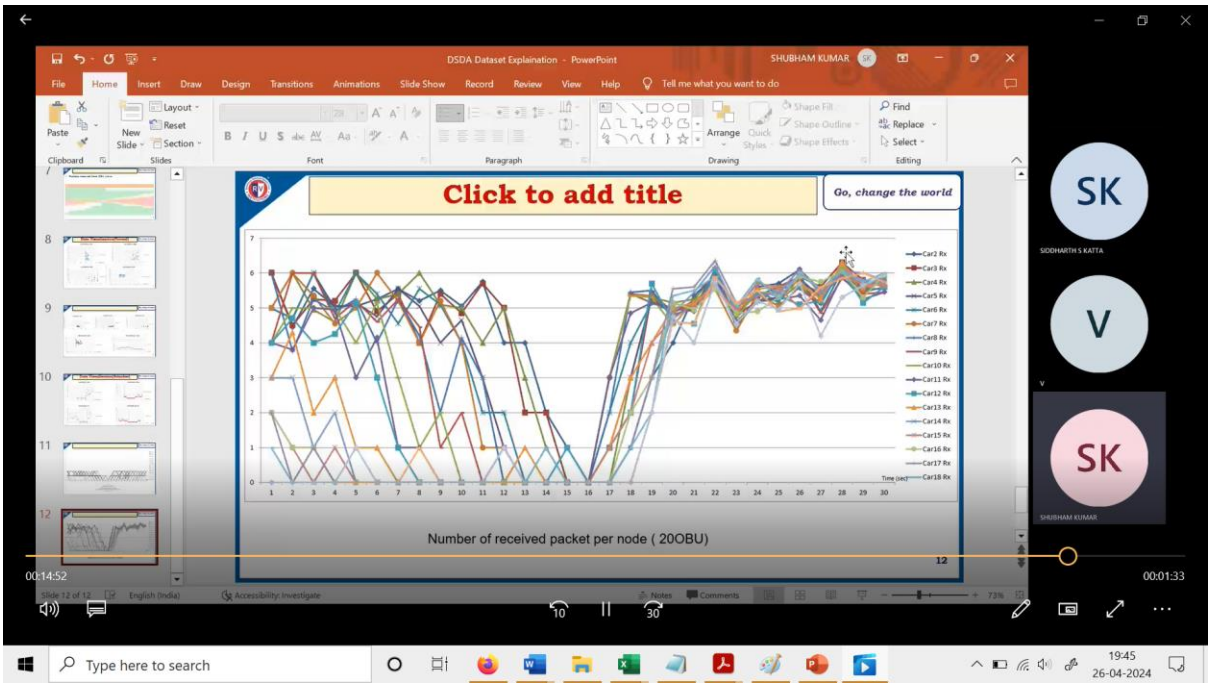
SIDDHARTH S KATTA
V
SK
SHUBHAM KUMAR


DSDA Dataset Explaination - PowerPoint
SHUBHAM KUMAR
Click to add title
Go, change the world
Number of received packet per node (20OBU)
00:14:52
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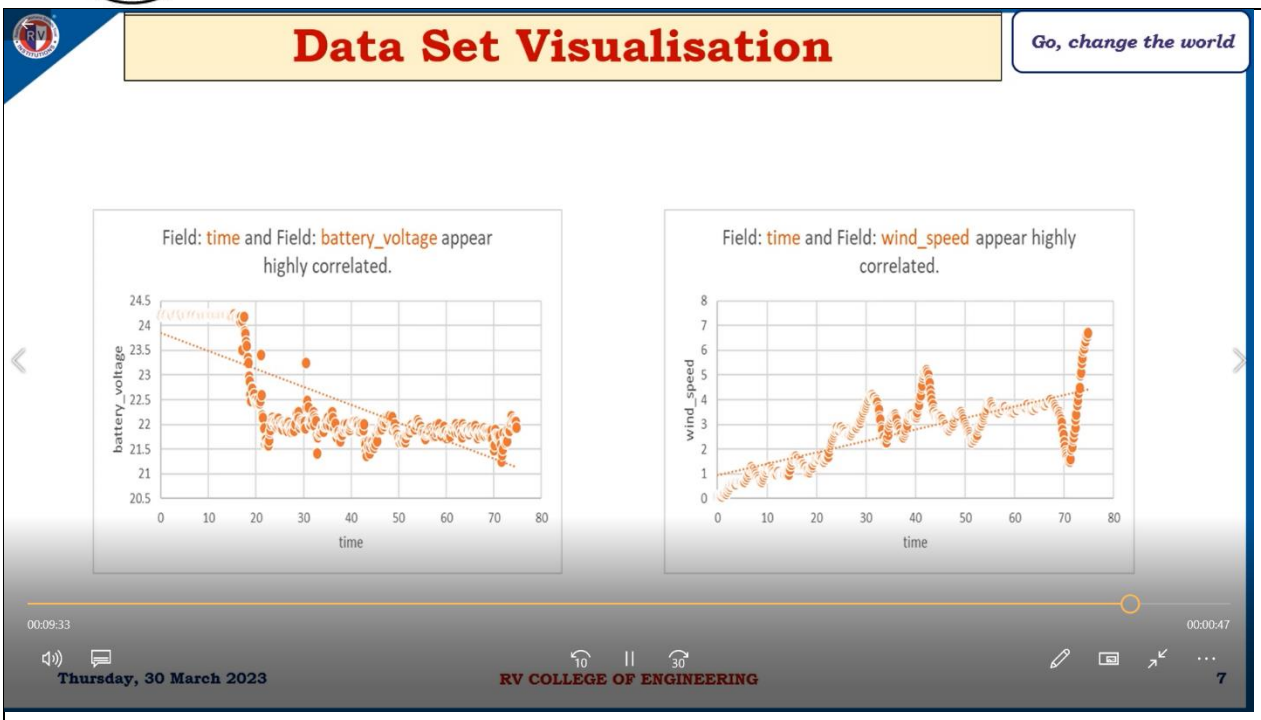


Case Study – 1 (Complete Process report with Evaluation rubrics) Solving the Schrodinger Wave Equation for a particle in Infinite Potential Well
Case Study – 2 (Complete Process report with Evaluation rubrics) Temperature based fan controller
Case Study – 1 (Complete Process report with Evaluation rubrics) Court Case Management system – It was PBL where students design all the use cases of court case management using Java Script as front end and SQL as back end. All the CRUD operations were carried out
Case Study – 2 (Complete Process report with Evaluation rubrics) Social Impact Tracking - It was PBL where students design all the use cases of court case management using Java Script as front end and SQL as back end. All the CRUD operations were carried out
Case Study – 1 (Complete Process report with Evaluation rubrics) Implementation Of Cps Program In IoT OS
Case Study – 2 (Complete Process report with Evaluation rubrics) Servo Motor Control Using Iot Os
2021-22
Case Study – 1 (Complete Process report with Evaluation rubrics) Developed in C language to insert a new element in the sorted array
Case Study – 2 (Complete Process report with Evaluation rubrics) Developed in C language to print the characters in reverse order

7. Recommendations for Integrating Experiential Learning:

Based on the findings of the report, this section provides practical recommendations for educators and institutions looking to integrate experiential learning into their teaching practices. It offers guidance on curriculum design, faculty training, and assessment methods tailored to experiential learning.

8. Outcome & Conclusion:

The report concludes by summarizing key findings and insights from the exploration of experiential learning practices. It underscores the importance of experiential learning in fostering student success and calls for continued efforts to promote its widespread adoption in engineering education.

Upload all the EL/PBL reports of all the batches years wise in the following link:

https://drive.google.com/drive/folders/12Bl-3GMcanxaplN87IX-8t8f7107Au76

Course Wise Subtopic information need to be filled:

List of Students

Name of the Course : Fundamentals of Data Structures and Data Analysis

Year : 2023-24

Sl.No.	USN	Name	Title
1	1RV22AI011	Ashwin Dharmavaram	FCPS - Industrial CPS
	1RV22AI064	Kriti Kannan	
	1RV22AI037	Parth Shukla	
	1RV22AI022	Keerti Patil	
2	1RV22AI007	Ananth M Athreya	Smart Hospitals and wards
	1RV22AI014	Chinmaya J	
	1RV22AI049	Sandeep S Pawar	
	1RV22AI059	Sujay Arun Kudtarkar	
3	1RV22AI038	Pavithra C	Intelligent Transportation
	1RV22AI015	D V Sarayu Reddy	
	1RV22AI005	Akshita Chavan	
	1RV22AI031	Nischitha P	
4	1RV22AI044	Ravikiran Aithal	Fraud detection in Financial Institution
	1RV23AI052	Shiva Kumar	
	1RV22A1028	Mrinal Cariappa G P	
	1RV22AI023	Kompella Tushar	
5	1RV22AI013	Chillale Naveen	CPS in Supply Chain Management
	1RV22AI016	Dhanamkula Sai Siva Bhaswanth	
	1RV22AI024	Kota Vishnu Datta	
	1RV22AI040	Rachith S	
6	1RV22AI002	Abhishek Baradwaj	Supply chain management - Dairy
	1RV22AI026	Lakshmeesha KR	

	1RV22AI067	Niranjan Sindur	
	1RV22AI053	Shivukumar MH	
7	1RV22AI025	Kushagra Aatre	Smart City
	1RV22AI054	Shreya M	
	1RV22AI009	Aryan Sinha	
	1RV22AI066	Anvitha A Rao	
8	1RV22AI004	Akshit Agarwal	Predictive maintenance of Industrial Equipment
	1RV22AI042	Rakesh H G	
	1RV22AI033	Nishanth Udupa	
	1RV22AI034	Nitinkumar Loni	
9	1RV22AI036	P Shreyas	CPS In Agriculture
	1RV22AI001	Abhinav	
	1RV22AI062	Varun Banda	
	1RV23AI400	Gagan Gowda Vs	
10	1RV22AI039	Preetham N	AirBnB
	1RV22AI029	Nandeesh C M	
	1RV23AI402	K Preethi	
	1RV22AI032	Nishanth H R	
11	1RV22AI055	Shreyas Jain	Cyber Security
	1RV22AI012	Ayush Chouhan	
	1RV22AI050	Saumya Srivastava	
	1RV23AI404	Roopa Iranna Bagalkoti	
12	1RV22AI018	Harsh Lilha	CPS in F1 Racing
	1RV22AI051	Sharankrishna	
	1RV22AI043	Rakesh Shetty	
	1RV23AI405	Sabaa	
13	1RV22AI071	Pranshu Bhatt	CPS in Smart Homes
	1RV22AI065	Boru Harshavardhan Reddy	
	1RV22AI072	Sanjana Kumari Singh	
	1RV22AI070	Km Amogha	
14	1RV22AI041	Rajyalakshmi Prasanna	Smart Cities
	1RV22AI046	Roshan John	
	1RV22AI003	Aditya Tekriwal	
	1RV22AI017	Gnyan Mallaiah	
15	1RV22AI010	Ashrith Chitriki	CPS in Retail Industry
	1RV22AI021	K Shashank	
	1RV22AI047	S Kushaal	
	1RV22AI061	Tanishq Manju Reddy	
16	1RV22AI019	Nikhil	CPS in traffic Management System
	1RV22AI020	Jaswanth Reddy M	
	1RV22AI060	Tanish S	
	1RV22AI045	Rishikesh	
17	1RV22AI058	Srivanth Srinivasan	CPS in Healthcare
	1RV22AI048	Safiya Farheen	
	1RV22AI008	Ankush Arunkumar	

	1RV22AI027	Mishael Abhishek Zakkam	
18	1RV22AI068	Labdhi Ranka	Weather Station
	1RV22AI069	Dharshini M A	
	1RV23AI403	Omkar M	
	1RV23AI401	Gayithri B R	

List of Students

Name of the Course : Natural Language Processing and Transformers

Year : 2023-24

Sl. No.	USN	Name	Topic
1	1RV21AI020	Ganeshprasad Revadi	Exam paper evaluation
2	1RV21AI031	Naveen S Chegaraddi	
3	1RV21AI047	Shivaprasad Hiremath	
4	1RV21AI035	Om Mangalgi	Medicinal plant classification
5	1RV21AI040	Rahul Anilal	
6	1RV21AI054	Subhash Gupta	
7	1RV21AI045	Saakshi Bagali	real time voice captioning with emotion recognition
8	1RV21AI030	Namratha Bhat	
9	1RV21AI026	Madhumita K H	
10	1RV21AI052	Sloke	Health care prediction system
11	1RV21AI056	swanrna	
12	1RV21AI009	Anagha	
13	1RV21AI012	Ayush Goyal	
14	1RV21AI403	Phalguna P Shavanak	Invoice automation and fraud detection
16	1RV21AI400	Ajith Subrahmanya M	
16	1RV21AI401	M Madhava Reddy	
18	1RV21AI405	Shashidhara G K	
19	1RV21AI038	Prajwal M Pawar	RVassist
20	1RV21AI001	Aayaan Hasnain	
21	1RV21AI007	Akshay Alva	
22	1RV21AI061	Yazna Kalp	chatbot using philosophical principles
23	1RV21AI042	Rohan B Mahendra	
24	1RV21AI051	Siddharth S Katta	
25	1RV21AI062	Indraneel Reddy	
26	1RV21AI057	Swastik Agarwal	NutriInsight Analyzāer
27	1RV21AI049	Shrishti K	
28	1RV21AI032	Keerthan Reddy	Mental Healthcare chatbot
29	1RV21AI027	Meenakshi Shinde	
30	1RV21AI019	Dheeraj Anna	automated resume shortlisting system
31	1RV21AI002	Abhinav Anand	
32	1RV21AI021	Granth Mirchandani	
33	1RV21AI039	P sharat chandra	Image captioning

34	1RV21AI014	B sai rohith	
35	1RV21AI037	Partha Sai Paladugu	
36	1RV21AI053	Sreekantha Sreekar	
37	1RV21AI041	Revanasiddappa	voice bot for agri product price prediction
38	1RV21AI043	Rohan Menon	
39	1RV21AI055	Sunil Kumar S	
40	1RV21AI008	Aman Tripathi	Exam preparation assistant
41	1RV21AI050	Shubham Kumar	
42	1RV21AI036	G Pardhiv Varma	
43	1RV21AI060	Vaishnavi A.	
44	1RV21AI015	Ajey Prasad	Personalized career path recommendation
45	1RV21AI025	Maanas M Dev	
46	1RV21AI033	Nishanth Shyam Shankar	
47	1RV21AI044	Rohan Sridar	
48	1RV21AI22	Harshith	MLOps
49	1RV21AI003	Abhishek	
50	1RV21AI005	Ajay Brightson	
51	1RV21AI006	Akhil reddy	
52	1RV21AI048	Shreyas R	LEXI
53	1RV21AI034	Niveditha V	
54	1RV21AI018	Dhanush S	
55	1RV21AI058	Nanda Kumar	
56	1RV21AI059	Tripti Kanodia	Movie recommendation system
57	1RV21AI028	Mohit Lunia	
58	1RV21AI011	Ashika V	
59	1RV21AI004	Ahamad Ali Athani	Question generation using ML and NLP
60	1RV21AI017	Dev	
61	1RV21AI046	Samarth kumbar	
62	1RV21AI23	Kumar Aryan	
63	1RV21AI13	B M Aryaveer Gowda	Healthcare assistant chatbot
64	1RV21AI16	David Yadav	
65	1RV21AI10	Ananth Vishnu	
66	1RV21AI404	Pranathi V	
67	1RV21AI029	N akash	chatbot
68	1RV21AI402	Mohammed faiyaz	

List of Students

Name of the Course : Introduction to python programming

Year : 2023-24

Sl. No.	USN	Name	Topic
1	RVCE23BCD019	Oshi Khabya	Data analysis on zomato dataset
2	RVCE23BCD049	Sharanya Rao Y	
3	RVCE23BBT052	Vihasini J	Data analysis on heart disease
4	RVCE23BBT028	Shaarngini Galagali	
5	RVCE23BBT029	vijetha	
6	RVCE23BCD016	Sinchana RV	Data analysis on Covid19
7	RVCE23BCD016	Nikita	
8	RVCE23BBT048	Syeda Nooreen Fathima	Data analysis on cereals dataset
9	RVCE23BBT055	Varsha G	
10	RVCE23BBT033	Shravani B	
11	RVCE23BCD047	Sanvi H S	Data analysis on movie dataset
12	RVCE23BCD031	Shreya Ravi	
13	RVCE23BCS135	Adhya S Niranjan	
14	RVCE23BCD021	Manan Joshi	Data analysis on IMDB dataset
15	RVCE23BCD023	Prabal Kumar Sukhla	
16	RVCE23BCD027	Shreyash Parashar	
17	RVCE23BCD010	Anuj Devpura	Data analysis on titanic dataset
18	RVCE23BCD041	Muhammad Umar Yaksambi	
19	RVCE23BCD012	Adhitya shainesh	
20	RVCE23BCD009	Gayathri SunilNambiar	Data analysis on cardiovascular health
21	RVCE23BCD003	Mrida Pradhan	
22	RVCE23BCD022	Khushi Gaonkar	Data analysis on diabetes data
23	RVCE23BCD006	Anika Krishna	
24	RVCE23BCS151	Aditi R	
25	RVCE23BCS224	Abhyuday Sharma	Data analysis on cricket dataset
26	RVCE23BCS247	Aditya Kumar	
27	RVCE23BCD024	Aditya Rukmangad	
28	RVCE23BCD002	Gm Vaishnavi	Data analysis on life expectency and literacy rate
29	RVCE23BCD044	GL Shravani	
30	RVCE23BCD054	Ishani shetty	
31	RVCE23BCD018	Likith K G	
32	RVCE23BCD058	Vishal S	
33	RVCE23BCD032	Shailee Tejas Shah	

34	RVCE23BCD059	Spoorthy S	Data analysis on road accidents data
35	RVCE23BBT025	Sanjana Appa Kadpodkar	
36	RVCE23BBT005	Tanya Prashanth	Data analysis on cancer data
37	RVCE23BBT039	Shriya	
38	RVCE23BBT007	Dharshini	
39	RVCE23BBT005	Tanya	
40	RVCE23BCD053	Nitin Bhaskar	Data analysis on game dataset
41	RVCE23BCD052	Partha Suresh	
42	RVCE23BBT041	Rachana M	Data analysis on heart disease
43	RVCE23BBT051	Salvika Sahu	
44	RVCE23BBT024	Prutha V Murthy	
45	RVCE23BCS057	Abhisikta Maitra	Data analysis on Netflix shows data
46	RVCE23BCD004	Apoorv kumar verma	
47	RVCE23BCS042	Aadira shivakumar	
48	RVCE23BCD039	AN Keerthi Saagar	Analysis on NIRF ranking of engineering college
49	RVCE23BCD028	M Niteesh sai Kumar	
50	RVCE23BCD011	Rahul Patnaik	Data analysis of earthquake data
51	RVCE23BCD026	Jai Sinha	
52	RVCE23BCS262	Abhishek Varma	Data analysis of cricket data
53	RVCE23BCS008	Abhinav Rayachoti	
54	RVCE23BCD036	Anant Ahlawat	
55	RVCE23BBT031	Vinayakaa D J	Data analysis of common wealth game
56	RVCE23BBT042	Rahul Gowda S	
57	RVCE23BBT031	R Srivardhan	
58	RVCE23BCD063	Yogesh R Sindagi	Data analysis of tesla stock data
59	RVCE23BCD055	Aditya S	
60	RVCE23BCD033	Shashank Reddy	
61	RVCE23BCD017	Syeda Fathima Zahara	Data analysis on world happiness report

Name of the Course: Introduction to Python Programming

Year 2023-24

USN	Name	Topic
RVCE23BAI102	Kushal S Gowda	World Happiness and Global Education
RVCE23BAI104	Ashish R Biradar	
RVCE23BAI068	Aaditey Chalva	
RVCE23BAI059	Navyasri Pulipati	
RVCE23BAI082	Samruddhi D	
RVCE23BAI020	Amudhan S	Diabetes Awareness using common health statistics
RVCE23BAI051	Aditya Ranjan	A Comprehensive Analysis of Netflix Ratings Dataset
RVCE23BAI054	Garv Agarwalla	
RVCE23BAI119	Machani Bhanu Teja	
RVCE23BAI052	Anjali Suresh Kalarikkal	Indian Startup Ecosystem
RVCE23BAIO72	Mowin S	Cricket Statistics
RVCE23BAIO86	Mohit M	
RVCE23BAI034	Bheemaraj	
RVCE23BAI055	Dhaksha Muthukumaran	Renewable Energy Statistics
RVCEBAI025	Nishaan U Shetty	
RVCE23BAI006	Preetham R	
RVCE23BAI047	Rushil Shodavaram	
RVCE23BAI103	Ramita K A	
RVCE23BAI084	Shalini P	IPL Statistics
RVCE23BAI060	Kavya Jain	
RVCE23BAI048	Arindam Gupta	
RVCE23BAI042	Abhishek Biradar	
RVCE23BAI108	Adithya Acharya U	State-wise crop rotation in India
RVCE23BAI018	Alroy Deon Saldanha	
RVCE23BAI109	Sankalp Khamesra	
RVCE23BAI061	Karnati Lakshmi Sree	Genetic disorders based on Genomes and Genetics
RVCE23BAI089	Keerthi V C	
RVCE23BAI019	Kashish Gupta	
RVCE23BAI017	Nitya Sharma	
RVCE23BAI016	Aanish Khan	Car sales in India (2019-2021)
RVCE23BAI092	Raghavi Ubaler	
RVCE23BAI033	Anupama	
RVCE23BAI074	Mpsahasra	
RVCE23BAI113	Abhilash Maiya Y	Diwali sales Analysis
RVCE23BAI105	Mohith V	
RVCE23BAI046	Priyansh Poddar	
RVCE23BAI078	Daksh Chauhan	
RVCE23BAI021	Ishita Goyal	
RVCE23BAI122	Medha Sanketh	

RVCE23BAI064	Aniket R T	Visualizing the impact of Covid 19 to prevent future epidemic
RCEE23BAI115	Niranjan S Kaithota	
RVCE23BAI044	Monil Palak Mehta	Credit Card Spending in India
RVCE23BAI065	Rayala Yuvaraj Vaishnav	
RVCE23BAI053	Sasank Sekhar Panda	
RVCE23BAI0120	Preetam Baheti	
RVCE23BAI095	Ravi Kishan	Strategic disease analysis data for a healthy society
RVCE23BAI023	Apoorva Krishna P	
RVCE23BAI090	Ballupet Prakash Monal	
RVCE23BAI003	Manoj	
RVCE23BAI117	Dhanush R Mollemane	Crop analysis in North and Southern parts of India
RVCE23BAI069	Nandini R Aravindakshan	
RVCE23BAI005	Neelam J	
RVCE23BAI027	Nishta N Shetty	

List of Students

Name of the Course: Cloud Computing Technology and Architectures

Year : 2023-24

SL	USN	Name of the Student	Title of the EL
1	1RV21AI041	Revanasiddappa	Implementation of RAID 0 and RAID 1 Model in AWS
2	1RV21AI043	Rohan Menon	
3	1RV21AI055	Sunil Kumar S	
4	1RV21AI008	Aman Tripathi	Private Cloud Implementation using NAS
5	1RV21AI036	Pardhiv V Varma Ganapathiraj	
6	1RV21AI050	Shubham Kumar	
7	1RV21AI060	Vaishnavi Manu Adyam Venimadhav	
8	1RV21AI042	Rohan B Mahendra	Confor Bot
9	1RV21AI051	Siddarh Katta	
10	1RV21AI061	Yazna Kalp	
11	1RV21AI062	Yaduguri Indraneel Reddy	
12	1RV21AI010	Anantha Vishnu N G	Diesease prediction model deployment in Microsoft Azure
13	1RV21AI013	B M Aryaveer Gowda	
14	1RV21AI016	David Yadav	
15	1RV22AI404	Pranathi V	
16	1RV21AI011	Ashika V	Movie Recommndation using Render
17	1RV21AI028	Mohit Lunia	
18	1RV21AI059	Tripti Kanodia	
19	1RV21AI002	Abhinav Anand	
20	1RV21AI019	Dheeraj Manirathnam Anna	

21	1RV21AI021	Granth Mirchandani	Resume Parser Utilizing Google cloud for LLM Computation
22	1RV21AI004	Ahamad Ali Meerasab Athani	Blog App Serverless Web Application Deployment on Cloudfare
23	1RV21AI017	Dev	
24	1RV21AI023	Kumar Aryan	
25	1RV21AI046	Samarth Kumbar	
26	1RV21AI014	B Sai Rohith	Remote Desktop Controll in AWS
27	1RV21AI037	Parth Sai Paladugu	
28	1RV21AI039	Puripanda Sharat Chandra	
29	1RV21AI053	Sreekantha Sreekar	
30	1RV21AI009	Anagha Casaba	EMR Assisted Personalized Meal Recommendation
31	1RV21AI012	Ayush Goyal	
32	1RV21AI052	Sloke	
33	1RV21AI056	Swarna A N	
34	1RV21AI026	Madhumitha K H	CI/CD Pipeline Creation using Git Hub
35	1RV21AI030	Manratha P Bhat	
36	1RV21AI045	Saakshi Bagali	
37	1RV21AI027	Meenakshi Vijay Shinde	Stock Market Prediction Deployed in Amazon Web Server
38	1RV21AI029	N Akash	
39	1RV21AI032	Nimmala Keerthan Reddy	
40	1RV22AI402	Mohammed Faiyaz	
41	1RV21AI020	Ganeshprasad Revadi	Exam paper evaluation
42	1RV21AI031	Naveen S Chegaraddi	
43	1RV21AI047	Shivaprasad Hiremath	
44	1RV21AI035	Om Mangalgi	Medicinal plant classification
45	1RV21AI040	Rahul Anilal	
46	1RV21AI054	Subhash Gupta	
47	1RV21AI403	Phalguna P Shavanak	Invoice automation and fraud detection
48	1RV21AI400	Ajith Subrahmanya M	
49	1RV21AI401	M Madhava Reddy	
50	1RV21AI405	Shashidhara G K	
51	1RV21AI038	Prajwal M Pawar	RVassist
52	1RV21AI001	Aayaan Hasnain	
53	1RV21AI007	Akshay Alva	
54	1RV21AI22	Harshith	MLOps
55	1RV21AI003	Abhishek	
56	1RV21AI005	Ajay Brightson	
57	1RV21AI006	Akhil reddy	
58	1RV21AI015	Ajey Prasad	Personalized career path recommendation
59	1RV21AI025	Maanas M Dev	
60	1RV21AI033	Nishanth Shyam Shankar	
61	1RV21AI044	Rohan Sridar	
62	1RV21AI22	Harshith	MLOps

63	1RV21AI003	Abhishek	
64	1RV21AI005	Ajay Brightson	
65	1RV21AI006	Akhil reddy	
66	1RV21AI059	Tripti Kanodia	Movie recommendation system
67	1RV21AI028	Mohit Lunia	
68	1RV21AI011	Ashika V	

List of Students

Name of the Course: Introduction to Python programming

Year: 2023-24

SL	RVCE ID	Name	Topic
1	RVCE23BBT062	Arya Tote	Crop analysis in North and Southern parts of India
2	RVCE23BBT053	Neya Yallurkar	
3	RVCE23BBT012	Ananya Sreekumar	
4	RVCE23BBT023	Ananya Sudarshan	
5	RVCE23BBT018	Aabha Parag Tembhurne	Student analysis using data visualization
6	RVCE23BBT016	Monika V	Netflix Movies and Shows Dataset
7	RVCE23BBT019	N. Sivakhami	
8	RVCE23BBT026	Neha N Madangerikar	
9	RVCE23BBT022	Nivriti Jain	
10	RVCE23BAI116	Sriram.A	Visualizing the impact of Covid 19 to prevent future epidemic
11	RVCE23BAI088	Sreeharish TJ	
12	RVCE23BAI079	Srihari S	
13	RVCE23BAI030	Zaid Sharieff	
14	RVCE23BBT059	G.Daksha Reddy	Car sales in India (2019-2021)
15	RVCE23BBT056	A.J.Deeksha	
16	RVCE23BBT004	Aarushi Das	
17	RVCE23BBT030	Jayalakshmi	
18	RVCE23BBT034	Prajakta Patil	Genetic disorders based on Genomes and Genetics
19	RVCE23BBT044	Aarti Anand	
20	RVCE23BBT054	Advaith Rambhatla	
21	RVCE23BBT003	Kanva Udupa	
22	RVCE23BAI098	Suravi Reddy	Plot graphs of a dataset related to healthcare using pandas, numpy and math plot
23	RVCE23BAI041	Shresta Namburi	
24	RVCE23BAI076	Shreya Mohan	
25	RVCE23BAI121	Shravyaa S	
26	RVCE23BAI011	Yashpreet Goyal	Performing Exploratory Data Analysis (EDA) on patterns.
27	RVCE23BAI070	Yash Sharma	
28	RVCE23BAI012	Shaurya Singh	
29	RVCE23BBT040	Abhinav Srinivasan	State-wise crop rotation in India
30	RVCE23BBT013	Hari Sudarsan Chinta	

31	RVCE23BBT047	Harshith Krishna K	
32	RVCE23BBT049	Iranna G G	
33	RVCE23BBT013	Hari Sudarsan Ch	Annual Rainfalling Analysiy in india
34	RVCE23BBT047	Harshith Krishna K Rvce	
35	RVCE23BBT040	Abhinav Srinivasan	
36	RVCE23BAI127	Harsh Agrawal	Design and implement a machine learning project for analyzing the TMDb 5000 Movies Dataset with the goal of predicting a movie's success
37	RVCE23BBT017	Adit Nikhil Mutnalkar	
38	RVCE23BBT038	Aditya Raj	

Name of the Course : Universal Human Values

Year: 2022-23

Sl.No	USN	Name	Topic
1	1RV21AI023	Kumar Aryan	Case Study on Stealing to Feed the Hungry
2	1RV21AI004	Ahamad Ali M Athani	
3	1RV21AI013	B M Aryaveer Gowda	Cyber criminal donates stolen money to charity organisation
4	1RV21AI037	Partha Sai Paladugu	The gift of kindness and generosity
5	1RV21AI032	N Keerthan Reddy	
6	1RV21AI008	Aman Tripathi	Unveiling the Shadows: A Case Study on Child Domes:c Labour in India
7	1RV21AI050	Shubham Kumar	
8	1RV21AI009	Anagha Casaba	Ethical Considerations in an Orphanage Setting
9	1RV21AI016	David Yadav	Promoting Human Dignity in Healthcare in India
10	1RV21AI010	Anantha Vishnu N G	
11	1RV21AI027	Meenakshi Shinde	Ethical Dilemma in Software Development
12	1RV21AI028	Mohit Lunia	
13	1RV21AI056	Swarna A N	A case study of school shootings
14	1RV21AI014	B Sai Rohith	Combating Bribery and Upholding Human Values
15	1RV21AI039	P Sharat Chandra	
16	1RV21AI017	Dev	Stampede at Elphinstone Road,Railway Station, Mumbai
17	1RV21AI043	Rohan Menon	Autonomous Cars based Trolley Problem
18	1RV21AI046	Samarth K	Violence against Healing Hands
19	1RV21AI047	Shivaprasad H	
20	1RV21AI036	G Pardhiv Varma	Social Responsibility, Respect and Compassion
21	1RV22AI404	Pranathi V	
22	1RV21AI019	Dheeraj Manirathnam Anna	

23	1RV21AI018	Dhanush S	Unfulfilled Wishes: The Discrepancy Between Love and Duty
24	1RV22AI401	M Madhavareddy	
25	1RV21AI026	Madhumita K H	Bengaluru woman goes to Delhi HC to stop friend's euthanasia trip to Europe
26	1RV21AI030	Namratha Bhat	
27	1RV21AI051	Siddharth.S.Katta	Striking a Balance Professional Ethics, and Enforcement of Traffic Laws
28	1RV21AI042	Rohan.B.Mahendra	
29	1RV21AI062	Yeduguri Indraneel Reddy	Global acquisitions ethics case study
30	1RV22AI402	Mohammed Faiyaz	The Captain's Dilemma: Virat Kohli and the Ethical Crossroads in Cricket
31	1RV22AI405	Shashidhara G K	
32	1RV21AI035	Om Mangalgi	A father's rage
33	1RV21AI040	Rahul Samuel Anilal	
34	1RV21AI041	Revanasiddappa	Zomato Row - Allegations and Accusations The Case of Hitesha Chandranee and Kamaraj
35	1RV21AI055	Sunil Kumar S	
36	1RV21AI025	Maanas M Dev	Caught in the Web: A Target's Experience with Cyber Bullying
37	1RV21AI033	Nishanth Shyam Shankar	
38	1RV21AI046	Samarth K	Violence against Healing Hands: Addressing Safety Concerns for Healthcare Workers
39	1RV21AI047	Shivaprasad H	
40	1RV21AI003	Abhishek N D	Striking the Ethical Balance in Public Services
41	1RV21AI005	Ajay Brightson	
42	1RV21AI011	Ashika V	The lost wallet
43	1RV21AI007	Akshay Alva	Schindler's list moral dilemmas & human values
44	1RV21AI015	C S Ajey Prasad	
45	1RV21AI034	Niveditha V	Ethical Dilemmas in Legal Representation
46	1RV21AI048	Shreyas R	
47	1RV21AI058	Nandhakumar	The Unyielding Spirit of Peng Shuilin: A Journey of Resilience and Hope

48	1RV21AI060	Vaishnavi A	
49	1RV21AI038	Prajwal Pawar	Ethical leadership in contemporary corporate organization
50	1RV21AI001	Aayaan Hasnain	
51	1RV21AI020	Ganeshprasad Revadi	Lack of Respect to the Old Age People in Public Transport
52	1RV21AI031	Naveen S Chegaraddi	
53	1RV21AI049	Shrishti	Ball Tampering Incident in Cricket - Ethical Dilemmas and Reflections
54	1RV21AI057	Swastik Agarwal	
55	1RV22AI400	Ajith Subrahmanya M	Balancing compassion and self care
56	1RV22AI403	Phalguna P Shavanak	
57	1RV21AI044	Rohan Sridhar	Job delima scenario
58	1RV21AI054	Subhash Gupta	
59	1RV21AI006	Akhil Reddy N	Navigating Employee Loyalty and Financial Struggles in Times of Downturn
60	1RV21AI022	Harshith Suresh	
61	1RV21AI012	Ayush Goyal	The stanford prison experiment: an ethical analysis
62	1RV21AI052	Sloke	

Name of the Course : Data Structures and Data Analysis

Year : 2022-23

Slno	USN	NAME	Title
1	1RV21AI001	Aayaan Hasnain	Tourism Management System
	1RV21AI002	Abhinav Anand	
2	1RV21AI049	Shrishti	Instagram
	1RV21AI057	Swastik Agarwal	
3	1RV21AI035	Om Mangalgi	Public Transport
	1RV21AI040	Rahul Anilal	

4	1RV21AI004	Ahamad Ali Meerasab Athani	Call Logs
	1RV21AI008	Aman Tripathi	
5	1RV21AI019	Dheeraj Anna	Disease Diagnose
	1RV21AI012	Ayush Goyal	
6	1RV21AI054	Subhash Gupta	Navigation System
	1RV21AI051	Siddharth S Katta	
7	1RV21AI050	Shubham Kumar	Flight Scheduling
	1RV21AI058	Nandha	
8	1RV21AI031	Naveen S Chegaraddi	Traffic simulation
	1RV21AI024	M S Agneya	
9	1RV21AI017	Dev	Diet Chart plan
	1RV21AI021	Granth Mirchandani	
10	1RV21AI056	Swarna A N	DJ mixing songs
	1RV21AI052	Sloke	
11	1RV21AI023	Kumar Aryan	Library Management System
	1RV21AI037	Partha Sai Paladugu	
12	1RV21AI045	Saakshi Bagali	E-Commerece
	1RV21AI059	Tripti Kanodia	
13	1RV21AI039	P Sharat Chandra	Hospital Priority
	1RV21AI036	G Pardhiv Varma	
14	1RV21AI061	Yazna Kalp	Tic-Tac-Toe
	1RV21AI062	Y Indraneel Reddy	
15	1RV21AI047	Shivaprasad Hiremath	Word search with sentiment Analysis
	1RV21AI046	Samarth K	
16	1RV21AI003	Abhishek N D	Music Synthesis

	1RV21AI015	C S Ajey Prasad	
17	1RV21AI020	Ganeshprasad Revadi	Suduku
	1RV21AI018	Dhanush S	
18	1RV21AI034	Niveditha V	Medical store Management
	1RV21AI027	Meenakshi Shinde	
19	1RV21AI016	David Yadav	Phone Directory
	1RV21AI010	Anantha Vishnu Ng	
20	1RV21AI043	Rohan Menon	Friends recommendation based on common interest
	1RV21AI033	Nishant Shyam Shankar	
21	1RV21AI009	Anagha Casaba	Implementation of Phonebook Mgmt system using c++
	1RV21AI011	Ashika V	
22	1RV21AI055	Sunil Kumar S	Road Traffic
	1RV21AI053	Sreekantha Sreekar	
23	1RV21AI041	Revanasiddappa	File Exporer
	1RV21AI029	N Akash	
24	1RV21AI060	Vaishnavi A	Syntax Checker
	1RV21AI48	Shreyas R	
25	1RV21AI030	Namratha P Bhat	Use of DAG's in MS Excel
	1RV21AI026	Madhumita K H	
26	1RV21AI007	Akshay Alva	Meeting point Finder
	1RV21AI005	Ajay Brightson	
27	1RV21AI022	Harshith Suresh	Airline Routing
	1RV21AI006	Akhil Reddy	
28	1RV21AI025	Maanas M Dev	Tourist Management System
	1RV21AI042	Rohan B Mahendra	

29	1RV21AI038	Prajwal M Pawar	Trie Data Structure in c++
	1RV21AI028	Mohit Lunia	
30	1RV21AI044	Rohan Sridhar	Music Player
	1RV21AI032	Keerthan Reddy	
31	1RV21AI013	B M Aryaveer Gowda	Kidney Exchange problem
	1RV21AI014	Sai Rohith	

List of Students

Name of the Course: Operating System

Year: 2022-23

Slno	USN	NAME	Topic
1	1RV21AI001	Aayaan Hasnain	Main Memory Management And Virtual Memory
	1RV21AI002	Abhinav Anand	Security Of Operating Systems.
2	1RV21AI049	Shrishti	Business Process Management In Operating Systems
	1RV21AI057	Swastik Agarwal	Grid Computing
3	1RV21AI035	Om Mangalgi	Mobile Computing
	1RV21AI040	Rahul Anilal	Process Scheduling And Ai In Operating Systems
4	1RV21AI004	Ahamad Ali Meerasab Athani	Operationg Systems For Internet Of Things
	1RV21AI008	Aman Tripathi	Embedded Operating System
5	1RV21AI019	Dheeraj Anna	Dynamic Process Scheduling Based On Predictive Analytics
	1RV21AI012	Ayush Goyal	Protection Of Operating System
6	1RV21AI054	Subhash Gupta	Dead Lock - Management And Prevention
	1RV21AI051	Siddharth S Katta	High Performance Computing In Operating Systems
7	1RV21AI050	Shubham Kumar	Virtual Machine Security
	1RV21AI058	Nandha	A Study On The Portability Of Iot Operating Systems
8	1RV21AI031	Naveen S Chegaraddi	Distributed Object Computing
	1RV21AI024	M S Agneya	Real Time Scheduling
9	1RV21AI017	Dev	Implementation Of Cps Program In Iot OS
	1RV21AI021	Granth Mirchandani	Main Memory Management And Virtual Memory
10	1RV21AI056	Swarna A N	Security Of Operating Systems.

	1RV21AI052	Sloke	Business Process Management In Operating Systems
11	1RV21AI023	Kumar Aryan	Main Memory Management And Virtual Memory
	1RV21AI037	Partha Sai Paladugu	Security Of Operating Systems.
12	1RV21AI045	Saakshi Bagali	Business Process Management In Operating Systems
	1RV21AI059	Tripti Kanodia	Grid Computing
13	1RV21AI039	P Sharat Chandra	Mobile Computing
	1RV21AI036	G Pardhiv Varma	Process Scheduling And Ai In Operating Systems
14	1RV21AI061	Yazna Kalp	Operationg Systems For Internet Of Things
	1RV21AI062	Y Indraneel Reddy	Embedded Operating System
15	1RV21AI047	Shivaprasad Hiremath	Dynamic Process Scheduling Based On Predictive Analytics
	1RV21AI046	Samarth K	Protection Of Operating System
16	1RV21AI003	Abhishek N D	Dead Lock - Management And Prevention
	1RV21AI015	C S Ajey Prasad	High Performance Computing In Operating Systems
17	1RV21AI020	Ganeshprasad Revadi	Virtual Machine Security
	1RV21AI018	Dhanush S	A Study On The Portability Of Iot Operating Systems
18	1RV21AI034	Niveditha V	Distributed Object Computing
	1RV21AI027	Meenakshi Shinde	Real Time Scheduling
19	1RV21AI016	David Yadav	Implementation Of Cps Program In Iot Os
	1RV21AI010	Anantha Vishnu Ng	Main Memory Management And Virtual Memory
20	1RV21AI043	Rohan Menon	Security Of Operating Systems.
	1RV21AI033	Nishant Shyam Shankar	Business Process Management In Operating Systems
21	1RV21AI009	Anagha Casaba	Main Memory Management And Virtual Memory
	1RV21AI011	Ashika V	Security Of Operating Systems.
22	1RV21AI055	Sunil Kumar S	Business Process Management In Operating Systems
	1RV21AI053	Sreekantha Sreekar	Grid Computing
23	1RV21AI041	Revan Siddappa	Mobile Computing
	1RV21AI029	N Akash	Process Scheduling And Ai In Operating Systems
24	1RV21AI060	Vaishnavi A	Operationg Systems For Internet Of Things
	1RV21AI48	Shreyas R	Embedded Operating System
25	1RV21AI030	Namratha P Bhat	Dynamic Process Scheduling Based On Predictive Analytics

	1RV21AI026	Madhumita K H	Protection Of Operating System
26	1RV21AI007	Akshay Alva	Dead Lock - Management And Prevention
	1RV21AI005	Ajay Brightson	High Performance Computing In Operating Systems
27	1RV21AI022	Harshith Suresh	Virtual Machine Security
	1RV21AI006	Akhil Reddy	A Study On The Portability Of Iot Operating Systems
28	1RV21AI025	Maanas M Dev	Distributed Object Computing
	1RV21AI042	Rohan B Mahendra	Real Time Scheduling
29	1RV21AI038	Prajwal M Pawar	Implementation Of Cps Program In Iot Os
	1RV21AI028	Mohit Lunia	Main Memory Management And Virtual Memory
30	1RV21AI044	Rohan Sridhar	Security Of Operating Systems.
	1RV21AI032	Keerthan Reddy	Business Process Management In Operating Systems
31	1RV21AI013	B M Aryaveer Gowda	Grid Computing
	1RV21AI014	Sai Rohith	Mobile Computing

List of Students

Name of the Course: Principles of Programming Using C

Year: 2022-23

USN	Name	Topic
1RV22AI048	Safiya Farheen	Communication through Optical fibre
1RV22AI008	Ankush Arunkumar	
1RV22AI027	Mishael Abhishek	
1RV22AI056	Snehil Vukkusila	
1RV22AI037	Parth Shukla	4WD Obstacle Avoidance Robot Car
1RV22AI017	Gnyan Mallaiah	
1RV22AI05	Ananth A	
1RV22AI009	Aryan Sinha	Gesture Vocalizer
1RV22AI025	Kushagra Aatre	
1RV22AI054	Shreya M	
1RV22AI010	Ashrith Chitriki	Arduino based seismic monitoring system
1RV22AI023	Kompella Tushar	
1RV22AI028	Mrinal Cariappa Gp	
1RV22AI047	Kushaal S	
1RV22AI044	Ravikiran Aithal	Temperature based fan controller
1RV22AI061	Tanishq M Reddy	
1RV22AI052	Shivakumar Shetty	
1RV22AI021	Shashank Kalkura	
1RV22AI024	Kota Vishnu Datta	Voice controlled Car

1RV22AI013	Chillale Naveen	
1RV22AI016	D.Sai Siva Bhaswanth	
1RV22AI002	Abhishek Bharadwaj	
1RV22AI058	Srivanth Srinivasan	Solving the Schrodinger Wave Equation for a particle in Infinite Potential Well
1RV22AI046	Roshan John	
1RV22AI040	Rachith S	
1RV22AI060	Tanish S	
1RV22AI004	Akshit Agarwal	Quad Motor Obstacle Avoiding Robot Car
1RV22AI033	Nishanth Udupa	
1RV22AI034	Nitinkumar Loni	
1RV22AI042	Rakesh H G	
1RV22AI063	Yashvanth B L	Tachometer using Hall effect sensor
1RV22AI006	Allan Saldanha	
1RV22AI001	Abhinav	
1RV22AI	P Shreyas	
1RV22AI019	J R Nikhil	Automatic railway gate open and closing system
1RV22AI032	Nishanth H R	
1RV22AI029	Nandeesh C M	
1RV22AI039	Preetham N	
1RV22AI040	Lakshmeesha K R	Wireless energy transmission
1RV22AI047	Shivukumar	
1RV22AI020	M Jaswanth Reddy	
1RV22AI027	Sandeep S Pawar	
1RV22AI003	Aditya Tekriwal	Laser Security System
1RV22AI041	Rajyalakshmi Prasanna	
1RV22AI055	Shreyas Jain	Smart Path Finding Robot
1RV22AI045	Rishikesh Kakade	
1RV22AI012	Ayush Chouhan	
1RV22AI050	Saumya Srivastava	
1RV22AI005	Akshita Chavan	Accident Alert System using Accelerometer
1RV22AI031	Nischitha P	
1RV22AI051	Sharankrishna Kondi	
1RV22AI043	Rakesh V Shetty	

Couse Name : Fundamentals of Programming using C

Year: 2023-24

List of Students

Sl. No.	USN	Name	Topic
1	RVCE23BME083	Harini Saravanan	Sorting And Searching Using Array Operations
2	RVCE23BME039	Lok Ranjan P N	
3	RVCE23BME009	Anirudh Kollipara	

4	RVCE23BME029	Harshavardhan P	
5	RVCE23BME025	Mohammad Liyan	Numerical Solutions - Matrix Operations
6	RVCE23BME095	Harinandan	
7	RVCE23BME008	Nikhil Kashyap	
8	RVCE23BME016	Ayush Ingavale	
9	RVCE23BME041	Nihal Sathish	Linear Graph Plotter Using Console
10	RVCE23BME081	Omkar Das	
11	RVCE23BME066	Abhinav Potharaju	
12	RVCE23BME	Aitijhya Sahoo	
13	RVCE23BME102	Diya Sunilkumar Gunaki	Restaurant Management System
14	RVCE23BME123	Nayana H	
15	RVCE23BME	Aman Kumar Gupta	
16	RVCE23BME031	Len Achaiah K M	Currency Converter
17	RVCE23BME020	K M Talin Thimmaiah	
18	RVCE23BME011	Kiruthikram P S	
19	RVCE23BME125	Kishan Kumar U	
20	RVCE23BME044	Panchayya	TIC TAC TOE Game Using C Programming
21	RVCE23BME128	Mahesh	
22	RVCE23BME048	Maheshappa	
23	RVCE23BME006	Gopal Reddy	Calendar
24	RVCE23BME106	Chetan Chanaveeragoudra	
25	RVCE23BME120	Abhinandan Nandagave	
26	RVCE23BME127	Aravind Patil	
27	RVCE23BME096	Abir Mandal	Color Detector
28	RVCE23BME077	Ashraf Ali	
29	RVCE23BME080	Abhinav Kumar	
30	RVCE23BME079	Bulusu Vyaghri Ramachandra Vivek	
31	RVCE23BME069	Kunal Raj	Password Strength Meter
32	RVCE23BME075	Abhishek Gupta	
33	RVCE23BME021	Bhuvan Vasu	Mathematical Series
34	RVCE23BME002	Achinthya G Kadekar	
35	RVCE23BME034	Adithya K	
36	RVCE23BME097	Bhoomith Gowda	
37	RVCE23BME050	Panyam Chetan.S.A	Smart Sync Calander
38	RVCE23BME062	Atharva Srivastava	
39	RVCE23BME064	Akshad Jagdale	
40	RVCE23BME063	Kislay	
41	RVCE23BME010	Devansh Shah	Text Based Calender For Specified Year
42	RVCE23BME094	Kalp Raval	
43	RVCE23BME	Anshul	
44	RVCE23BME109	Chethan R	
45	RVCE23BME012	Harshavardhan Yale	Scientific Calculator Using C
46	RVCE23BME046	Bhuvan S. U	

47	RVCE23BME053	Chinthan K A	
48	RVCE23BME032	Chandran Sulpi	Birthday Calculator In C-Language
49	RVCE23BME058	Mallikarjun	
50	RVCE23BME108	Mallikarjun J S	
51	RVCE23BME017	Likhith .M	
52	RVCE23BME113	Madhura Rao K.S.	Bus Seat Reservation Systems
53	RVCE23BME093	Anirudh Huligeri	
54	RVCE23BME087	Aditya Vinay Nair	
55	RVCE23BME023	Namrata E	
56	RVCE23BIM049	Chaithan Gowda R	Scientific Calculator Using C
57	RVCE23BIM025	Shreya Kalyanee	
58	RVCE23BIM034	Pranshu Shaleen	
59	RVCE23BIM060	G M Bindu	
60	RVCEBME054	Manas Senthil Kumar	Unit Converter

List of Students

Couse Name: **Information Retrieval Systems**

Year: 2023-24

Sl. No.	USN	Name	Topic
1	1RV21AI001	Aayaan Hasnain	Case Study On Bing Search Engine
2	1RV21AI003	Abhishek N D	
3	1RV22AI405	Shashidhara G K	
4	1RV21AI007	Akshay Alva	
5	1RV21AI009	Anagha Casaba	Case Study On Yahoo Search Engine
6	1RV21AI011	Ashika V	
7	1RV21AI013	B M Aryaveer Gowda	
8	1RV21AI015	C S Ajey Prasad	
9	1RV21AI017	DEV	Case Study On Yandex Search Engine
10	1RV21AI019	Dheeraj Anna	
11	1RV21AI021	Granth Mirchandani	
12	1RV21AI023	Kumar Aryan	
13	1RV21AI025	Maanas M Dev	Case Study On Searx Search Engine
14	1RV21AI027	Meenakshi Shinde	
15	1RV21AI029	N Akash	
16	1RV21AI031	Naveen S Chegaraddi	
17	1RV21AI033	Nishanth Shyam Shankar	Case Study On Disconnect Search Search Engine
18	1RV21AI035	Om Mangalgi	
19	1RV21AI037	Partha Sai Paladugu	
20	1RV21AI039	Puripanda Sharat Chandra	
21	1RV21AI041	Revanasiddappa	Case Study On Meta Ger Search Engine
22	1RV21AI043	Rohan Menon	
23	1RV21AI046	Samarth Kumbar	

24	1RV21AI047	Shivaprasad Hiremath	
25	1RV21AI056	SWARNA A N	Case Study On Gigablast Search Engine
26	1RV21AI051	Siddharth S Katta	
27	1RV21AI053	Sreekanth Sreekar	
28	1RV21AI055	Sunil Kumar S	
29	1RV21AI057	Swastik Agarwal	Crawler Based Search Enginees
30	1RV21AI059	Tripti Kanodia	
31	1RV21AI061	Yazna Kalp	
32	1RV22AI400	Ajith Subrahmanya M	
33	1RV22AI402	Mohammed Faiyaz	Types Of Crawlers
34	1RV22AI404	Pranathi V	
35	1RV21AI005	Ajay Brightson	
36	1RV21AI054	Subhash Gupta P	
37	1RV21AI002	Abhinav Anand	Case Study On Duckduckgo Search Engine
38	1RV21AI004	Ahamad Ali Meerasab Athani	
39	1RV21AI006	Akhil Reddy N	
40	1RV21AI008	Aman Tripathi	
41	1RV21AI010	Anantha Vishnu N G	Case Study On Brave Search Engine
42	1RV21AI012	Ayush Goyal	
43	1RV21AI014	B SAI ROHITH	
44	1RV21AI016	David Yadav	
45	1RV21AI018	Dhanush S	Case Study on Ecosia Search Engine
46	1RV21AI020	Ganeshprasad Revadi	
47	1RV21AI022	Harshith Suresh	
48	1RV21AI024	M S Agneya	
48	1RV21AI026	Madhumita K H	Case Study On Gibiru Search Engine
50	1RV21AI028	Mohit Lunia	
51	1RV21AI030	Namratha P Bhat	
52	1RV21AI032	Keerthan Reddy	
53	1RV21AI034	Niveditha V	Case Study On Swisscows Engine
54	1RV21AI036	Ganapathiraju Pardhiv Varma	
55	1RV21AI038	Prajwal M Pawar	
56	1RV21AI040	Rahul Samuel Anilal	
57	1RV21AI042	Rohan B Mahendra	Case Study On Lukol Search Engine
58	1RV21AI044	Rohan Sridhar	
59	1RV21AI045	Saakshi Bagali	
60	1RV21AI048	Shreyas R	
61	1RV21AI050	Shubham Kumar	Search Engine Optimization
62	1RV21AI052	Sloke	
63	1rv22ai403	Phalguna P Shavanak	
64	1RV21AI049	Shrishti	
65	1RV21AI058	T Nandha Kumar	
66	1RV21AI060	Vaishnavi A	

67	1RV21AI062	Yeduguri Indraneel Reddy	Search Engines Used In Mobile Phones
68	1RV22AI401	M Madhavareddy	

List of Students

Name of the Course: Communicative English

Year: 2023-24

Sl.No	USN	Name	Topic of EL
1	1RV22AI057	Srikar Reddy Yettapu	Technology
2	1RV23AI001	Aaditey Chalva	Winter season
3	1RV23AI002	Aanish Khan	Sports
4	1RV23AI003	Abhayachandra C	Winter season
5	1RV23AI004	Abhilash Maiya Y	Sports
6	1RV23AI005	Adheesh Mudgal	deforestation
7	1RV23AI006	Adithya Acharya U	Poetry
8	1RV23AI007	Aditya Kaushik	Summer season
9	1RV23AI008	Aditya Ranjan	SPARK
10	1RV23AI009	Aditya Tripathi	
11	1RV23AI010	Affan Yasir	Sports
12	1RV23AI011	Ahibhruth A	Time management
13	1RV23AI012	Alroy Deon Saldanha	Summer season
14	1RV23AI013	Amogh A P	Time management
15	1RV23AI014	Amudhan S	Crossword puzzle
16	1RV23AI015	Anamay Mittal	Natural Disasters
17	1RV23AI016	Anika Vidya Raghav	Winter season
18	1RV23AI017	Aniket R T	Time Management
19	1RV23AI018	Anjali Suresh Kalarikkal	SPARK
20	1RV23AI019	Anupama	Science
21	1RV23AI020	Apoorva Krishna P	Music
22	1RV23AI021	Arindam Gupta	Women empowerment
23	1RV23AI022	Ashish R Biradar	Essay on Winter season
24	1RV23AI023	B Vinayaka Aili	Mobile Phone
25	1RV23AI024	Ballupet Prakash Monal	Technology
26	1RV23AI025	Bhavin Biju	Winter season
27	1RV23AI026	Bheemaraj Doddamani	Traffic
28	1RV23AI027	Biradar Abhishek Mallikarjun	Winter season
29	1RV23AI028	Daksh Chauhan	Pollution
30	1RV23AI029	Dhaksha Muthukumaran	Music
31	1RV23AI030	Dhanush K M	Time management
32	1RV23AI031	Dhanush R Moolemane	Deforestation
33	1RV23AI032	Dhruv Patankar	Natural disasters
34	1RV23AI033	Diptanshu Kumar	Crossword puzzle
35	1RV23AI034	Garv Agarwalla	Mobile Phone
36	1RV23AI035	Gnanendra Naidu N	Crossword puzzle

37	1RV23AI036	Harsh Agrawal	Winter season
38	1RV23AI037	Hema Umesh Hegde	Technology
39	1RV23AI038	Ishan Shekhar Prasad	Winter season
40	1RV23AI039	Ishita Goyal	Friendship poem
41	1RV23AI040	Joseph Rejo Mathew	Deforestation
42	1RV23AI041	Juned Baba D Hunashimarad	Technology
43	1RV23AI042	K S Shamith Raj	Technology
44	1RV23AI043	Karnati Lakshmi Sree	Music
45	1RV23AI044	Kashish Gupta	Technology
46	1RV23AI045	Kavya Jain	Women empowerment
47	1RV23AI046	Keerthi V C	Music
48	1RV23AI047	Kumar Yash	Time management
49	1RV23AI048	Kushal S Gowda	Cricket
50	1RV23AI049	Machani Bhanu Teja	Mobile phone
51	1RV23AI050	Maheshkumar	SPARK
52	1RV23AI051	Manoj	Time Management
53	1RV23AI052	Manvith S	Crossword puzzle
54	1RV23AI053	Manya Sharma	Winter season
55	1RV23AI054	Mayur Kumar K N	Mobile phones
56	1RV23AI055	Medha Sanketh	Natural disaster
57	1RV23AI056	Mohit M	AI & Health
58	1RV23AI057	Mohith V	sports
59	1RV23AI058	Monil Palak Mehta	Summer season
60	1RV23AI059	Mowin S	Bengaluru traffic
61	1RV23AI060	Mylavaram Phanikumar Sahasra	Science
62	1RV23AI061	N Mohammed Akhil	Rainy day
63	1RV23AI062	N Yamini	Science
64	1RV23AI063	Nandini C	Women empowerment
65	1RV23AI064	Nandini R Aravindakshan	Science
66	1RV23AI065	Navyasri Mahitha Pulipati	Traffic challenges and Solutions
67	1RV23AI066	Neelam J	Pollution
68	1RV23AI067	Niranjan S Kaithota	Crossword puzzle
69	1RV23AI068	Nishan U Shetty	COVID-19
70	1RV23AI069	Nishta N Shetty	Pollution
71	1RV23AI070	Nitish Agarwal	SPARK
72	1RV23AI071	Nitya Sharma	
73	1RV23AI072	Penchala Himashree Perumalla	Indian festivals
74	1RV23AI073	Pratham M Mallya	Winter season
75	1RV23AI074	Preetam Baheti	AI
76	1RV23AI075	Preetham R	COVID-19
77	1RV23AI076	Priyansh Abhishek Poddar	Winter season
78	1RV23AI077	R Daksharani	Pollution
79	1RV23AI078	Raghavi U Baler	Traffic
80	1RV23AI079	Ramita K A	College festival
81	1RV23AI080	Ravi Kishan Kumar	AI
82	1RV23AI081	Rayala Yuvaraj Vaishnav	AI
83	1RV23AI082	Rushil Shodavaram	COVID 19
84	1RV23AI083	S Vishwanatha	Crossword puzzle

85	1RV23AI084	Sachit Ramesha Gowda	Winter season
86	1RV23AI085	Samruddhi D	Crossword puzzle
87	1RV23AI086	Sankalp Khamesra	Crossword puzzle
88	1RV23AI087	Sasank Sekhar Panda	AI
89	1RV23AI088	Shalini P	College Fest
90	1RV23AI089	Shanavi Narayan	Winter season
91	1RV23AI090	Shanthesh A S	Crossword puzzle
92	1RV23AI091	Shashank Krishnamani	Winter season
93	1RV23AI092	Shaurya Singh	Crossword puzzle
94	1RV23AI093	Shravyaa S	Poem
95	1RV23AI094	Shresta Namburi	College fest
96	1RV23AI095	Shreya Mohan	Traffic
97	1RV23AI096	Shreyas Bharadwaj	Crossword puzzle
98	1RV23AI097	Shripoorna Badagandi	Time management
99	1RV23AI098	Shubh Somani	Winter season
100	1RV23AI099	Shubhaditya Basudeo Bechan	Sports
101	1RV23AI100	Shubham Kumar Pandey	Winter season
102	1RV23AI101	Siddarth A Thotada	
103	1RV23AI102	Siri Kumar C S	
104	1RV23AI103	Sourabh R Shetty	Time management
105	1RV23AI104	Sreeharish T J	Winter season
106	1RV23AI105	Sri Ram A	Winter season
107	1RV23AI106	Srihari S	Cross word puzzle
108	1RV23AI107	Srujan R	Time Management
109	1RV23AI108	Sumith S Shet	Tourism in India
110	1RV23AI109	Suravi Reddy	College Fest
111	1RV23AI110	Surya Pratap Singh	Sports
112	1RV23AI111	T P Mohith	Winter season
113	1RV23AI112	Tanuj S	Time Management
114	1RV23AI113	Tejas Anand	Indian Festival
115	1RV23AI114	Tharun Gowda P R	SPARK
116	1RV23AI115	Vaibhav S P	Tourism in India
117	1RV23AI116	Vaivaswat Verma	Indian festivals
118	1RV23AI117	Velumuri Sriram Kumar	SPARK
119	1RV23AI118	Vijaykumar B K	COVID 19
120	1RV23AI119	Vikas Lalwani	Sports
121	1RV23AI120	Vinod Kumar	Tourism in India
122	1RV23AI121	Yash Sharma	Sports
123	1RV23AI122	Yashas H D	Crossword puzzle
124	1RV23AI123	Yashna Bhandary	Pollution
125	1RV23AI124	Yashpreet Goyal	Tourism in India
126	1RV23AI125	Yug Shivhare	Tourism in India
127	1RV23AI126	Zaid Sharieff	Indian Festivals

List of Students

Course: Database Management Systems

Year : 2022-23

SL NO.	USN	NAME OF THE STUDENT	Topic of EL / PBL
1	1RV21AI035	Om Mangalgi	Rvdar : An Effective Way To Travel Through Rvce
2	1RV21AI040	Rahul Samuel Anilal	
3	1RV21AI054	Subhash Gupta	
4	1RV21AI004	Ahamad Ali Meerasab Athani	It Consultancy Management
5	1Rv21AI023	Kumar Aryan	
6	1RV21AI005	Ajay Brightson	Dental Clinic Management
7	1RV21AI038	Prajwal M Pawar	
8	1RV21AI056	Swarna A N	
9	1RV21AI047	Shivaprasad Hiremath	Billing Management System-Retail Stores
10	1RV21AI031	Naveen S Chegaraddi	
11	1RV21AI020	Ganeshprasad Revadi	
12	1RV21AI024	M S Agneya	Agricultural Trading System
13	1RV21AI029	N Akash	
14	1RV21AI046	Samarth K	
15	1RV21AI001	Aayaan Hasnain	Inventory Management System
16	1RV21AI007	Akshay Alva	
17	1RV21AI015	C.S Ajey Prasad	
18	1RV22AI403	Phalguna P Shavanak	Train Ticketing System
19	1RV22AI400	Ajith Subrahmanya M	
20	1RV22AI400	Ajith Subrahmanya M	
21	1RV21AI017	Dev	RTO Management System
22	1RV21AI021	Granth	
23	1RV21AI002	Abhinav	
24	1RV21AI060	Vaishnavi A	Wildlife Management System
25	1RV21AI009	Anagha Casaba	
26	1RV21AI008	Aman	
27	1RV21AI057	Swastik Agarwal	Real Estate Management System
28	1RV21AI049	Shrishti	
29	1RV21AI050	Shubham Kumar	
30	1RV21AI011	Ashika V	Journal Management System
31	1RV21AI059	Tripti Kanodia	
32	1RV21AI028	Mohit Lunia	
33	1RV21AI037	Partha Sai Paladugu	Bike Rental Service
34	1RV21AI014	B Sai Rohith	
35	1RV21AI032	N Keerthan Reddy	

36	1RV21AI041	Revanasiddappa	Parking Lot Management System
37	1RV21AI055	Sunil Kumar S	
38	1RV21AI053	Sreekantha Sreekar	
39	1RV22AI401	Madhava Reddy	Court Case Management System
40	1RV21AI058	T Nandha Kumar	
41	1RV21AI039	P Sharat Chandra	Student Management System
42	1RV21AI062	Indraneel Reddy	
43	1RV21AI044	Rohan Sridhar	
44	1RV21AI026	Madhumita K H	Court Case Database Management System
45	1RV21AI030	Namratha Bhat	
46	1RV21AI045	Saakshi Bagali	
47	1RV21AI003	Abhishek N D	Advertisement Agency Client Management System
48	1RV21AI006	Namratha Bhat	
49	1RV21AI022	Harshith Suresh	Jewellery Management System
50	1RV21AI019	Dheeraj Anna	
51	1RV21AI052	Sloke	
52	1RV21AI016	David Yadav	Poultry Farm Management System
53	1RV21AI013	Aryaveer Gowda	
54	1RV21AI010	Anantha Vishnu	
55	1RV21AI030	Nivedita	Library Management System
56	1RV21AI029	Shreyas R	
57	1RV21AI020	Dhanush	
58	1RV21AI035	Meenakshi	Social Impact Tracking
59	1RV21AI027	Rohan Mahendra	
60	1RV21AI060	Yaznakalp	
61	1RV21AI040	Nishanth	Inventory Management
62	1RV21AI050	Maanas	
63	1RV21AI020	Siddarth Katta	

List of Students

Course : Programming in C
Year: 2021-22

SL NO.	USN	NAME OF THE STUDENT	Topic of EL / PBL
1	RVCE21BAI001	Saakshi Bagali	Algorithms
2	RVCE21BA1002	N Akash	Flow Charts
3	RVCE21BAI004	Madhumita Kh	Operations On Pointers
4	RVCE21BA1005	Sreekantha Sreekar	Searching Problems
5	RVCE21BA1003	Rahul Samuel Anilal	Sorting Problems
6	RVCE21BAI006	Nishanth Shyam . Shankar	Running The C Program
7	RVCE21BAI007	Yeduguri Indraneel Reddy	Keywords
8	RVCE21BAI008	Siddharth S Katta	Identifiers

9	RVCE21BAI009	Rohan B Mahendra	Formatted Input
10	RVCE21BAI010	Yazna Kalp	Formatted Output
11	RVCE21BAI012	Meenakshi Vijay Shin	Arithmetic Operators
12	RVCE21BAI013	Rohan Menon	Pointers And Strings
13	RVCE21BAI014	Granth Mirchandani	Typecasting Of Pointers
14	RVCE21BAI015	Ahamad Ali Meerasab Athani	Relational Operators
15	RVCE21BAI016	Abhishek N D	Pointers And Functions
16	RVCE21BA1017	B Sai Rohith	Logical Functions
17	RVCE21BA1018	Cs Ajey Prasad	Increment And Decrement Operators
18	RVCE21BA1019	Parthasai Paladugu	Evaluation Of Expressions
19	RVCE21BA1020	Ganeshprasad Revadi	Type Conversion In Expression
20	RVCE21BA1021	Sunil Kumar S	Bitwise Operators
21	RVCE21BA1022	Subhash Gupta Patchipulusu	Pointers And Functions
22	RVCE21BAI023	Revanasiddappa	Operator Precedence And Associativity
23	RVCE21BA1024	Ashika V	Simple If Statement
24	RVCE2IBAI025	Shrishti	If Else Statement
25	RVCE2IBAI026	Akhil Reddy N	The Elseif Ladder
26	RVCE2IBAI027	Kumar Aryan	Switch Statement
27	RVCE2IBAI029	Puripanda Sharat Chandra	Goto Statement
28	RVCE21BAI030	Aayaan Hasnain	Initialization Of Pointers
29	RVCE21BAI031	Dev	Types Of Arrays
30	RVCE21BAI032	Harshith Suresh	Initialization Of One Dimensional Array
31	RVCE2IBA1033	Mohit Lunia	Two Dimensional Array
32	RVCE21BA1034	Swastik Agarwal	Initialization Of Strings Using Array
33	RVCE21BA1035	Vaishnavimanu Adyam Venimadhav	String Operations And Functions
34	RVCE21BA1036	Sloke	Types Of Functions
35	RVCE21BAI037	Ayush Goyal	Recursion -Binary Search
36	RVCE21BAI038	Abhinav Anand	Recursion Quicksort
37	RVCE21 BAI039	Akshay Alva	Recursion -Mergesort
38	RVCE21BAI040	Dheerajmanirathnam Anna	Storage Classes Of Functions
39	RVCE21BA1041	Nimmala Keerthan Reddy	Recursion - Towers Of Hanoi
40	RVCE21BAI1042	David Yadav	Recursion - Fibonacci Series

41	RVCE21BAI043	Shivaprasad Hiremath	Recursion – Factorial Of A Number
42	RVCE21BAI044	M S Agneya	For Loop
43	RVCE2IBAI045	Bmaryaveer Gowda	While Loop
44	RVCE21BAI047	Prajwal M Pawar	Jumps In Loops
45	RVCE21BA1048	Anantha Vishnung	Recursion – Find Smallest Missing Element In The Sorted Array
46	RVCE21BAI050	Maanas M Dev	Recursion - Bubble Sort
47	RVCE21BAI052	Naveens Chegaradddi	Recursion - Number As A Input And Return Factorial Of A Number
48	RVCE21BAI053|	Ajay Brightson	C Program To Print Flyods Triangle
49	RVCE21BAI054	Om Mangalgi	C Program To Insert New Element In A Sorted Array
50	RVCE21BAIO55	Namratha P Bhat	C Program To Sum Of Left Diagonals Of A Matrix
51	RVCE21BAI056	Anagha Casaba	To Calculate Determinant Of The Matrix
52	RVCE2IBAI58	Rohan Sridhar	To Remove Characters In String Except Alphabets
53	RVCE21BAI059	Shubham Kumar	Program To Check Whether Two Strings Are An Anagram
54	RVCE21BAI060	G Pardhiv Varma	Program To Convert String To Double
55	RVCE2IBA1061	Tripti Kanodia	Program To Allocate A Block Of Memory For An Array
56	RVCE21BA1062	Aman Tripathi	Program To Print The Entered Characters In The Revers Ay

DEPARTMENT OR COMPUTER SCIENCE ENGINEERING

This report explores the importance and benefits of experiential learning practices in the Department. It examines various methods and approaches used in experiential learning and highlights their impact on student engagement, skill development, and overall learning outcomes. Additionally, the report discusses the challenges and opportunities associated with implementing experiential learning initiatives and provides recommendations for educators and institutions looking to integrate experiential learning into their curriculum.

Table of Contents:

1. Introduction:

Experiential learning is a dynamic educational approach that emphasizes hands-on, practical experiences as the primary means of acquiring knowledge, skills, and understanding. Rather than relying solely on traditional classroom instruction, experiential learning actively engages learners in real-world activities, encouraging them to explore, experiment, and reflect on their experiences. Through direct involvement in tasks, projects, simulations, or fieldwork, individuals not only gain a deeper understanding of the subject matter but also develop critical thinking, problem-solving, and decision-making abilities. Experiential learning recognizes that meaningful learning occurs when learners are actively engaged, allowing them to connect theory with practice, confront challenges, and learn from both success and failure.

2. Theoretical Framework of Experiential Learning:

Here, the report delves into the theoretical underpinnings of experiential learning, including models such as Kolb's Experiential Learning Cycle and Dewey's theory of learning by doing (PBL). It explores how these theories inform the design and implementation of experiential learning practices.

3. Types and Approaches of Experiential Learning

This section discusses various types and approaches of experiential learning, such as internships, project-based learning, and simulations. It examines the characteristics

of each approach and provides examples of how they are used in different educational contexts.

Years wise Broad Topics

<table>
<tr><th colspan="3">2023-24</th></tr>
<tr><td>Sl.No</td><td>EVEN Semester Topics (EL/PBL)</td><td>ODD Semester Topics (EL/PBL)</td></tr>
<tr><td></td><td>II Semester has started now</td><td><table>
<tr><td>Operating Systems(CS235AI)
Implementation of a kernel</td></tr>
<tr><td>Round Robin Implementation</td></tr>
<tr><td>Memory management API</td></tr>
<tr><td>Cross Platform Virtual Memory Profiler</td></tr>
<tr><td>Creating a File system</td></tr>
<tr><td>Making our own file system</td></tr>
<tr><td>Implementing a Virtual Memory - Page Allocator</td></tr>
<tr><td>Memory leak detection</td></tr>
<tr><td>Client server communication with synchronization</td></tr>
<tr><td>Create your own file system</td></tr>
<tr><td>File management system</td></tr>
<tr><td>Virtual memory and Page algorithms</td></tr>
<tr><td>Inter Process Communication (chat system)</td></tr>
<tr><td>VirtualThreadLab: Interactive Learning for OS Thread Mastery</td></tr>
<tr><td>Lock-free data structures</td></tr>
<tr><td>Process scheduling simulator</td></tr>
<tr><td>Optimized Distributed File System for Machine Learning Workloads</td></tr>
<tr><td>Simulate or emulate Round robin scheduling.</td></tr>
<tr><td>EduCore Operating System (Operating System for Educational Use)</td></tr>
<tr><td>File Compression and Encryption:</td></tr>
<tr><td>Implementing a Kernel With Box graphics based tic tac toe game within Kernel</td></tr>
</table></td></tr>
<tr><td></td><td>IV and VI semester UG yet to start</td><td>Minor project developed details given below</td></tr>
<tr><td></td><td>Advanced Data Structures and Algorithms
22MCE12TL
1. Design and implement a Θ(n) algorithm that will simultaneously find the largest and second largest elements (integers) in an array.
2. We want to search the string S = 567467014777 for the pattern P = 777 with the Karp-Rabin algorithm. Assume</td><td>NVDIA certificate on Jetson Nano</td></tr>
</table>

our alphabet consists of the decimal digits (0, 1, …, 9). Our computer is quite limited, and we have to do all operations modulo 10 to make everything fit into one digit. Show all the spurious matches that occur before we get a correct match at the end. Implement the same and show the output.

3. Run the Bellman-Ford algorithm on the directed graph of Figure given below, using vertex z as the source. In each pass, relax edges in the same order as in the figure, and show the d and π values after each pass. Now, change the weight of edge (z, x) to 4 and run the algorithm again, using s as the source.

4. If radix sort uses an unstable sorting algorithm to sort the digits in radix sort, is it still guaranteed to work correctly? Justify with suitable example

5. In the longest path problem, we're given a weighted directed graph G = (V;E;w), a source s 2 V ,and we're asked to find the longest simple path from s to every vertex in G. For a general graph, it's not known whether there exists a polynomial-time algorithm to solve this problem. If we restrict G to be acyclic, however, this problem can be solved in polynomial time. Give an efficient algorithm for finding the longest paths from s in a weighted directed acyclic graph G, give its runtime, and explain why your solution doesn't work when G is not acyclic

6. Show the major operations of Mergeable Heap operations

ADLDCO(CS234AI)

Computers Accessible for Disabled (Handicapp
ANTI-THEFT FLOORING SYSTEM
Smart Billing system using Rfid
Energy-efficient data-aggregation for optimizin wireless sensor network
Milk purity detector
Blockchain Enabled Smart Contracts in Supply
Cost-effective and portable 2.5D CNC Robot for
SUSTAINABLE HOME AUTOMATION HUB
Smart environmental monitoring system using
ROBOTICS IN E-WASTE MANAGEMENT AND S
Smart Intrusion Detection with Emergency Dia

		Smart Kitchen System - Food Spoilage Detection smart doorbell system Priority control for emergency vehicles BRAIN TUMOR DETECTION
		ADVANCED ALGORITHMS(V SEMESTER) ● usage of advanced algorithms in generative ai and hadoop- Ai Patent chatbot. ● TF-IDF (Term Frequency-Inverse Document Frequency) algorithm in NLP and its applications ● Use of Advanced Algorithms in Distributed Retail Analytics System ● Use of AA in Social Media friends recommendation system ● Student Attainment Analyzer ● advanced algorithms in sentiment analysis ● Dynamic Image Analysis of Microscopic Particles ● Garbage Collection Algorithms ● Use of AA in image processing in distributed environment ● Some Algorithms used in Weather Forecasting ● Use of Advanced Algorithms in Job Recommendation system ● Optimized Image Compression Using Run Length Encoding
		Natural Language Processing (Professional Elective-C2) 22MCE2C2 To compute word embeddings and use them for sentiment analysis: ·To implement sentiment analysis, you can go beyond counting the number of positive words and negative words. · You can find a way to represent each word numerically, by a vector. · The vector could then represent syntactic (i.e. parts of speech) and semantic (i.e. meaning) structures.

		Here, you will explore a classic way of generating word embeddings or representations and you will implement a famous model called the continuous bag of words (CBOW) model. To explore, how to preprocess tweets for sentiment analysis using Twitter datasets. 2. To explore word vectors, the vector encodes the meaning of the word. These numbers (or weights) for each word are learned using various machine learning models. 3. In this problem, you will develop the skills in Part-of-Speech (POS) tagging, the process of assigning a part-of-speech tag (Noun, Verb, Adjective…) to each word in an input text. Tagging is difficult because some words can represent more than one part of speech at different times. They are Ambiguous. Let us look at the following example: · The whole team played well. [adverb] · You are doing well for yourself. [adjective] · Well, this assignment took me forever to complete. [interjection] · The well is dry. [noun] · Tears were beginning to well in her eyes. [verb] 4. Visualizing tweets and interpret the Logistic Regression model 5. To explore, how to preprocess tweets for sentiment analysis using Twitter datasets
		PADP ALPR for Indian Scenarios ALPR for Indian Scenarios Heart Failure Detection Heart Failure Detection Comparitive analytics of best scenarios for CPU and GPU. Comparitive analytics of best scenarios for CPU and GPU. Fast Fourier transforms

		Big Basket Recommendation system using FAISS model: A CUDA powered analysis Big Basket Recommendation system using FAISS model: A CUDA powered analysis Fast Fourier transforms Image upscaling and LLM inferencing using CUDA Image upscaling and LLM inferencing using CUDA text to image generation using cuda Sentiment Analysis on Customer Reviews Using CUDA Sentiment Analysis on Customer Reviews Using CUDA Lung Cancer Detection through GPU Parallelization: A CUDA-powered Comparative Analysis Lung Cancer Detection through GPU Parallelization: A CUDA-powered Comparative Analysis Particle Simulation using CUDA Particle Simulation using CUDA Nqueen's problem using CUDA Optimised Prewitt Edge Detection with CUDA Optimised Prewitt Edge Detection with CUDA Accelerating Water Quality Detection through GPU Parallelization Accelerating Water Quality Detection through GPU Parallelization The Game of Life The Game of Life X-Ray Anatomy Classification (using Cuda GPU) Image Greyscaling using CUDA Image Greyscaling using CUDA Plant disease detection using CUDA Plant disease detection using CUDA Image upscaling using CUDA 2D & 3D Convolutions using CUDA 2D & 3D Convolutions using CUDA Radix sort using CUDA Radix sort using CUDA Parallelising complex mathematical calculations using cuda Parallelising complex mathematical calculations using cuda

		car price prediction using cuda car price prediction using cuda Accelerating Network Anomaly Detection through GPU Parallelization Accelerating Network Anomaly Detection through GPU Parallelization Parallel AES Algorithm using CUDA Parallel AES Algorithm using CUDA Cholesky Decomposition Matrix Algorithm using CUDA Cholesky Decomposition Matrix Algorithm using CUDA Image-processing using CUDA. Image-processing using CUDA. diabetes prediction using CUDA diabetes prediction using CUDA Video Processing using CUDA Video Processing using CUDA Visual Question Answering using CUDA Visual Question Answering using CUDA Tensorflow-GPU vs CPU Performance comparison
		Advances in Computer Networks (22MCN12TL) Semester is still in progress **Topic Title** Nmap for Ethical Hacking Analysis of Load balancing algorithms Implement Client Server for connectionless using C or C++ Bandwidth Reduction and Compression for Images Building an OpenFlow based Firewall using Python, Mininet and Ryu controller TCP Congestion Control using TCP Reno Protocol using NS3 SNMP Agent simulator

		Bandwidth usage monitoring Chat application using sockets API in C (Demo using minimum 8 clients): Simulation of EIRGP, TCP, UDP, protocol
		Computer Graphics & Virtual Reality(18CS72) — 7th Sem • Speed Runner Game • VR Tour of Apartment • Virtual Movie theatre Experience • Solar System Simulation in VR • Small Fighter Game • Solar System Simulation in VR • Interactive 3D Website • Virtual Movie theatre Experience • Interactive 3D Website • Obstacle Avoidance Game • Unity 3D Car Simulation • Axe Thrower "Gods of War Axe Throw" • 3D Tank game • Unity 3D Car Simulation • 3D Pool Game • Racing Car Game • Designing a Virtual Art Gallery • Unreal Shooter • CubeTrix Game • Interactive Virtual Chemistry Lab Expt in Unity • Street Racing • Red Runner Game • 3d chess using unity • First person Shooter Game

		• Car Racer • Hotel Room Simulation • Mini Golf • Visualization of Sorting Algorithm • Wumpus World Simulator • Realistic VR from Still Images • Fire Fighting Simulator • Haunted House in Unity • Flippy Bike Game • Virtual Museum/Gallery Experience • Arcade vehicle controller • Tourism Museum • Momentum Cube
		Artificial Intelligence and Machine Learning (21AI52) · Securing Visual Integrity: Detecting Deepfake Images Using Deep Learning Techniques · Drowsiness Detection Using Yolov5 · Detection Of Vehicle Insurance Claim Frauds · Sign Language Detection Using Opencv And Deep Learning · Multilingual Conversational Chatbot For Ramayana · Rvchat : Conversational Ai For Offline Learning · Raga Identification Of Indian Classical Carnatic Music · Pick Reader(Counting Number Of Threads In A Fabric) · Efficient Patent Information Retrieval Using An Ai-Powered Chatbot · Credit Fraud Detection Using Machine Learning · Disease Prediction And Medical Insurance Claim Prediction Using Cnn · Raga Identification Of Indian Classical Carnatic Music

		· Image Detection System · Deepfake Audio Detection · Book Recommendations Using Collaborative Filtering · Mitigating Social Engineering Attacks By Leveraging A.I. And Big Data · Anime Style Image Genaration Using Gan's · Face Recognition System · Binarisation Process Of Epigraphic Images · Image Restoration Using Deep-Image-Prior(Inpainting And Flash-No-Flash) · Iris Recognition System · Waste Segregation And Classification Using Deep Learning Algorithms · Automatic Fabric Identification And Classification Using Deep Learning · Food Demand Forecasting Using Deep Learning · Sms Spam Detection · Road Sign Recognition System · Deep Fake Detection Using Transfer Learning (Military) · Sentiment Analysis For Kannada · Efficient Patent Information Retrieval Using An Ai-Powered Chatbot · Debunking Vocal Deceptions:A Deep Learning Approach To Detecting Deep Fakes · Pneumonia Detection System
2022-23		
	Principle of Programming usin C-22CS23	**Principle of Programming usin C-22CS23**
	Electric Vehical(Adoption of EV's in future. Wil	

	Sensors in Autonomous Vehicles (Case Study)	Applications of Graph Theory in Google Maps	
	Arduino based smartphone controlled robo car	Image Steganography	
	Electric Vehicles - Simulation of an electric drivetrain using MATLAB	APPLICATIONS OF THE CODING THEORY	
	Employment of Robots in E waste/Hazardous Chemical management	Application of set theory in Artificial intelligence	
	Summarised assessment of EV sector on economy of developing country	Applications of Discrete Mathematical Structures in voice c	
	Applications of Smart Sensors in Seismic Monitoring	Applications of Discrete Mathematics in solving Optimizati	
	Role of Robotics in Disaster Management	APPLICATION OF DMS IN IMAGE COMPRESSION AND FILTERING	
	Structural health monitoring system	TURING MACHINES	
	IOT Based Smart Lighting System	APPLICATION OF GRAPH THEORY IN AIR TRANSPORTATI NETWORK	
	Smart sensors and potential role in minimising human animal conflict	Applications of DMS in Graph Theory	
	Surveillance Spy Robot	Application of DMS in Elliptical Curve Digital Signature Alg	
	Efficacy of Robotic Sampling Techniques on the onset of Future Pandemics	Applications of DMS in Graph Theory	
	Practical Evaluation of Robotics in suburban transportation and collision avoidance	Applications of Discrete Mathematical Structures in Huffm	
	Conversion of IC engine to Electric Vehicles	Application of DMS in Graph Theory	
	PIEZOELECTRIC BASED POWER GENERATION	APPLICATION OF PROBABILITY IN GAME THEORY	
	Maglev trains for rapid mass transport		
	Smart Metro Signalling System		
	Performance Comparison of Different Storage Devices in EV's		
	Humanoids in industry		

1

Machine Learning(18CS6D1)
Predictive Maintenance in Manufacturing using Machine Learning
Drug classification
Credit card fraud detection using random forest model
Classification of fault in a power system using Machine Learning.
AI based Yoga Trainer Machine Learning Web Application
Custom Segmentation and Clustering
Supervised learning using python
Battery management system
Employee attrition problem

Operating Systems(21CS35)

performance comparison of HPCC compared with standalone TensorFlow with GPUs
Minix operating system - any modifications and compilation
Linux kernel compilation
Tracing of XV6 operating system
Implement a simple file system to handle files on an emulated disk (via a large file) --- file system API, superblock, inode and data block management.
In XV6 OS Write a system to call to output per process address space details 2. Write a system to call to determine physical address of a virtual address
In XV6 OS Observe the stack pointers, privilege level registers in user and OS

	AI Based Yoga Trainer using Machine Learning Web Application Predicting Product prices using deep learning Aircraft engine price prediction using Python Face Detection and Recognition Using Machine Learning Gold Price prediction using ML Air pollution Air quality prediavtion of relative humidity Cat and dog classsification Breast cancer prediction Fake news detection using machine learning Crop Recommendation System Spam Detection Predictive Maintenance in Car Engine strength prediction	modes 4. Modifying/profiling behaviour of exception handlers Observe process file table entries and file objects across parent and child processes Write a system call to allocate the same physical block to different virtual addresses Implement lazy allocation of physical memory to processes System call to print saved state of any process 4. Write a system call to induce page faults Design and implement a shared message queue between processes to be used via the system call interface Understanding features of modern filesystems -ZFS https://www.cse.iitb.ac.in/~mythili/teaching/cs347_autumn2016/labs/lab7.pdf Understanding features of modern filesystems – EXT4 https://www.cse.iitb.ac.in/~mythili/teaching/cs347_autumn2016/labs/lab7.pdf Proc File System Perform the tasks given in link https://www.cse.iitb.ac.in/~mythili/teaching/cs347_autumn2016/labs/lab1.pdf Implement copy-on-write fork in Xv6 ps, pstree, proc file system, and related commands to study the processes in system strace, free, top, htop, vmstate, /proc/pid/maps study debugging tools demonstration and documentation - example gcc, gdb, objdump, shell scripts Linux case study : design principles (21.2), kernel modules(21.3) - presentation in class Linux case study: process management(21.4), process scheduling (21.5) - presentation in class Linux case study: Memory management(21.6), Case study: FAT, NTFS and Ext filesystems Boot Loader
	Web Technology (18IS6D1) supply chain dapp Online Course Management System Airport Management System Hospital Management System School Management System Hospital Bed slot booking system Student Management System Gym management system spotify clone	A course in Course era

Tourism Website Management System	
Movie Recommendation System	
Food recommendation system	
HydroML: Empowering water management with the power of machine learning	
Semantic Segmentation of Underwater Mines	
food waste reduction application for connecting with needy	
Decentralised Chat Application	
Event booking system	
Apartment Management System	
Tour management system	
Music Recommendation System	
Movie ticket booking website	
Expedition viewing system	
Apartment Managemnet system	
Travel Expedition Manager	
Second Hand Book Exchnage	
e-Learning Managment System	

Software Engineering(18IS55)

Predictive Maintenance in Manufacturing usi Learning
Drug classification
Credit card fraud detection using random fores
Classification of fault in a power system usi Learning.
AI based Yoga Trainer Machine Learning Web A
Custom Segmentation and Clustering
Supervised learning using python
Battery management system
Employee attrition problem
AI Based Yoga Trainer using Machine Le Application
Predicting Product prices using deep learning
Aircraft engine price prediction using Python
Face Detection and Recognition Using Machine
Gold Price prediction using ML
Air pollution
Air quality prediavtion of relative humidity
Cat and dog classsification
Breast cancer prediction
Fake news detection using machine learning
Crop Recommendation System
Spam Detection
Predictive Maintenance in Car Engine
strength prediction

Minor project developed details given below

ADVANCED ALGORITHMS (VI SEMESTER)

- Implementation of Hungarian Algorithm
- Implementation of Treaps
- Determination of Best route using TSP

Foundations of computer systems design(21CS34)

Department Project- Auto Pick Reader Imple using C
Mining worker safety helmet
smart irrigation system using iot with an app
Smart home lighting system

	• Messaging App with Cyberbully Detection • Sign Language Recognition using LSTM • Q Learning Algorithm for Autonomous Cars • Tracing Connections through Six Degrees • Path planning using RRT* algorithm • Project Planner for Small Scaled Software Engineering Projects • Advertisemnt Recommendation System Image caption generator using CNN and LSTM	Sign Language Translator with Raspberry Pi Applications of robotics in different sectors. Burglary detection using self monitoring cctv cameras Heart Monitoring and Diagnosis using Smart Sensors Defect inspection using Bluetooth controlled car Design and Development of Smart Medicine Box home automation using cloud computing Automatic vacuum cleaner speed checker to detect rash driving Wheelchair control through blinking and IOT
	Advanced Data Structures and Algorithms 22MCE12TL Apply Naïve string-matching algorithm for the t given below. Mention the total number of comp Text: abacaabaccabacabaabb Pattern: abacab Show the operations of Disjoint Sets and calcu Apply KMP string matching algorithm for the t given below. Mention the total number of comp Text:00000000000000000000000001 Pattern: 0000000000001 Suppose you are choosing between the followin Algorithm A solves problems by dividing them in solving each subproblem, and then combining Algorithm B solves problems of size n by recurs then combining the solutions in constant time. Algorithm C solves problems of size n by divi recursively solving each subproblem, and then are the running times of each of these algorit choose? You have a business with several offices; you with each other, and the phone company ch different pairs of cities. You are assigned the ta a set of lines that connects all your offices w network to remove some edges in the teleph telephone network looks like the one given be telephone network.	**INTRODUCTION TO CYBER SECURITY(II SEMESTER)** • Vulnerability Management • How to secure Internet of Things (IoT) devices • survey on cyber security for University • The working and effect of Metasploit • Survey on tools for vulnerability analysis • cybercrime and threat • Cryptography • SQL Injection Essentials: Tools, Techniques, and Countermeasures • Elliptical Curve Cryptography (ECC) • CLOUD SECURITY • Banking fraud • CYBER BULLYING AND PREVENTION • Smart city and its security crises • Nmap tool analysis and working • Online banking authentication (ATM authentication and security using biometrics • Server-side attacks (using Nexpose and Kali) • Two factor authentication • DATA LEAK DETECTION • MESSAGE ENCRYPTION • inSpy tool

		● Network Analysis Using TCP DUMP
		Natural Language Processing (Professional Elective-C2) 22MCE2C2 Compute word embeddings and use them for scratch. Learn how to create batches of data. Under visualize your learned word vectors. Preprocess tweets for sentiment analysis using Load and preprocess the Twitter dataset. Remove hyperlinks, Twitter marks and styles. Tokenize the string, remove stop words and pu Process the Tweets Predict relationships among words, Use PCA embeddings and plot them in two dimensions Compare word embeddings by using a similarit Similarity Predict the Countries from Capitals and calcula
		ODD Semester Topics (EL/PBL) **ADVANCES IN DATA BASE MANAGEMENT & MINING (**22MCE13)
		● Introduction to the concepts of GIS ● Introduction, definition and Syntax of XML ● Introduction to OLAP . Its application ● Active Databases andTriggers : Complete understanding ● Parallel operations for relational operations ● Basic concepts of Object model of ODMG ● Basic diferent database Data modelling – ER diagram ● Object Database Concepts, Object Model and ODL ● Distributed Database Concepts ● Temporal and Spatial databases ● Introduction to Data Warehouses ● introduction to NoSQL, framework used and its applications

		• introduction to NoSQL, framework used and its applications • Introduction to data mining, counting cooccurances ,Mining for rules • Tree-structured Rules in Data mining concepts • Information integration and their models
		Application Delivery Controller and Virtualization(18CS7G2) Online Course completion in Udemy / Infosys Springboot / etc., Sample Course titles,- Kubernetes Fundamentals, Developing Microservices using Springboot, Docker & Kubernetes, Developing Microservices using Springboot, Docker & Kubernetes Topic Implementation by one group: Title: "Comparison of Load Balancing Algorithms"
	Artificial Intelligence & Machine Learning(18CS62) · Advertisement Recommendation System Using KNN · AI Based Personalised Learning · AI Based Ship Detection System Using Satellite Imagery · AI-Based Military Aircraft Recognition System · AI-Based Personalized News Aggregator · Aircraft Detection System Using Deep Learning · Anomaly Detection In Bottles In A Manufacturing Unit · Business WhatsApp Chat Analysis Using NLP · Chatbot Using NLP	

	· Comparative Study Of Deep Learning Architectures For Active Learning On Satellite Imagery Dataset · Comparative Study of Different Machine Learning and Deep Learning Algorithms For Offensive-Language Detection. · Crop Yield Prediction Using Machine Learning · Deep Learning Model for Lip Reading to Improve Accessibility · Deepfake Video Detection · Detection Of Inherited Retinal Disease · Determining Potability of Water Using Machine Learning · Diet Recommendation System · Email Spam Detection Using Machine Learning · Fake News Detection Using Machine Learning Models · Flower Classification System Using LSTM · Generation Of Coloured Images Using Generative Adversarial Neural Networks · Instance Segmentation on Multi-Spectral Satellite Imagery · Intelligent Career Guidance Systems to Pursue Masters · Music Cluster Based Classification and Als Recommendation · Music Recommendation System · Neural Style Transfer Using VGG-19 · Object Detection Classification and Tracking Of Everyday Common Objects · Plant Leaf Disease Detection · Poem Generation Using Deep Learning · Predict/Determine the Architecture	

	Style of Monuments Using Deep Learning · Recipe Generation from Food Images · Recognition Of Epigraphical Records Using AI And ML Approaches · Satellite Imagery Based Crop Classification Using Artificial Intelligence · Text To Image Conversion Using Diffusion · Virtual Trial Room	
2021-22		
	Machine Learning(18CS6D1) Vegetable disease Classification - potato Customer Segmentation to aid major Business Decision making Performance Analysis of Automotive Engine Hourly Energy Demand Generation Artificial Neural Network Based Fault Prediction System Detection of grid fault location using machine learning Electric Faults detection and classification SMART GRID STABILITY Smart grid using ML Power Consumption Prediction PID controller tuning using Machine learning algorithm Dynamic Pricing of Movie Tickets based on Oscar Winner Prediction Real estate price prediction using machine learning Battery life prediction Machine Learning Approaches in Battery Management Systems in determining remaining useful life and faults Classification of mechanical components using CNN Smart CCTV Prediction of Mechanical properties of low alloy steels electric motor temperature prediction Credit Risk Analysis using Random Forest Predicting prices of airline tickets Design Optimisation for a Morphing Wing based on Flow Conditions	**SDN** Demonstrate firewall and statistics collection module in SDN framework. Demonstrate use of multiple controllers in SDN framework. Mininet and Open vSwitch demo

Artificial neural network based fault prediction system
Predict fuel efficiency
Prediction of Normal force coefficient for an arbitrary airfoil geometry
Image processing and AI for seperating nuts and bolts
Speed control of DC motor using ML
Fault detection in transmission line.
Inventory Management using Machine Learning
Energy Demand Prediction Using Machine Learning
Credit Card Fraud Detection using Machine Learning
Prediction of Wheat Prices using ML
Object detection for automation
Market basket optimisation using apriori

Computer Networks(18CS46)

Intrusion Detection System using Machine Lea
video conferencing tool
Wireless Network Security using Quantum cry
Data Leakage Detection
Network analytics
VLAN simulation using cisco packet tracer
Efficient and secure image and video processin
Private browsing tools-VPN
fast path forwarding
Creating a Incentivised Peer 2 Peer file shari enterprise applicatons
sign and verify signature using metamask
(block chain)
Network automation and router configuration u
Detection of parts of Saree and changing its co
Knowledge graph
Energy efficient algorithms in WSN
Human Face Emotion Recognition
Mask RCNN
Client Server Communication
Driver Drowsiness system

Operating Systems(18CS34)

Interprocess Communication in which processes should be able to communicate via first-in, first-out message box queues
Simulate or Emulate round-robin scheduling
Implement Virtual Memory - Page Allocator Page Fault Handler
Implement Virtual Memory - Page Fault Handler
Implementation of Not Recently Used Page Replacement Algorithm
Implementing FIFO with Second Chance paging policy
Implement standard UNIX file system calls - like int fs_mkfs (void); int fs_open (char *filename, int flags); int fs_close (int fd); int fs_lseek (int fd, int offset); int fs_link (char *oldpath, char *newpath); int fs_unlink (char *filename); Each command listed individual student can take up - 6 students
Implementation of A Simple Shell
Implement A Batch Process Monitor
Build a virtual machine monitor that can run multiple guests (for example, multiple instances of OS), using x86 VM support.
Add snapshots to a file system, so that a can look at the file system as it appeared various points in the past. Use some kind copy-on-write for disk storage to keep spa consumption down.
Build a distributed shared memory (DSM) system, so that you can run multi-threaded shared memory parallel

		programs on a cluster of machines, using paging to give the appearance of real shared memory. When a thread tries to access a page that's on another machine, the page fault will give the DSM system a chance to fetch the page over the network from whatever machine currently stores.
		Implement mmap() of files.
		Virtual memory management in PintOS
		Layer software RAID-5 over an array of disks, to increase fault tolerance and performance
		Thread management in PintOS
		Implement loadable kernel modules. For example, make the file system a kernel module so that you can add a kernel module to read DOS file systems, or replace the file system.
		Implement copy-on-write fork in Xv6
		ps, pstree, proc file system, and related commands to study the processes in system
		strace, free, top, htop, vmstate, /proc/pid/maps study
		debugging tools demonstration and documentation - example gcc, gdb, objdump, shell scripts
		Linux case study : design principles (21.2), kernel modules(21.3) - presentation in class
		Linux case study: process management(21.4), process scheduling (21.5) - presentation in class
		Linux case study: Memory management(21.6), Case study: FAT, NTFS and Ext filesystems
		Boot Loader
		https://www.cs.princeton.edu/courses/archive/fall16/cos318/projects/project1/p1.html
		In XV6 OS Observe the stack pointers, privilege level registers in user and OS modes 4. Modifying/profiling behaviour of exception handlers
		Observe process file table entries and file objects across parent and child processes
		Write a system call to allocate the same physical block to different virtual addresses
		Implement lazy allocation of physical memory to processes
		System call to print saved state of any process 4. Write a system call to induce page faults
		Design and implement a shared message queue between processes to be used via the system call interface

		Understanding features of modern filesystems -ZFS https://www.cse.iitb.ac.in/~mythili/teaching/cs347_autumn2016/labs/lab7.pdf
	ADVANCED ALGORITHMS (VI SEMESTER) ● Algorithm to help wildlife researchers accurately identify endangered Cook Inlet beluga whale individuals from photographic images. ● Algorithms optimization using Disjoint set and it's applications. ● Analysis of different consensus algorithms in Blockchain Technology ● Analysis on different Object Detection Algorithms ● Analyzing Machine Learning Algorithms for Text Classification on Court Data ● Portfolio Optimization ● Assignment problem using hungarian algorithm ● College Activity and Communication Application ● Page-Rank Algorithm Visualization ● College ebook site with Smart Search Solution ● Comparative study of ML algorithms ● Comparison of accuracy of machine learning algorithms ● Convex hull problem ● File compression system using Huffman coding ● Google Map visualization using python for Dijkstra's Algo, A* algo, and BFS ● image classification algorithm comparison ● Implementation of six degrees of separation (Bacon's Law) ● Machine Learning Algorithms for Depression Detection from text ● NDGA for image replication ● On campus assistance system ● Optimisation of KNN algorithm using Genetic Algorithm	Minor project developed details given below

	• Path Visualisor • Regex engine • Plagiarism detector • SIFT algorithm • Sudoku using backtracking • Timetable and Syllabus Report Management system for RVCE • Visualization of algorithms.	
		FCSD(18CS35) RFID based smart parking entry system Smart Display RFID based attendance system IoT based Automatic Pet Feeder Gesture sensor elevator system IoT based health monitoring system Smart Energy Meter- Electricity Pulse Oximeter using arduino Raspberry pi as low cost HD Surveillance Cam SYSTEM SECURITY USING IMAGE PROCESSI ECG monitoring Virtual Assistant for Visually impared (Smart glass and smart stick) Wireless Smart Locking System With ESP32-C Security Access using RFID Reader Mining tracking and working safety helmet Compact Pulse Oximetry Sensor Based on Ardu Smart Water Monitoring system
	2nd Sem-Mtech. DEEP LEARNING: 18MCE2D2 • Indian Currency Detection and Classification Using CNN • Object detection using Deep Learning. • Sentiment Analysis of Tweets using Reccurent Neural Networks • Skin Cancer Classification • Image Generation and Classification using GAN • Face Recognition using deep learning • Stock Market Prediction using LSTM model • Image caption generator using CNN and LSTM •	**PIC (II SEMESTER)** • Identification of E-waste in Garbage Pil • Determination of LPG leak using Arduir • Smart techonology for better aquatic lif • smart irrigation system using iot • Contactless doorbell and security syste • Smart Farming • automatic headlight movement in vehic • IoT using Raspberry pi • Determining air pollution level using ar • Colour detection using computer vision • Application of mathematics in traffic optimisation • Smart Weather Monitoring System

		• Smart Car Parking System • Soil health monitoring using arduino • Energy Harvesting from piezoelectric materials • Electric planes with lithium sulphur batteries • **Watet quality measurement system**
		Computer Graphics & Virtual Reality(18CS72) • Brick Breaker Game • Carnival(VR simple game) • clay shooting game using unity • gokarting vr game • House Tour with react 360 • Path marker Indoor Navigation • RVCE VR Tour • Sling shot game • Virtual Gallery • Virtual Keyboard • Virtual Tic Tac Toe Game • VR Air-Attack game • VR based R.V Museum Tour • VR Chef Experience • VR Data Visualization • VR Endless Running game • VR Escape room • VR Fruit Ninja and VR Shoot Games • VR GAME Pool • VR Hover Racer • VR Mall • VR map generation using WFC algorithm • VR MAZE GAME • VR Quiz • VR Sandbox Game • VR Shoot the Hoop (Basketball) • VR shooting game

		• VR Solar system • VR WFH Setup • VR whack a mole and VR Bowling Game • VR zombie and Ninja game
2020-21		
	Machine Learning(18CS6D1) prediction of global warming using machine lea Detection of Faulty Steel Plates using Machine Biosignature Detection In Exoplanets By Using Spectral Data Customer Market Segmentation using Unsuper PREDICTING FUEL EFFICIENCY demand forecasting of occupancy rate and prof Predicting the power output of combined cycle Fake News Detection using ML Building a Neural Network Library From S Recognise Handwritten Digits [Classification U Image captioning malaria detection Electrical Fault Prediction Lockdown effect of Pollution in India EDA and Machine learning in power system failure analy Prediction of stator winding temperature of per Hourly Energy Demand Forecast	Network operating System evolution The UNIX Operating System: Mature, Standardized and State-of-the-Art Basic Concepts of Real-Time Operating Systems
	PIC(II SEM) **Branch : Chemical Engineering** • CNC Machine using Arduino • IoT using Raspberry Pi • Automatic Solar Tracker • Gesture Based Robotics • Sensor Guided Robotics • Home Automation using IoT • Voice Controlled Robot • Smart Energy Projects • Mobile Robotics • Automated Railway Crossing	**Operating Systems(18CS34)** Holographic memory Support of OS -Data recovery Keyboard without keys and board Use Secure Protocols When Possible Managing Passwords Securing Interactive Management Sessions Managing Multiple Operating Systems: 5 Practices Network OS functionality Windows 8 For Small And Medium Businesses Distributed operating system task_struct : Data structure to describe proce LINUX Interprocess communications Sockets for communication. Ext2 file system Ext3 File system Journal file system Minix operating system An Operating System for the Home Nucleus RTOS Brocade Ironware oS Powers FortiOS 5 : Network Security OS Device drivers: support of OS

		What's New in VMware vSphere® 5.1 – Platform Linux: The Operating System of the Cloud
		Ppt presentation in class 10 marks
		FCSD(18CS35) ALU LOGISM Speed Racer, A car racing game with user inpu Obstacle avoiding car SOCIAL DISTANCE ALERT SYSTEM Police lights using 555 Timer and 4017 Decade Smart irrigation with IoT BCD CALCULATOR Distance measurement using ultrasonic sensor SIMULATION OF BCD ADDER AND CARRY LO Snake Game Analysis DIGITAL ROULETTE USING IC 4774 AND IC 4 Line Following Robot DETECTION OF COVID-19 FROM X-RAYS USI REMOTE CONTROLLED CAR OPERAT TECHNOLOGY) DIGITAL ROULETTE USING IC 4774 AND IC 4 SIMULATION OF BCD ADDER AND CARRY LO POLICE LIGHTS USING 555 TIMER IC AND CI Digital clock using decade counter VENDING MACHINE USING LOGIC GATES DIGITAL ROULETTE USING IC 4774 AND IC 4
		NPS(V SEMESTER) Group1- Exploring Crypto Tools Group2- Exploring Vulnerabilities in various protocols Group3- Exploring various hacking tools ● Exploring Encryption/Decryption Cryptogr ● SQL injection ● METASPLOIT-FRAMEWORK ● Phases of ethical hacking and tools involve ● Exploring various hacking tools ● Exploring various hacking tools ● Web vulnerability scanner using Acunetix ● Step by step analysis and demonstration o encryption and decryption (open source too ● Authentication using Key ● WEB VULNERABILITY SCANNING USING F ● Communication using SIP Protocol

		• Visual Cryptography tool and Algorithms • Top 10 OWASP vulnerabilities and tools to identify ther • Nmap - Hacking Tool • Simulation of SQL injection attack • Kali Linux • UDP FLOOD ATTACK • Vulnerabilities in Transport layer protocols • Exploring Burpsuite and it's implementation for traffic • Encrypt and decrypt using using bit locker • Penetration Testing • Cross-site scripting (XSS) • Crypto Tool • OWASP/IronWASP • Encryption and Decrytion in FTP • Network Scanning using Nmap • Security Tokens • Vulnerabilities in wifi protocols and wireless network a • Host Scan,Server Scan and Database Scan with variou • Wireless attack tools • Aircrack-ng Hacking Tool • Spoofing • Spoofing attacks • Vulnerabilities in TCP/UDP protocol • A group chat server for encrypted 1:1 and 1:N message • Exploring Crypto tools • Exploring phishing tools • SQL injection • Networking protocols and vulnerabilities • Network Hack • Hacking Web Applications • Encryption and decryption using PGP • Penetration testing • Communication using SIP protocol • John The Ripper • BGP security vulnerabilities • Distributed Denial of Service • Wi-Fi and networks hacking • Data leakage detection • A study into DoS attacks • Crptography tools • Exploring various hacking tools

		• Metasploit • Encryption & Decryption Using Deffie Hellman Algorith • Exploring maltego tool
	Object Oriented Programming Using Java(18CS45) • Abstract Art Generator • Automatic Question Paper Generator • Blood Bank and Donor management • Car Review Application • Chess game using javafx • College management app • College management System • College Query Portal • COVID essential products e-commerce application • Covid-19 bed booking platform • Covid19 Dashboard • creating a snake game with javafx • Flappy bird game • Game development • Hospital accounts management system • Hotel management • Inventory system • Mastermind: A logical game • Media player • Medicine Store for Emergency • Monthly Expenditure Tracking System • Movie Ticket Booking Platform with JavaFX • Multithreaded Download Manager • Music player using JavaFx • Online banking System • Online Inventory System • PDF Utilities • room booking Application • School Management System	**Computer Graphics(16CS73)** • 3D Aeroplane • 3D Modeling System • A CUSTOM RENDERER, FROM SCRATCH • Archery Game • Ball game • Bounce ball game • Breakout Game • Bricks Breaker Ball Game • BRICKS BREAKER QUEST • Car Obstacle Game 2D • Design of an Office room • Fractal Tree using OpenGL • Game Portal • Helicopter Game • Infinite Floating Rings • Insertion Sort Simulation • Interactive Ship Shooter • Jumping Car Game • Jungle Maze Game • PAC MAN game • Pathfinding game • Rocket Launching simulation • Simulation of Steam Engine • Sinking Ship • SNAKE AND LADDER • Tower of Hanoi Problem • Types of pollution and its effects on human body

	• Secret messaging app • Sudoku game application • To do List • Weather prediction using ML in Java • Whiteboard Simulation • Agriculture management system • Algorithm Simulation and Visualization • asteroids - arcade game • 'Blitz News' - A news app • Chess Game • Colour Switch Game • covid analytics • Covid-19 bed booking and reservation software • Cryptocurrency Arbitrage Analyser • Electroinc Appliances Inventory • Facial Detection • Farm equipment rental system • Formulae app • Image Editor • Javafx chess game • Machine learning Workflow with GUI • Management of homeless and their jobs in shelters • Maze game • Media player using Java Fx • Medical store management app • Monthly expenditure book • Neural Networks Implementation • online quiz application using javafx • Resume Builder • Shortest Path Finding Visualiser • Stadium seat booking system • SUDOKU Game using JavaFx	

	• SUDOKU using JavaFx • Tetris Game • Text editor • Two player Pong Game • Voice attendance system • Weather Dashboard • Web Browser	
2019-20		
	Programming in C(18CS23) Dynamic Trafic Light Contro System CONTROL OF SERVO MOTOR BLUETOOTH MOBILEAPP Design of Shafts Path Finder using Aurdino IC ENGINE PARAMETERS Collision Detection System Using Aurdino Mechnical Formula Calculator LASER DETECTION PROGRAM USING C Air quality measurement and pollution Automatic Lawn Mover. Design Of Cotter Joint MECHANICAL FORMULA'S CALCULATOR Scientific Calculator Ultrasonic range meter using Arduino ar components Dynamic Trafic Light Contro System CONTROL OF SERVO MOTOR BLUETOOTH MOBILEAPP Design of Shafts	**Operating Systems(18CS34)** NPTEL MooC Course HPE partial delivery test Android Operating System Case study Embedded Operating Systems latest 5 operating systems Operating system security Minix operating system - change scheduling al system Debugging XV6 OS Animations for OS scheduling Distributed Synchronization Distributed filesystem Real-Time Systems Operating system security
		Computer Graphics(16CS73) • 3D Chess Game • Simple 2D Ball Game • Animated 3D 4-legged Creature • Lights out game using OpenGL • Phong Lighting Model • Flappy Bird Game on Android • Simulation of Train Arrival and Departure at Railway Station • Traffic Signal Simulation

		• Different Viewing of Car Parking System • Windmill Simulation • Animation of Sample Village Scene • Catch Me If you can -Game • To Draw Bargraph • Rubix Cube • Insertion Sort implementation • Snake Game • Solar System • 3D Car Animation • Bus Stop Simulation • Biker Simulation • Snake Game • 3D Car Racing Game • Tetris Game • Tic-Tac Game • Transfomations of Object (Cone) on a Table • Sudoka Game • Breakout Game
2018-19		
	16CS6D2 Data Warehousing & Data mining Sketch Recognition System Handling data imbalance in large datasets Multivarieate Tiem Series Forecasting with LST Stock Predition using Twitter data Handling data imbalance using soft computing Towards Bayesian Deep Learning: Aframewor methods A survey on techniques to handle data imbalar	**Operating Systems(16CS45)** Network operating System evolution The UNIX Operating System: Mature, Standar the-Art Basic Concepts of Real-Time Operating System The Role of the Operating System in Cloud Env Making the Case for Windows 8.1 Operating system performance evaluation Memory management techniques 2013 Cloud operating system Windows Operating System case study Linux operating system case study Android Operating System Case study Any five recent operating systems Mapping Security for your Virtual Environmen Citrix Virtual Desktops: Virtual Desktops Th Case Enhancing Application Performance on Multicc Real-Time Secure Operating System

		Partitioning Operating Systems Versus Process-based Op Systems
	CCN (V SEMESTER) **CCN (V SEMESTER)** • Polar (NRZ-L, NRZ-I, Manchester and Differential Manchester) line coding. • Bipolar (AMI and Pseudo ternary) line coding • Multilevel (2B1Q, 8B6T , 4D-PAM5) line coding • parity check 2-Dimensional and 1 dimensional • Hamming codes • CRC and Checksum • Modulation (ASK, FSK, BPSK, QPSK, QAM,)	**ADVANCES IN ALGORITHMS (PG)** • Bloom Filters and applications in Netwo • Deterministic Algorithms and randomiz • Matchings in bipartite graphs, Hall's th • Linear Programming and Duality • The multiplicative weights method: a m applications • Introduction to solution of LPs: The Elli • Approximation Algorithms using Linear • Approximation Algorithms based on Ser
	Advanced Data Structures and Algorithms 22MCE12TL You are given the integer array and you have each element in the array. This problem can be force approach by using the loop and increase t its frequency increases. But using this approac be O(N2) and space complexity will be O(1) for not optimal. Think of an appropriate data str problem A library has its books organized primarily a represented by the two digit codes 01, 02, 0 according to the first two letters of the first au Az, Ba, ..., Zz. Use Radix Sort to sort the set o 09 Fa, 16 Mo, 16 Fa, 07 Ce, 13 Fa, 09 Mo, 07 of the book list and what is being done at each You are given the integer array and you have each element in the array. This problem can be force approach by using the loop and increase t its frequency increases. But using this approac be O(N2) and space complexity will be O(1) for not optimal. Think of an appropriate data str problem ement Randomized Quicksort and analyse the t In linear probing technique, collision is resolve the hash table until an empty location is found 23, 5 and 15 are inserted into an initially emp	Natural Language Processing (Professional Elective-C2) 22MCE2C2 1. NLP certification course in Udemy

	using open addressing with hash function h(k) = k mod 10 and linear probing. What is the resultant hash table?		
	Machine Learning (18 MCS 2C2) Using Open source tools(R/Weka/Octave/Scikit) design and execute for a given large dataset ● Demonstrate the working of Logistic Regression, Linear Discriminant Analysis, Quadratic Discriminant Analysis, and K Nearest Neighbors. ● Demonstrate the working of Decision Trees: Fitting Classification and Regression Trees, Bagging and Random Forests, Boosting. ● Demonstrate the working of Support Vector Machines: Support Vector Classifier, ROC Curves, SVM with Multiple Classes. ● Demonstrate the working of Principal Components Analysis ● Demonstrate the working of Clustering: K-Means and Hierarchical Clustering ●	**Computer Graphics (12CS72)** ● Write OpenGL program to generate a circle, ellipse, parabola, hyperbola using Bresenham's , Midpoint circle drawing. User can specify inputs through mouse. ● Write a program to create a cone and Poly spiral. Allow the user to specify using keyboard/mouse. ● Design and model a program to generate lines using three line drawing algorithm Bresenham's, DDA and Incremental method compare the algorithms ,Considering slopes greater than one and slopes less than one. User can specify inputs through mouse only. ● Write a program to create a house like figure and perform transformation like Translation, rotation and reflect it about an axis defined by y=mx+c using OpenGL use mouse for inputs. ● Write a program to demonstrate boundary-fill and flood-fill algorithms for any polygon use Mouse interaction. ● Design and model a program to demonstrate bouncing ball effects incorporate gravity and elastic collision use mouse or Key board interaction ● Design and model a program to demonstrate the animation of a wheel having 4 colors at each semicircle and it should rotate from left to right of the window. ● Design and model a program to demonstrate the animation of a concentric circle one inside the other it should rotate from left to right of the window as keyboard arrow keys are used. ● Design and model a program to demonstrate a scene containing a house and two mountains behind the house, color the mountains in Green and house with different colors provide optins for coloring using Menu options.	

		• Design and model a program to demonstrate a scene containing two mountains animate the sun rise and sun set using Keyboard arrow keys. • Design and model a program to demonstrate a scene containing tri color Indian Flag animate the waving of the flag using mouse operation. • Design and model a program to demonstrate a scene containing a house and two mountains behind the house, color the mountains in Green and house with different colors specify the menu option to change the color of the house. • Design and model a program to demonstrate a face like structure using display list and animate the movements of the eyes. • Design and model a program to demonstrate a scene containing circle inside the square box with different colors rotate the box and show motion use Keyboard operations (up, down, top bottom) • Write a program to implement the Cohen-Hodgeman polygon clipping algorithm. Make provision to specify the input polygon and clipping window to be a pentagon. • Design and model a program to demonstrate a scene containing circle inside triangle with different colors rotate the triangle and show motion use mouse click operations (up, down, top bottom) • Write a program to implement the Cohen-Hodgeman polygon clipping algorithm. Make provision to specify the input polygon and clipping window to be a circle. • Write a program to implement the Liang-Barsky line clipping algorithm. Make provision to specify the input for multiple lines, pentagonal clipping window and viewport for displaying the clipped image. • Design and model a program to demonstrate a scene containing circle with blue in color placed on the Cube

		demonstrate a 3D view as mouse is clicked. ● Design and model a program to demonstrate a scene containing circle with blue in color placed on the Cylinder demonstrate a 3D view as mouse is clicked. ● Design and model a program to demonstrate a scene containing Cube with red color placed on the floor/mat with different color demonstrate a 3D view as mouse is clicked. ● Design and model a program to demonstrate all type of projects of a cube as mouse is clicked. ● Design and model a program to demonstrate shear and reflection in all the three directions on a cube use menu options to specify the axis. ● Write OpenGL program to generate a circle, ellipse, parabola, hyperbola using Bresenham's , Midpoint circle drawing. User can specify inputs through mouse. ● Design and model a program to demonstrate a scene containing Prism with different colors at the vertex placed on the floor/mat demonstrate a 3D view as mouse is clicked. ● Design and model a program to demonstrate a scene containing Prism with different colors at the vertex placed on the floor/mat demonstrate a 3D view as mouse is clicked. ● Write a program to create a house like figure and perform transformation like Translation, rotation and reflect it about an axis defined by y=mx+c using OpenGL use mouse for inputs. ● Write a program to demonstrate boundary-fill and flood-fill algorithms for any polygon use Mouse interaction. ● Design and model a program to demonstrate bouncing ball effects incorporate gravity and elastic collision use mouse or Key board interaction ● Design and model a program to demonstrate the animation of a wheel having 8 colors for each octant of the

		circle and it should rotate from left to right of the window with mouse click. • Design and model a program to demonstrate the animation of a concentric circle one inside the other should rotate from left to right and top to bottom of the window. • Design and model a program to demonstrate a scene containing structure of a bi cycle and show the motion using the key board keys. • Design and model a program to demonstrate a scene containing two mountains animate the sun rise and sun set using Keyboard. • Design and model a program to demonstrate a scene containing tri color Indian Flag animate the waving of the flag using mouse operation. • Design and model a program to demonstrate a scene containing a house and two mountains behind the house, color the mountains in Green and house with different colors and change the color of the house using Menus. • Design and model a program to demonstrate a face like structure using display list and animate the movements of the eyes. • Design and model a program to demonstrate a scene containing circle inside the square box with different colors rotate the box and show motion use Keyboard operations (up, down, top bottom)

4. Benefits of Experiential Learning with respect to your department:

In this section, the report outlines the numerous benefits of experiential learning for students, educators, and institutions. It discusses how experiential learning enhances student engagement, fosters critical thinking and problem-solving skills, and prepares students for real-world challenges.

5. Challenges in Implementing Experiential Learning with respect to your department:

Here, the report identifies common challenges and barriers to implementing experiential learning initiatives. It addresses issues such as resource constraints,

logistical challenges, and resistance to change, and offers strategies for overcoming these obstacles.

6. Case Studies and Examples:

This section presents real-world case studies and examples of successful experiential learning programs. It highlights innovative approaches and best practices used by institutions to integrate experiential learning into their curriculum and shares insights gained from these experiences. Include the photos of events in case studies if any.

Each semester put two best case studies (i.e. any one EL/PBL)

2023-24
Case Study – 1 (Complete Process report with Evaluation rubrics)

"Diet Monitoring for Nutrient Tracking"

EXPERIENTIAL LEARNING REPORT

WEB TECHNOLOGY (18IS6D1)

VI SEMESTER

2022-23

Submitted by

ARYA ADESH **1RV20CS029**

CHIRAYU S SHEELVANT **1RV20CS044**

Under the Guidance of Manonmani S

Diet monitoring and nutrient tracking applications can be used by a wide range of individuals. It can be used by people who are looking to lose weight or manage and treat a chronic health condition such as high blood pressure, diabetes. It can also be used by athletes and fitness coaches and enthusiasts who are looking to improve their physique and perform well in their fields. These apps provide valuable information and insights into the user's eating habits and nutrient intake, helping to identify the deficiencies in his or her diet and suggest a healthy and a balanced lifestyle for a healthy lifestyle. These apps will also provide the recipes of various

foods consumed and also the nutrient content of different foods and suggest healthier alternatives.

Immunity has become a priority in the post-pandemic world. Immunity is directly related to nutrients in the food consumed. According to medical studies, almost 30% of the world's population suffers from a lack of macronutrients in their diet. Hence, it is important to keep track of nutrient intake and decide if the requirements are met. This app helps every user to monitor their diet and prevent deficiency diseases that cause degradation of life. A nation survey of 2021 showed that almost 85% of Indians are unaware of the daily nutrient requirements. This application strives to mitigate that problem and educate users on the importance of diet in a healthy lifestyle.

Diet monitoring and nutrient tracking applications have become increasing popular in recent years, as more people are understanding the importance and health and maintain a healthy and balanced diet. According to a news article, children between 1 to 4 years have Vitamin D deficiency, Iron deficiency, Zinc deficiency and children between 5 to 9 years suffer from acute malnutrition in both urban and rural areas. It is essential for a user to intake the appropriate amount of nutrients for a healthy lifestyle. An application is required which monitors the nutrient intake of the user and gives information to the user if the user has consumed more or less than the threshold amount for a particular nutrient.

A diet monitoring app has a wide range of potential applications. Individuals can use the app to track their daily food intake, monitor their calorie and nutrient intake, and set goals to meet their specific dietary needs. People with chronic conditions such as diabetes, heart disease, and others can use the app to monitor their food intake and adjust it to meet specific dietary needs. Athletes and fitness enthusiasts can use the app to track their nutrient and calorie intake and ensure they meet their specific performance goals. Users can use the app to plan their meals, create shopping lists, and get recipe suggestions. The app can allow users to log food and ingredients, including information about portion sizes, and analyze the nutritional value of their diet.

Methodology

The following flowchart Fig 1 explains the methodology involved in the functioning of the web application.

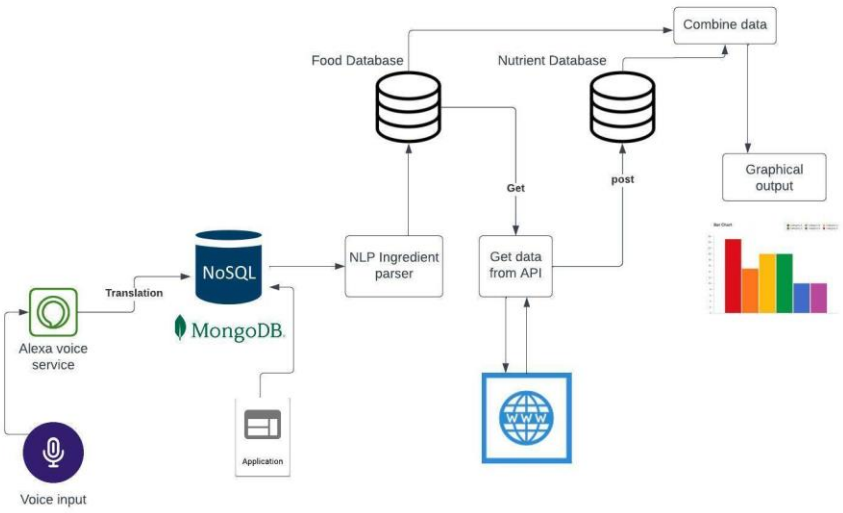


Fig 1 Working of Diet Monitoring for Nutrient Tracking website

Thus, a diet monitoring website was designed where the user will be allowed to give input to the website in the form of speech using Alexa. The following webpage was designed:

Introduction Page

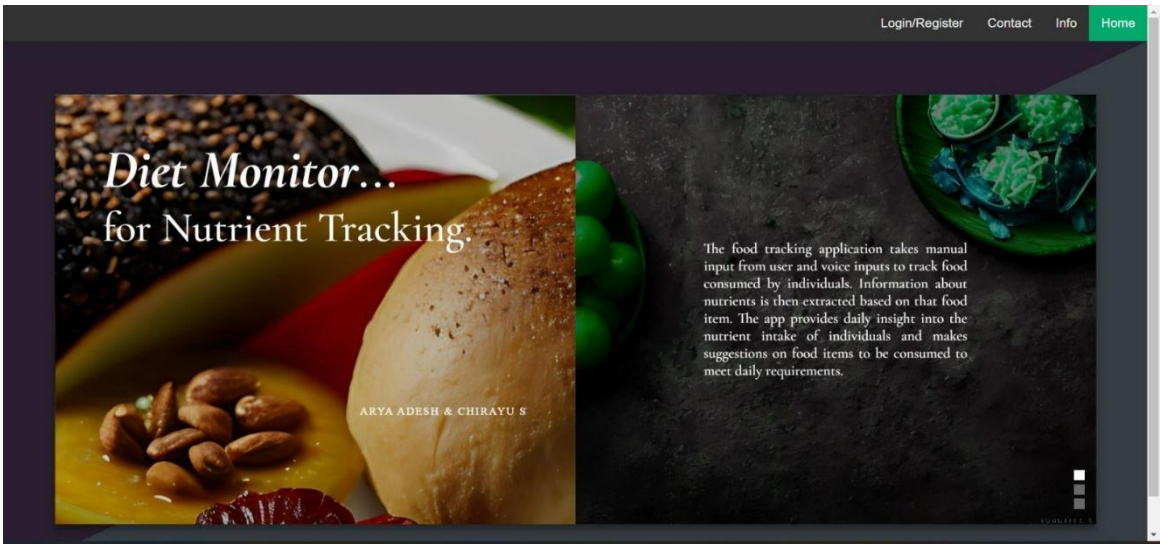


Fig 2

Fig 2 shows the introduction page where AI generated images are included giving information about the importance of diet monitoring. It has login button which will be directed to Login page.

Login Page

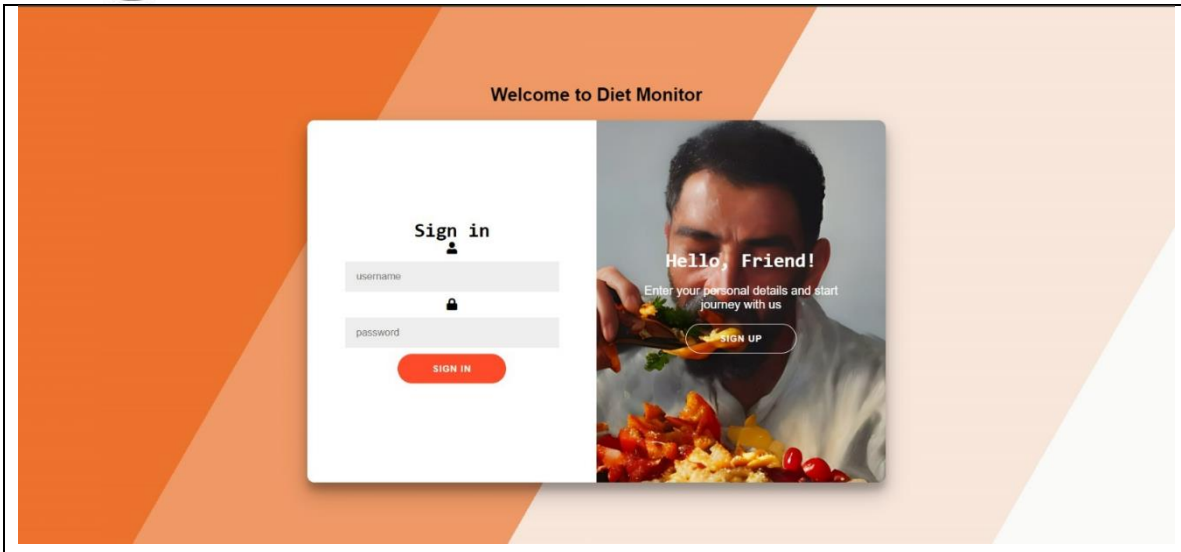


Fig 3

Fig 3 shows the login page which consists of two options – Sign In for already registered users where they enter their username and password to log in and Sign Up for new users where they register using their name and create a password of their own for future use.

Dashboard

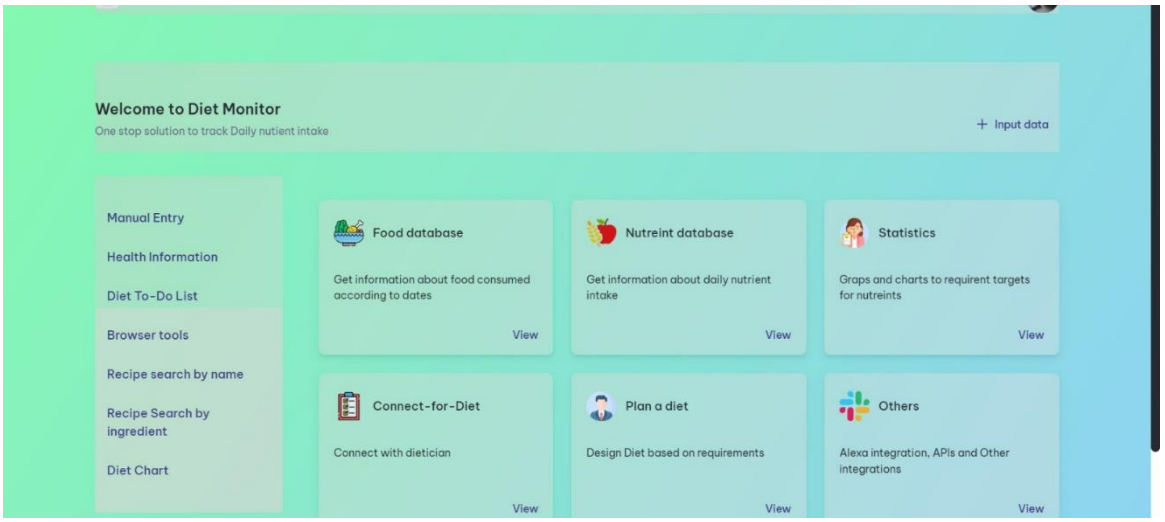


Fig 4

Fig 4 shows the dashboard of the application where there are options provided for various actions like food database, manual entry, etc. These will be directed to various pages based on the options selected.

Timeline

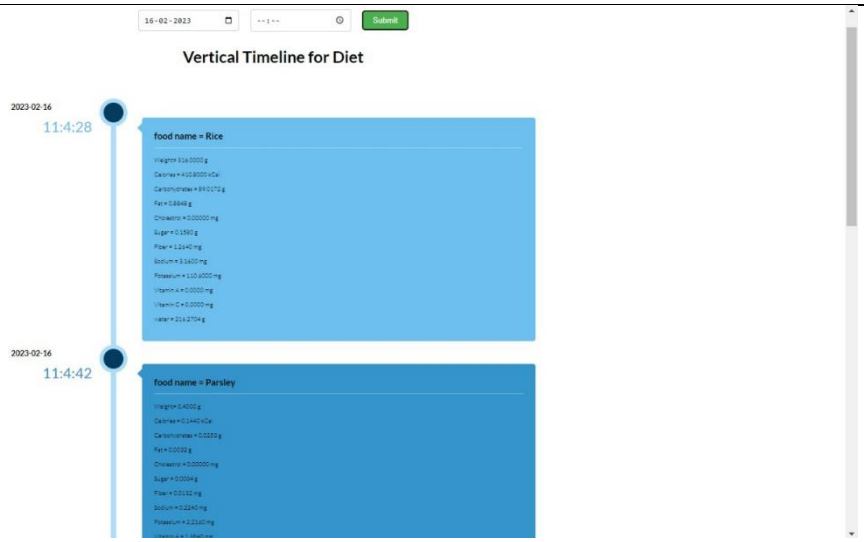


Fig 5

Fig 5 shows the timeline of the food items consumed. The user can select a date and based on that food consumed, the nutrients contents and the time at which it was consumed will be displayed.

To do list

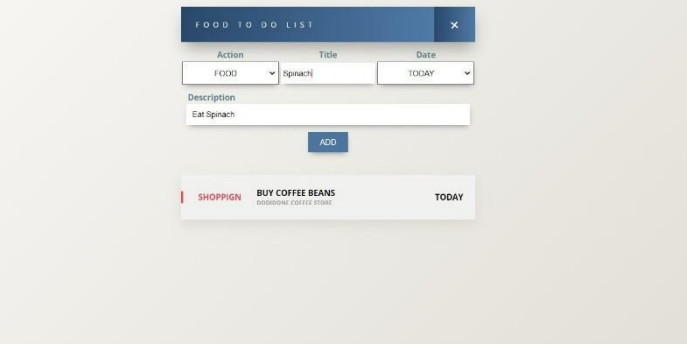


Fig 6

Fig 6 shows the to do list where the user can enter what he or she wants to do in a particular day.

Card Display

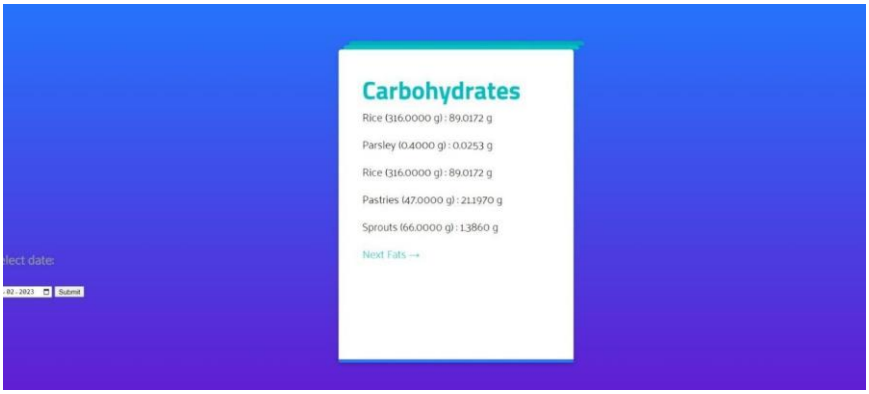


Fig 7

Fig 7 shows the display of the different nutrients split into food items. The user can select a date and the nutrients consumed on the that day will be displayed with food the contains that nutrient. The user can click on next to go to the next nutrient.

Nutrient Table

Food item	Weight(g)	Calories	Fat (g)	Carbs (g)	Protein (g)	Iron (%)	K	Fiber	Sugar	Chol(mg)	Vitamin A(mg)	Vitamin C(mg)
Lamb	754.5425	1401.6191	95.1746	71.7001	64.9416	11.8434	2000.3281	17.6250	17.5189	205.81810	294.3453	45.6514
Lamb	754.5425	1401.6191	95.1746	71.7001	64.9416	11.8434	2000.3281	17.6250	17.5189	205.81810	294.3453	45.6514
Milk	2320.4873	1415.4973	75.4158	111.3834	73.0954	0.6961	3063.0432	0.0000	117.1846	232.04870	1067.4242	0.0000
Mutton	100.0000	264.0000	21.4500	0.0000	16.5800	1.5000	230.0000	0.0000	0.0000	72.00000	0.0000	0.0000
Pastries	47.0000	258.9700	17.9070	21.1970	3.4310	1.2032	28.6700	0.7050	0.3478	0.00000	0.0000	0.0000
Milk	488.0000	297.6800	15.8600	23.4240	15.3720	0.1464	644.1600	0.0000	24.6440	48.80000	224.4800	0.0000
Milk	488.0000	297.6800	15.8600	23.4240	15.3720	0.1464	644.1600	0.0000	24.6440	48.80000	224.4800	0.0000
Bread	384.0000	1025.2800	12.4416	186.9312	41.1648	13.4016	679.6800	15.3600	22.6944	0.00000	0.0000	0.7680
Bread	384.0000	1025.2800	12.4416	186.9312	41.1648	13.4016	679.6800	15.3600	22.6944	0.00000	0.0000	0.7680
Bread	384.0000	1025.2800	12.4416	186.9312	41.1648	13.4016	679.6800	15.3600	22.6944	0.00000	0.0000	0.7680
Rice	223.4953	305.6800	10.5540	41.6022	10.3595	1.6932	321.9277	2.3021	3.5435	34.77980	101.2948	16.1959
Rice	223.4953	305.6800	10.5540	41.6022	10.3595	1.6932	321.9277	2.3021	3.5435	34.77980	101.2948	16.1959
Chicken	100.0000	160.6717	9.7140	5.8666	12.0961	0.8614	215.9597	0.7940	1.7335	46.27090	44.4498	6.8950
Fish	135.0000	174.8462	9.4258	9.2799	13.0859	0.9829	353.0976	1.4005	2.4013	40.01680	55.9944	15.2183
Sprouts	453.5924	104.3262	3.1298	9.5254	18.0983	4.3545	358.3380	8.6183	0.9072	0.00000	36.2874	37.1946

Fig 8

Fig 8 shows the food item consumed by the user and nutrient content of that food item. The user can sort the food items based on each nutrient and also can decide how many records to view. This is used by the dietician.

FAQs

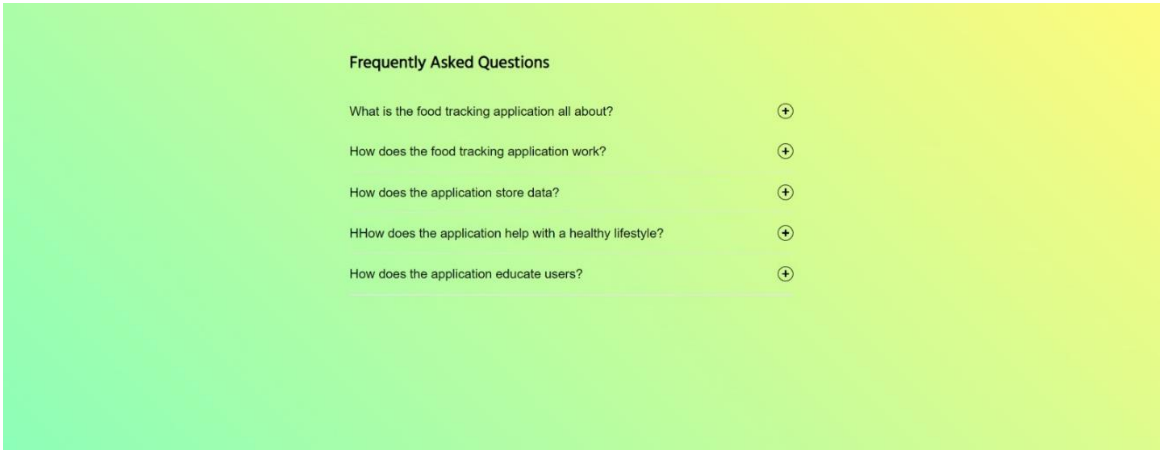


Fig 9

Fig 9 shows the Frequently Asked Questions (FAQs). By clicking on + the users will get the answers.

Dietician Details

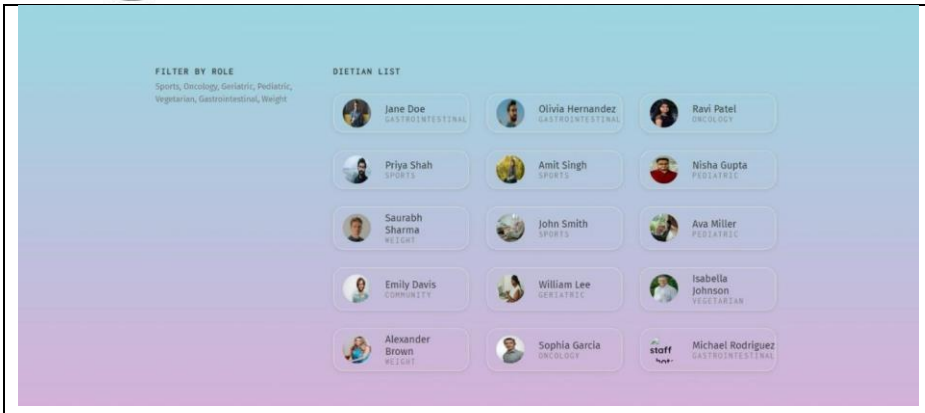


Fig 10

Fig 10 shows the different dieticians available and also their expertise is displayed. The users can filter the dieticians on their expertise and can communicate with them.

Another view of Dietician

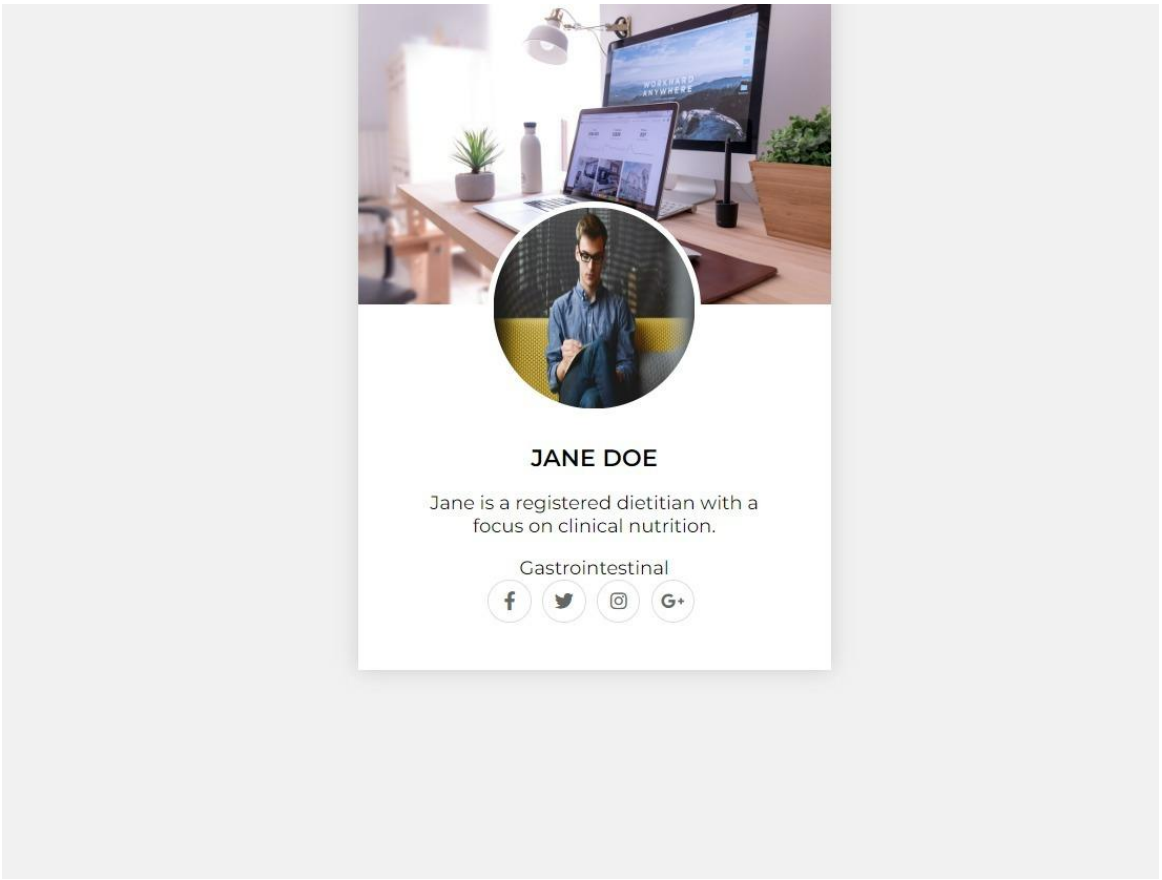


Fig 11

Fig 11 shows the dieticians and their profiles. This is one more view of the dietician details.

Visual Representation

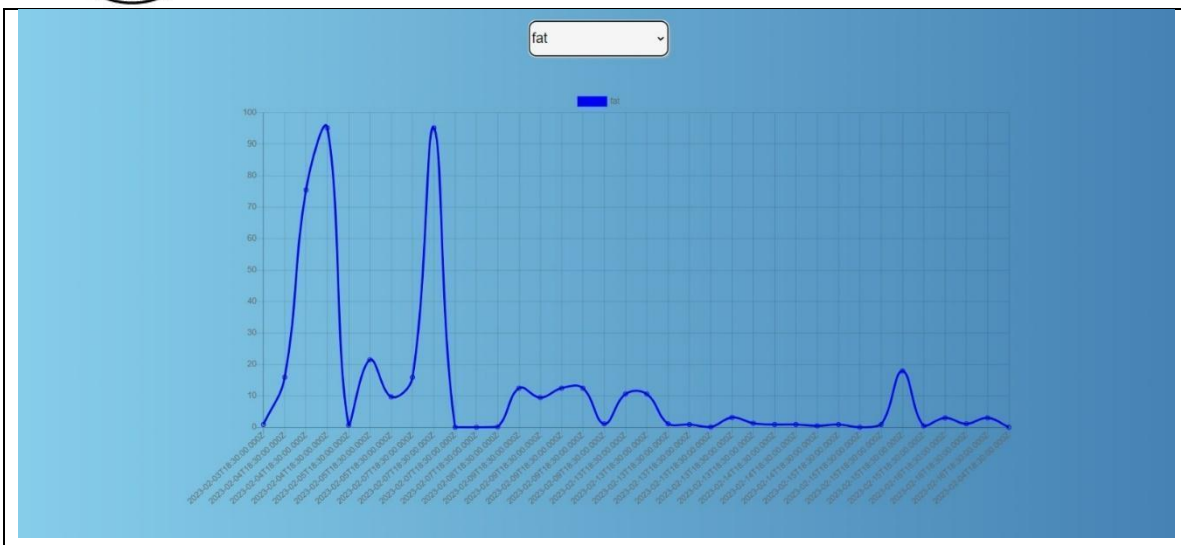


Fig 5.12

Fig 5.12 shows the graph representing the amount of nutrient consumed based on time of consumption. The user can select the nutrient using the drop down box.

Case Study – 2 (Complete Process report with Evaluation rubrics)

Evaluation rubrics

Rubrics for Advanced Data Structures and Algorithms

Assignment

RUBRIC for the Experiential Learning (30 marks)							
Sl. No.	**Assignment (Meets Criteria)**	**COs**	**Marks**	**Excellent**	**Good**	**Average**	**Scope for Improvement**
1.	**Description of algorithm /application**	**CO1**	**7**	Exceptionally well-presented details of algorithm with explanations, figures and facts.	Well-presented and argued. Algorithm partially explained.	Student provides average presentation but not well supported with justification.	No sound content

				(7-6)	(5-4)	(3-2)	(1)	
2.	**Example or Application of the algorithm and Complexity Analysis**	**CO2**	**7**	Clearly explained an application of algorithm with figures, examples and description. Complexity analyzed with reasoning	Application defined but not explained clearly. Complexity analyzed without proper reasoning	The Application is poorly identified and needs to be revised more accurately. Complexity not analyzed	No Application or example. Student does not analyze the complexity analyzed	
3.	**Implementation**	**CO3**	**8**	**(7-6)** Student demonstrates the execution of the program with optimized code and shows performance efficiency.	**(5-4)** Student demonstrates the execution of the program without optimization of the code and shows performance efficiency with only	**(3-2)** Student demonstrates execution of program and does not show performance efficiency.	**(1)** Student has not executed the program.	

					few test cases.		
				(8-7)	**(6-5)**	**(4-3)**	**(2-1)**
RUBRIC for the Experiential Learning (Phase 2)							
4.	**Report Format and Presentation Skill**	CO4	**8**	Clear, effective presentation and well organized documentation and presentation skill is Excellent	Generally effective presentation with some difficulty in explaining key points and neat report and presentation skill is Good	Poor presentation and moderate report and presentation skill is Average	Poor presentation, difficult to follow and understand and randomly organized report and need to improve the presentation skills
				(8-7)	**(6-5)**	**(4-3)**	**(2-1)**

EXPERIENTIAL LEARNING REPORT

2023-24

Name: Bindu Priya R

Class: 1st Sem MCE

Admission number: RVCE23MCE018

Subject: Advanced Data Structures and Algorithms

ASSIGNMENT

5 In linear probing technique, collision is resolved by searching linearly in the h table until an empty location is found. The keys 12, 18, 13, 2, 3, 23, 5 and 15 inserted into an initially empty hash table of length 10 using open addressing h hash function h(k) = k mod 10 and linear probing. What is the resultant hash le?

Solution:

1. Definition:

Linear Probing:

Linear probing is a collision resolution technique used in hash tables. When a collision occurs (i.e., two keys hash to the same index), linear probing resolves it by searching linearly through the hash table until an empty slot is found. The keys are then inserted into the first available empty slot.

Linear probing is a method for resolving collisions in a hash table by sequentially examining the table for the next available slot following a collision. It operates by incrementally probing neighbouring slots until an empty slot is found, allowing the insertion of the colliding key. This approach simplifies collision resolution but can lead to clustering, where consecutive elements are densely packed in the hash table.

Direct Chaining:

Direct chaining, also known as open hashing, is another collision resolution technique employed in hash tables. In this approach, each slot in the hash table holds a pointer to a data structure, such as a linked list or array. When a collision occurs, the colliding keys are stored in the corresponding slot's data structure.

Direct chaining is a collision resolution strategy in hash tables where each slot of the hash table maintains a data structure, such as a linked list or array, to store keys that hash to the same index. When a collision occurs, the colliding keys are appended to the data structure at the corresponding index. This method effectively handles collisions and allows for efficient storage and retrieval of keys with minimal clustering.

2. Important terms to understand:

- **Introduction to Hash Tables**

A hash table is a data structure used for implementing dictionaries which support dictionary operations such as INSERT, SEARCH and DELETE. Such a data structure stored data in key-value pairs where each key is associated with a particular value.

A typical application is in the compiler symbol table used during compilation. Here the keys correspond to the identifiers (variables) used in the program which has corresponding values. In the worst case, searching for an element in a has table has the same performance as searching for an element in a linked list which is $\Theta(n)$. However, hash tables can achieve a constant time O(n) search performance on the average.

- **Array vs Hash Tables**

A hash table generalizes the notion of arrays where the elements can be accessed using the index of the particular element. This is exactly the case when the number of keys to store is the same as the number of positions available. In hash table however, there may be times when the total number of keys is more than the number of positions available in the table.

So, in the case of hash tables, unlike arrays, instead of using the key directly, the key is passed into a hash function which computes the index where the key is to be stored. The challenge with this is that sometimes, different keys passed to the same hash function may produce the same index (location). This is what is known as **collision**. As we would examine later, collision can be handles by **chaining**. Another way to deal with collisions is called open addressing.

- **Direct Address Tables**

Direct addressing is a technique that works well in situation where the universe of possible keys is fairly small. Assuming an application requires a dynamic set in which each element to be stored has a key taken from the universe: U = {0, 1, . . . , m-1} where m is not too large.

We also assume that no two elements would have the same key. To represent a dynamic set that meets these properties, w can use an array (which is also called direct-address table) represented as T[0. 1, ... m}.

Here each position or slot in the table T, corresponds to a key in the universe U. This is shown in Figure 1.0

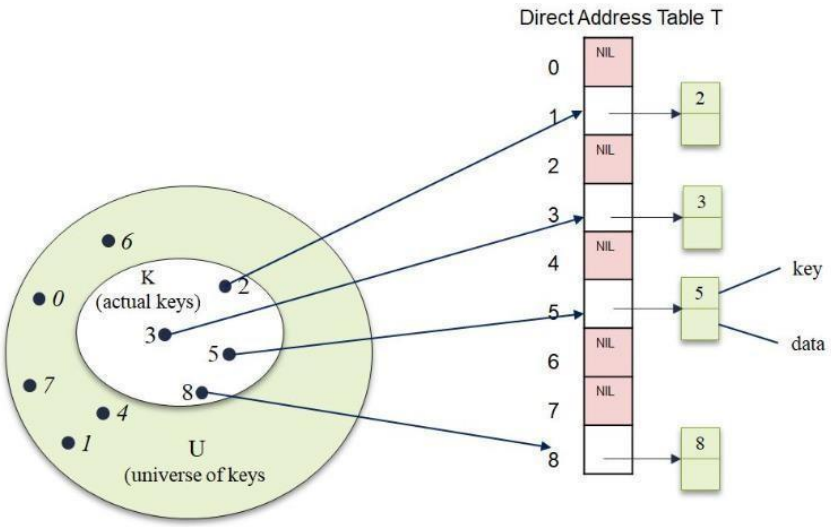


Figure 1.0: Implementation of a dynamic set using the direct address table T. Each key in the universal set U = {0, 1, . . . 8} correspond to an index in the direct address table. The set

K = {2, 3, 5, 8} is the set of actual keys stored in the table and determines the slots of positions in the table that contains pointer to the data. The other slots are empty (contains NIL)

In Figure 1.0, we notice that the direct address table stores elements in external object (represent in light green key-data pair), with a pointer to the object. However, in some application, the elements can actually be stored in the table itself instead of on an external object.

Direct-address table operation is given below all of which takes O (1) time.

SEARCH (**T**, k)

```
return T[k]
```

INSERT (**T**, x)

```
T[x.key] = x
```

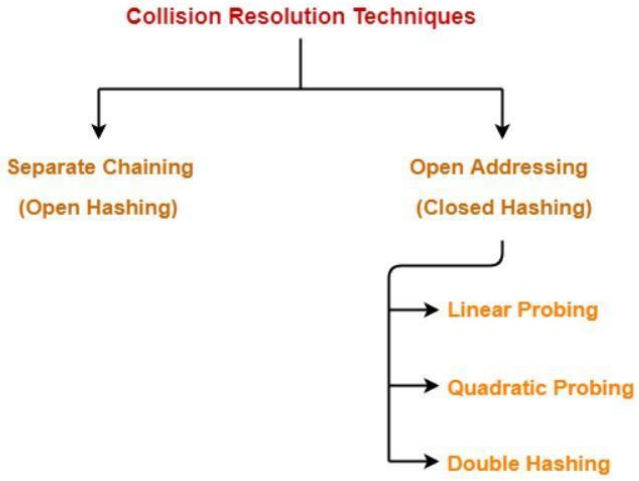
DELETE (**T**, x)

```
T[x.key] = NIL
```

- **Collision in Hashing**

In this, the hash function is used to find the index of the array. The hash value is used to create an index for the key in the hash table. The hash function may return the same hash value for two or more keys. When two or more keys have the same hash value, a collision happens. To handle this collision, we use collision resolution techniques.

Collision Resolution Techniques



There are two types of collision resolution techniques.

- Separate chaining (open hashing)
- Open addressing (closed hashing)

Separate chaining: This method involves making a linked list out of the slot where the collision happened, then adding the new key to the list. Separate chaining is the term used to describe how this connected list of slots resembles a chain. It is more frequently utilized when we are unsure of the number of keys to add or remove.

Time complexity

- Its worst-case complexity for searching is O(n).
- Its worst-case complexity for deletion is O(n).

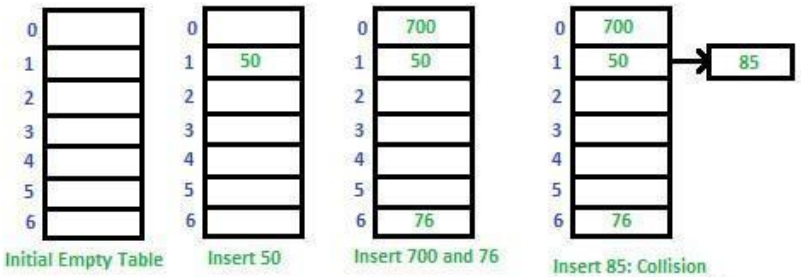
Advantages of separate chaining

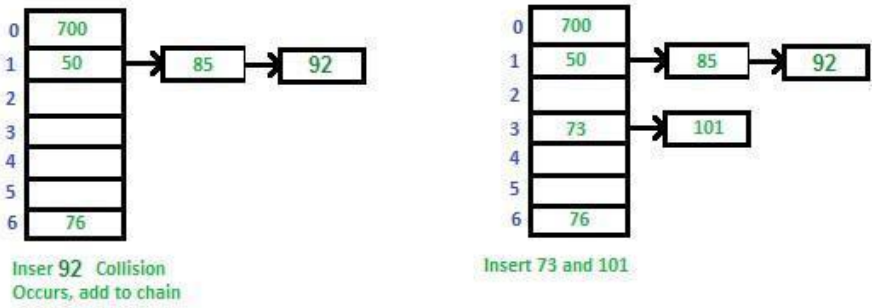
- It is easy to implement.
- The hash table never fills full, so we can add more elements to the chain. ➢ It is less sensitive to the function of the hashing.

Disadvantages of separate chaining

- In this, the cache performance of chaining is not good.
- Memory wastage is too much in this method.
- It requires more space for element links.

Example 1: Let us consider a simple hash function as "**key mod 7**" and a sequence of keys as 50, 700, 76, 85, 92, 73, 101

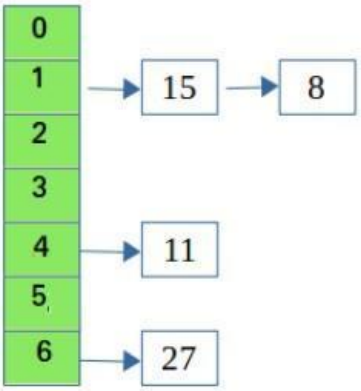




Example 2:

Let's say hash table with 7 buckets (0, 1, 2, 3, 4, 5, 6)

Keys arrive in the Order (15, 11 , 27 , 8)



Performance of Chaining:

Performance of hashing can be evaluated under the assumption that each key is equally likely to be hashed to any slot of the table (simple uniform hashing).
m. = Number of slots in hash table
m. = Number of keys to be inserted in hash table
Load factor α = n/m
Expected time to search = O (1 + α)
Expected time to delete = O (1 + α)
Time to insert = O (1)
Time complexity of search insert and delete is O (1) if α is O (1)

Data Structures for Storing Chains:

1. **Linked lists**
   - Search: O(l) where l = length of linked list
   - Delete: O(l)
   - Insert: O(l)
   - Not cache friendly

0. **Dynamic Sized Arrays** (Vectors in C++, ArrayList in Java, list in Python)
   - Search: O(l) where l = length of array
   - Delete: O(l)
   - Insert: O(l)
   - Cache friendly

0. **Self-Balancing BST** (AVL Trees, Red-Black Trees)
   - Search: O(log(l)) where l = length of linked list
   - Delete: O(log(l))
   - Insert: O(log(i))
   - Not cache friendly
   - Java 8 onwards use this for HashMap

Open addressing: To prevent collisions in the hashing table, open addressing is employed as a collision-resolution technique. No key is kept anywhere else besides the hash table. As a result, the hash table's size is never equal to or less than the number of keys. Additionally known as closed hashing.

Operations in Open Addressing-

Insert Operation-

- Hash function is used to compute the hash value for a key to be inserted.
- Hash value is then used as an index to store the key in the hash table.

In case of collision,

- Probing is performed until an empty bucket is found.
- Once an empty bucket is found, the key is inserted.
- Probing is performed in accordance with the technique used for open addressing.

Search Operation-

To search any particular key,

- Its hash value is obtained using the hash function used.
- Using the hash value, that bucket of the hash table is checked.
- If the required key is found, the key is searched.
- Otherwise, the subsequent buckets are checked until the required key or an empty bucket is found.
- The empty bucket indicates that the key is not present in the hash table.

Delete Operation-

- The key is first searched and then deleted.
- After deleting the key, that particular bucket is marked as "deleted".

NOTE

- During insertion, the buckets marked as "deleted" are treated like any other empty bucket.
- During searching, the search is not terminated on encountering the bucket marked as "deleted".
- The search terminates only after the required key or an empty bucket is found.

The following techniques are used in open addressing:

- Linear probing
- Quadratic probing
- Double hashing

Linear probing: This involves doing a linear probe for the following slot when a collision occurs and continuing to do so until an empty slot is discovered.

The worst time to search for an element in linear probing is O (table size). The cache performs best with linear probing, but clustering is a concern. This method's key benefit is that it is simple to calculate.

Disadvantages of linear probing:

- The main problem is clustering.
- It takes too much time to find an empty slot.

Quadratic probing: When a collision happens in this, we probe for the i2-nd slot in the ith iteration, continuing to do so until an empty slot is discovered. In comparison to linear probing, quadratic probing has a worse cache performance. Additionally, clustering is less of a concern with quadratic probing.

Double hashing: In this, you employ a different hashing algorithm, and in the ith iteration, you look for (i * hash 2(x)). The determination of two hash functions requires more time. Although there is no clustering issue, the performance of the cache is relatively poor when using double probing.

3. Algorithm:

Below are the algorithms for linear probing and direct chaining in Python, including formulas for insertion, deletion, and search operations:

Linear Probing Algorithm:

Insertion:

1. Compute the hash value of the key using the hash function (h(k)).
2. If the computed hash index is empty, insert the key into that index.
3. If the computed hash index is occupied, probe linearly until an empty slot is found.
4. Insert the key into the first empty slot found.

Deletion:

1. Compute the hash value of the key using the hash function (h(k)).
2. If the key is found at the computed hash index, delete it.
3. If the key is not found at the computed hash index, probe linearly until the key is found or an empty slot is encountered.

Search:

1. Compute the hash value of the key using the hash function (h(k)).
2. If the key is found at the computed hash index, return True.
3. If the key is not found at the computed hash index, probe linearly until the key is found or an empty slot is encountered.
4. If the key is found during probing, return True. Otherwise, return False.

Direct Chaining Algorithm:

Insertion:

1. Compute the hash value of the key using the hash function (h(k)).
2. If the computed hash index is empty, insert the key into that index.
3. If the computed hash index is occupied, handle collisions by chaining the keys at that index (using a linked list, array, or other data structure).

Deletion:

1. Compute the hash value of the key using the hash function (h(k)).
2. If the key is found at the computed hash index, delete it from the data structure used for chaining.
3. If the key is not found at the computed hash index, handle collisions and search through the chained keys until the key is found or all possibilities are exhausted.

Search:

1. Compute the hash value of the key using the hash function (h(k)).
2. If the key is found at the computed hash index, return True.
3. If the key is not found at the computed hash index, handle collisions and search through the chained keys until the key is found or all possibilities are exhausted.
4. If the key is found during the search, return True. Otherwise, return False.

Formulas:

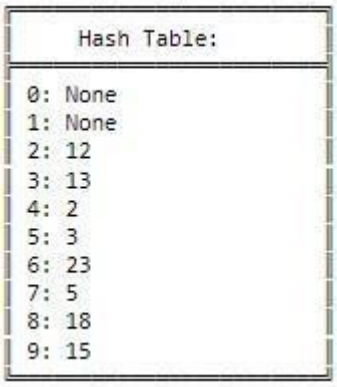
- Linear probing hash function: (h(k) = k mod m)
- Direct chaining hash function: (h(k) = k mod m)
- (k) represents the key, and (m) represents the size of the hash table.

0. Final hash table using hash functions:

The resultant hash table:

Index: 0 1 2 3 4 5 6 7 8 9

Key: - - 12 13 2 3 23 5 18 15



0. The load factor for linear probing and direct chaining:

Load Factor in Linear Probing:

The load factor in linear probing refers to the ratio of the number of elements currently stored in the hash table to the total number of slots in the hash table. It is calculated using the formula:

$$\text{Load Factor} = \frac{\text{Number of Elements}}{\text{Total Number of Slots}}$$

In linear probing, when a collision occurs, elements are placed sequentially in the next available slot. As the load factor increases, the number of collisions also increases. A high load factor indicates that the hash table is densely populated, which can lead to longer probing sequences and increased search time.

Load Factor in Direct Chaining:

The load factor in direct chaining also represents the ratio of the number of elements stored in the hash table to the total number of slots in the hash table. However, in direct chaining, each slot contains a data structure (e.g., linked list, array) to handle collisions. Therefore, the load factor can be calculated as:

$$\text{Load Factor} = \frac{\text{Number of Elements}}{\text{Total Number of Slots}}$$

In direct chaining, a higher load factor does not necessarily result in longer probing sequences, as collisions are handled by chaining keys in linked lists or arrays. However, a high load factor may still lead to longer search times within the chains due to increased lengths of the linked lists or arrays.

Conclusion:

In summary, while both linear probing and direct chaining use the same formula to calculate the load factor, their impact on the efficiency of the hash table differs. In linear probing, a high load factor can lead to increased collisions and longer probing sequences, while in direct chaining, it may lead to longer search times within the chains. Therefore, maintaining an optimal load factor is essential for the efficient operation of both collision resolution techniques.

To calculate the load factor, for the keys 12 18 13 2 3 23 5 15

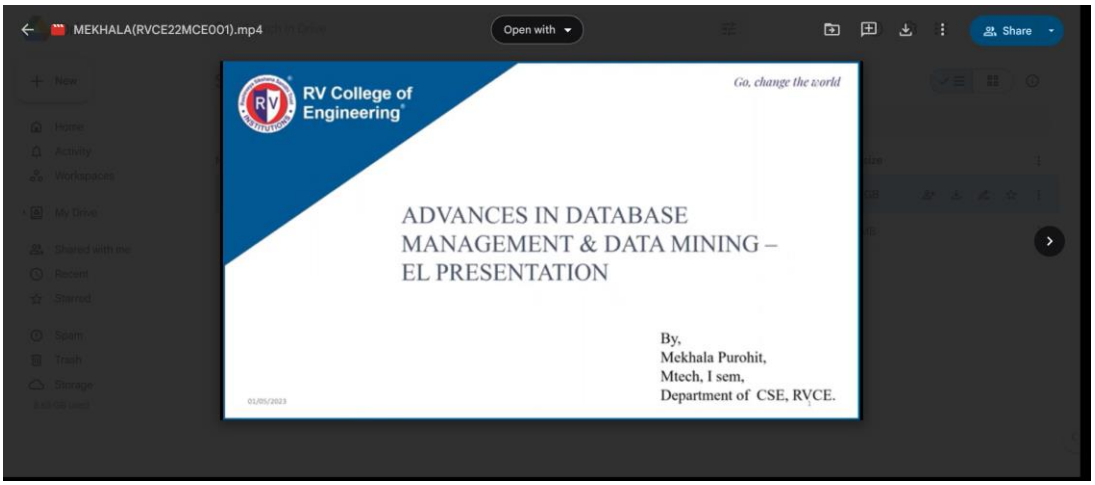
Given that the number of elements is 8 and the total number of slots is 10 for both linear probing and direct chaining, the load factor is:

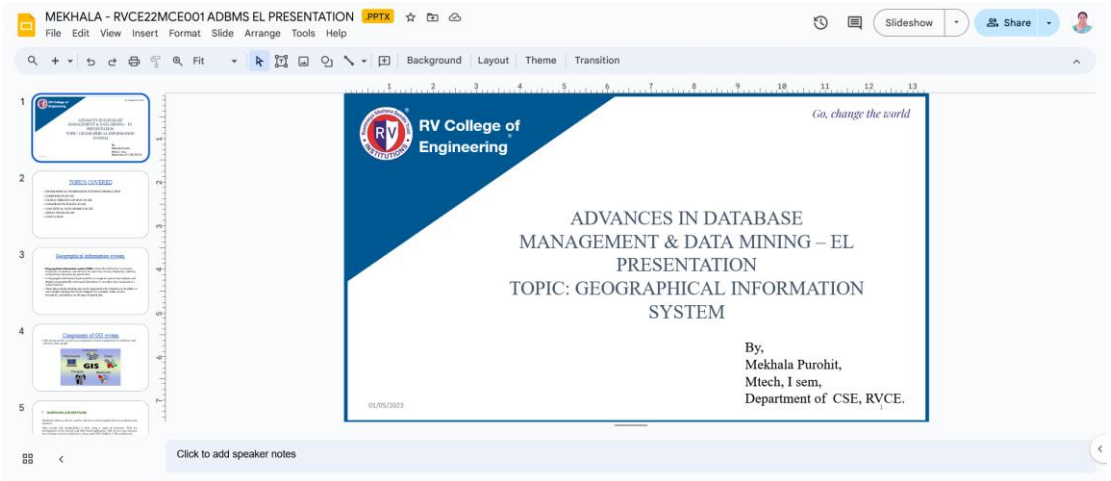
Therefore, the load factor for both linear probing and direct chaining is 0.8.

2022-23

Case Study – 2 (Complete Process report with Evaluation rubrics)

Video Recording and PPT





2021-22

Case Study – 1 (Complete Process report with Evaluation rubrics)

Assignment

RUBRIC for the Experiential Learning (30 marks)

Sl. No.	Assignment (Meets Criteria)	COs	Marks	Excellent	Good	Average	Scope for Improvement
1.	**Description of algorithm/application**	CO1	7	Exceptionally well-presented details of algorithm with explanations, figures and facts.	Well-presented and argued. Algorithm partially explained.	Student provides average presentation but not well supported with justification.	No sound content
				(7-6)	(5-4)	(3-2)	(1)
2.	**Example or Application of the algorithm and Complexity Analysis**	CO2	7	Clearly explained an application of algorithm with figures, examples and description. Complexity analyzed with reasoning	Application defined but not explained clearly. Complexity analyzed without proper reasoning	The Application is poorly identified and needs to be revised more accurately. Complexity not analyzed	No Application or example. Student does not analyze the complexity analyzed
				(7-6)	(5-4)	(3-2)	(1)
3.	**Implementation**	CO3	8	Student demonstrates the execution of the program with optimized code and shows performance efficiency.	Student demonstrates the execution of the program without optimization of the code and shows performance	Student demonstrates execution of program and does not show performance efficiency.	Student has not executed the program.

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Go, change the world

Assignment Report
On
"Sentiment Analysis of Tweets using Recurrent Neural Networks"
Deep Learning
18CE2D2

Submitted By
Rushikesh Anil Padaki
1RV20SCS12

Under the Guidance of
Dr. Hemavathy R
Associate Professor
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Submitted in the partial fulfillment for the award of degree
Of
MASTER OF TECHNOLOGY
In
COMPUTER SCIENCE AND ENGINEERING
DEPARTMENT OF CSE
RV COLLEGE OF ENGINEERING®
Bengaluru-59

2020-21

Case Study – 2 (Complete Process report with Evaluation rubrics)

2018-19

Case Study – 1 (Complete Process report with Evaluation rubrics)

Decision Trees: Fitting Classification and Regression Trees, Bagging and Random Forests, Boosting.

```
# (a)
library("MASS")
set.seed(1)
library(ISLR)
train=sample(1: nrow(Carseats), nrow(Carseats)/2)

# (b)
tree.carseats=tree(Sales~., Carseats, subset=train)
summary(tree.carseats)
plot(tree.carseats)
text(tree.carseats, pretty = 0)

yhat=predict (tree.carseats ,newdata=Carseats[-train,])
carseats.test=Carseats[-train ,"Sales"]
plot(yhat ,carseats.test)
abline (0,1)
mean((yhat -carseats.test)^2)

#MSE= 4.148897

#(c)
#Tree pruning using cv.tree
cv.carseats=cv.tree(tree.carseats)
```

```
plot(cv.carseats$size,cv.carseats$dev, type='b')


#Tree pruning using prune.tree
prune.carseats=prune.tree(tree.carseats, best=5)
plot(prune.carseats)
text(prune.carseats, pretty=0)


#Prediction using unpruned tree
prune.carseats=prune.tree(tree.carseats, best=5)
plot(prune.carseats)
text(prune.carseats, pretty=0)
yhat=predict (tree.carseats ,newdata=Carseats[-train,])
carseats.test=Carseats[-train ,"Sales"]
plot(yhat ,carseats.test)
abline (0,1)
mean((yhat -carseats.test)^2)


#MSE= 4.148897


#(e)
#Random Forest
library(randomForest)
set.seed(1)
bag.carseats=randomForest(Sales~., data=Carseats, subset = train, mtry=10,
importance= TRUE)
bag.carseats


#MSE
yhat.bag= predict(bag.carseats, newdata = Carseats[-train,])
plot(carseats.test)
abline(0,1)
```

```
mean((yhat.bag-carseats.test)^2)

#MSE= 1.401788


#(d)

#Bagging with Random forest

rf.carseats=randomForest(Sales~., data=Carseats, subset=train, mtry=6,
importance=TRUE)

yhat.rf=predict(rf.carseats, newdata = Carseats[-train,])

mean((yhat.rf-carseats.test)^2) # 2.698632

importance(rf.carseats)


#Thus we see that MSE reduced after using bagging


#Boosting

library(gbm)

set.seed(1)

boost.carseats=gbm(Sales~., data=Carseats[train,], distribution = "gaussian",
n.tree=5000, interaction.depth = 4)

summary(boost.carseats)

par(mfrow=c(1,2))

plot(boost.carseats,i="Price")

plot(boost.carseats,i="ShelveLoc")

yhat.boost=predict(boost.carseats, newdata = Carseats[-train,], n.trees = 5000)

mean((yhat.boost-carseats.test)^2)


#Changing shringage parameter for boosting

boost.carseats=gbm(Sales~., data=Carseats[train,], distribution = "gaussian",
n.tree=5000, interaction.depth = 4, shrinkage=0.2, verbose = F)

yhat.boost=predict(boost.carseats, newdata = Carseats[-train,], n.trees = 5000)

mean((yhat.boost-carseats.test)^2)
```

OUTPUT:

summary

Regression tree:

tree(formula = Sales ~ ., data = Carseats, subset = train)

Variables actually used in tree construction:

[1] "ShelveLoc" "Price" "Advertising" "Age" "Population" "CompPrice" "US"

Number of terminal nodes: 17

Residual mean deviance: 2.32 = 424.6 / 183

Distribution of residuals:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
-3.764000	-0.867800	-0.008135	0.000000	0.938200	3.616000

randomForest

randomForest(formula = Sales ~ ., data = Carseats, mtry = 10, importance = TRUE, subset = train)

Type of random forest: regression

Number of trees: 500

No. of variables tried at each split: 10

Mean of squared residuals: 2.932882

% Var explained: 64.51

Bagging with Random forest

	%IncMSE	IncNodePurity
CompPrice	11.4277099	110.496303
Income	7.4914616	115.511729
Advertising	15.9428801	142.039133

Population -0.0458889 69.010822

Price 45.7715526 478.119978

ShelveLoc 46.0291613 427.172674

Age 12.9038085 163.264237

Education -0.2051065 51.318218

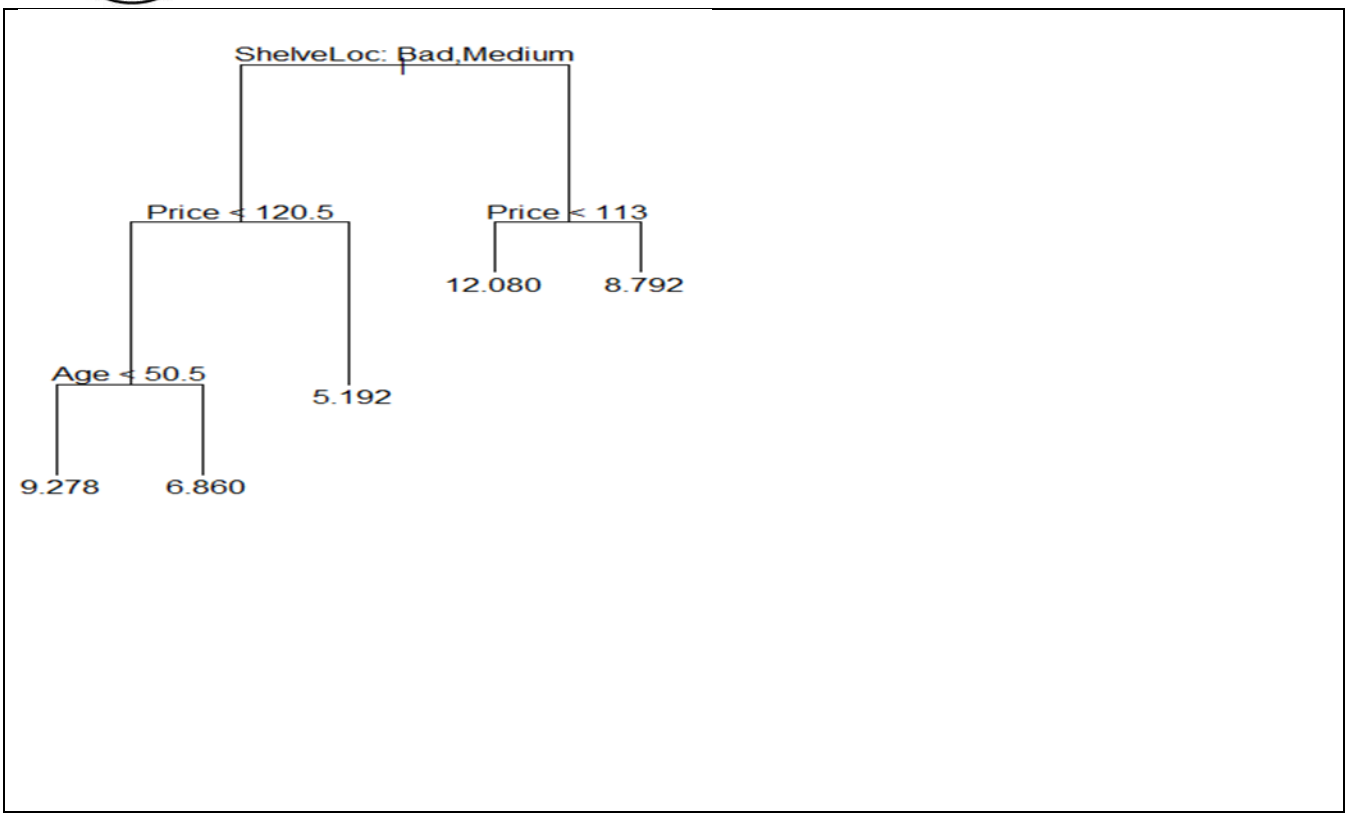
Urban -0.7084103 7.020226

US 5.2609370 20.534568

Boosting

	var	rel.inf
Price	Price	33.40921960
ShelveLoc	ShelveLoc	28.35861391
Age	Age	11.30380896
Advertising	Advertising	8.99487072
CompPrice	CompPrice	8.26665863
Income	Income	6.47156072
Population	Population	1.53668171
Education	Education	1.17904939
US	US	0.39901942
Urban	Urban	0.08051693

plot(tree.carseats)



7. Recommendations for Integrating Experiential Learning:

Based on the findings of the report, this section provides practical recommendations for educators and institutions looking to integrate experiential learning into their teaching practices. It offers guidance on curriculum design, faculty training, and assessment methods tailored to experiential learning.

8. Outcome & Conclusion:

The report concludes by summarizing key findings and insights from the exploration of experiential learning practices. It underscores the importance of experiential learning in fostering student success and calls for continued efforts to promote its widespread adoption in engineering education.

Upload all the EL/PBL reports of all the batches years wise in the following link:

https://drive.google.com/drive/folders/12Bl-3GMcanxaplN87IX-8t8f7107Au76

Course Wise Subtopic information need to be filled:

List of Students

Principle of Programming using C-22CS23(Academic Year 2022-23)

List of Students

SL NO.	USN	NAME OF THE STUDENT	Topic of EL / PBL
1	1RV22CS032 1RV22CS010	Aryann Gupta Aditya Sharma	Electric Vehical(Adoption of EV's in future. Will it be a reality?)
2	1RV22CS003 1RV22CS009 1RV22CS012 1RV22CS016	Aakash Amar Murthy Aditya Saiprasad Advaith A Akshat D	Sensors in Autonomous Vehicles (Case Study)
3	1RV22CS017 1RV22CS020 1RV22CS036 1RV22CS054	Akshatha A Ananya Bhat B H Abhisha Gagana M V	Arduino based smartphone controlled robo car
4	1RV22CS011 1RV22CS033 1RV22CS066	Aditya Verma Ashima Harshith N Kothari	Electric Vehicles - Simulation of an electric drivetrain using MATLAB
5	1RV22CS070 1RV22CS002 1RV22CS031 1RV22CS061	Hitesh S P Aakanksh N Aryan Jha H R Aneesh Tejas	Employment of Robots in E waste/Hazardous Chemical management
6	1RV22CS004 1RV22CS018 1RV22CS049 1RV22CS071	Abhijeet Amitesh Srinivas Eisa Jameel Hruthik K K	Summarised assessment of EV sector on economy of developing country
7	1RV22CS024 1RV22CS043 1RV22CS060 1RV22CS067	Ankit Patil Dadam Rishikesh Reddy Gururaj Basavaraj Ghatigennavar Hemanth Gowda C	Applications of Smart Sensors in Seismic Monitoring
8	1RV22CS079 1RV22CS062 1RV22CS064 1RV22CS073	K. Sriya Choudary H R Sankhya Haritha R Jagadeeshwari V Gogga	Role of Robotics in Disaster Management
9	1RV22CS045 1RV22CS063 1RV22CS069	Dhanyatha H Hamsaveni R Himashree N R	Structural health monitoring system
10	1RV22CS058 1RV22CS013 1RV22CS030 1RV22CS041	Goutami Sooda Ahana Patil Arya Vinod Chandana S	IOT Based Smart Lighting System
11	1RV22CS015 1RV22CS022 1RV22CS039 1RV22CS044	AKSHAT ANIRUDDHA N BAYARI BOLLUPALLE SREE SAI JAYANTH DARSHAN KASHYAP N	Smart sensors and potential role in minimising human animal conflict
12	1RV22CS001 1RV22CS021 1RV22CS038 1RV22CS042	A SANIA KULSUM ANANYA KP BHUMIKA K D S S MOHAN	Surveillance Spy Robot

13	1RV22CS029 1RV22CS057 1RV22CS068	Arya Hariharan Gayatri K Hemanth Medahal	Efficacy of Robotic Sampling Techniques on the onset of Future Pandemics
14	1RV22CS025 1RV22CS007 1RV22CS072	ANSH SRIVASTAVA ACHTYUTA SRIVATSA J ISHITA PODDAR	Practical Evaluation of Robotics in suburban transportation and collision avoidance
15	1RV22CS048 1RV22CS059 1RV22CS046 1RV22CS035	Divyansh Agarwal Govinda Nawalkishor B Dhruv Loriya Avneesh Singh	Conversion of IC engine to Electric Vehicles
16	1RV22CS026 1RV22CS053 1RV22CS077	APEKSHA S T G SHASHWATHA K PRAKRUTHI	PIEZOELECTRIC BASED POWER GENERATION
17	1RV22CS078 1RV22CS040 1RV22CS034 1RV22CS055	K Sahit Reddy Chakresh KVS Aviral Singh Ganesh N Naik	Maglev trains for rapid mass transport
18	1RV22CS014 1RV22CS019 1RV22CS027 1RV22CS076	Akash M Tambake Amol Sahu Arahanth M Jerin P Isac	Smart Metro Signalling System
19	1RV22CS005 1RV22CS008 1RV22CS052 1RV22CS075	Abhinav N Aditya G S Fayaz Jeevan S	Performance Comparison of Different Storage Devices in EV's
20	1RV22CS006 1RV22CS037 1RV22CS065 1RV22CS074	Abhinav pujari Bhumika Harsh Pateriya Jahnavi Rai	Humanoids in industry

DMS-21CS36 (Academic Year 2022-23)

List of Students

SL NO.	**USN**	**NAME OF THE STUDENT**	**Topic of EL / PBL**
1	1RV21CS184	Vanshita Tripathi	Applications of Graph Theory in Google Maps
2	1RV21CS143 1RV21CS178 1RV21CS154	Sangeeta Prasad Tavashi Kumar Shishira M Iyar	Image Steganography
3	1RV21CS130 1RV21CS164 1RV21CS165	Rutuja Tosur Sonia K M Spandana	APPLICATIONS OF THE CODING THEORY
4	1RV21CS133 1RV21CS160 1RV21CS193	S Prajwall Narayana Smit Patel Yogesh M	Application of set theory in Artificial intelligence
5	1RV21CS147 1RV21CS180 1RV21CS175	Satvik Mittal Tejas Porwal Tanish Nandi	Applications of Discrete Mathematical Structures in voice chat bot.
6	1RV21CS145 1RV21CS167 1RV21CS188	Srinidhi V Vinay D Sarfaraz Nawaz	Applications of Discrete Mathematics in solving Optimization Problems

7	1RV21CS174 1RV21CS179 1RV21CS187	TALAPANENI VARSHITH CHOWDARY TEJAS KUMAR V VIKRAM R PATEL	APPLICATION OF DMS IN IMAGE COMPRESSION AND FILTERING
8	1RV21CS137 1RV21CS138 1RV21CS163	SAKSHAM SEHGAL SAMANTH GUPTA SOMYA AGARWAL	TURING MACHINES
9	1RV21CS141 1RV21CS153	Samiksha Ranjan Shaurya Raghuvanshi	APPLICATION OF GRAPH THEORY IN AIR TRANSPORTATION NETWORK
10	1RV21CS131 1RV21CS132 1RV21CS176	DHANUSH S MOHAMMED ASHIQ TANMAY S LAL	Applications of DMS in Graph Theory
11	1RV21CS134 1RV21CS140 1RV21CS158	S Varun Samartha S Rao Shreyas Y	Application of DMS in Elliptical Curve Digital Signature Algorithm
12	1RV21CS146 1RV21CS173 1RV21CS181	SATHVIK T SUNIL KAMAREDDY THUMBEMAKKI TUSHAR UDUPA	Applications of DMS in Graph Theory
13	1RV21CS152 1RV21CS169 1RV21CS190	Shaurya Jain Srivatsa Kulkarni Vinayak C	Applications of Discrete Mathematical Structures in Huffman Coding
14	1RV21CS156 1RV21CS168	Shreya Trakroo Srishti Sreekumar	Application of DMS in Graph Theory
15	RV21CS177 RV21CS166 RV21CS151	TARUN VINDYA KUMAR SRIDHAR D KEDLAYA SHASHANK B	APPLICATION OF PROBABILITY IN GAME THEORY

Principle of Programming using C-22CS23(Academic Year 2022-23)

List of Students

USN	**NAME OF THE STUDENT**	**Topic of EL / PBL**
1RV22CD011	ARAVIND V	AUTOMATIC SPEED CONTROL BY RFID
1RV22CD027	LIKHITH A	
1RV22CD036	PAVAN S	
1RV22CD009	ANUBHAV PANIGRAHI	AUTOMATED BILLING SYSTEM
1RV22CD059	SWARA GINGADE	
1RV22CD040	PRAKHAR JAIN	
1RV22CD029	MUKUND VERMA	
1RV22CD063	VISHUDDH KOCHAR	MACHINE LEARNING BASED STOCK PREDICTION WEB APPLICATION
1RV22CD021	KARTIK RAO	

1RV22CD052	SARVAGYA KUMAR	
1RV22CD057	SHUBHAM GARG	
1RV22CD050	SAKSHAM SINGH	
1RV22CD005	ANANT TEWARI	CROP RECOMMENDATION SYSTEM
1RV22CD015	DEVANSH TOMAR	
1RV22CD022	KIRAN R AITHAL	
1RV22CD046	PRITHIVIRAJ N	
1RV22CD008	ANOUSHKA DWIVEDI	MULTI-DISEASE DETECTION SYSTEM
1RV22CD014	DEEPA C RATHOD	
1RV22CD025	K R S ALPANA	
1RV22CD035	ONEEKA TANEJA	
1RV22CD028	MEDHA M M	SMART TRAFFIC LIGHTS SYSTEM
1RV22CD033	NAMRATHA H J	
1RV22CD042	PRASIDDHA BHAT	
1RV22CD060	T KEERTHI AMUDAA	
1RV22CD019	Erin Sanu	SMART VACUUM CLEANER
1RV22CD017	DHRUVA B A	
1RV22CD056	Shridhar Bhat	
1RV22CD062	Vipul S	
1RV22CD013	D Amogh Karanth	EV Wireless Charging System

1RV22CD016	Dhanush H	
1RV22CD004	Anand Patil	
1RV22CD043	Pratik S Ijantkar	
1RV22CD001	ABHAY GK	Senior Ease - Elderly Care
1RV22CD007	ANISH ANAND	
1RV22CD034	NEIL SHARMA	
1RV22CD041	Pranav Kameshwar	
1RV22CD047	Puneeth B	smart voice controlled robot with health monitoring
1RV22CD001	Abhay V Ghodke	
1RV22CD031	Murgesh Doddagoudar	
1RV22CD054	Shashidhar Sarvi	
1RV22CD045	Prianshu Nath	
1RV22CD006	Anaum Fathima M R	LASER SECURITY ALARM SYSTEM
1RV22CD044	Pratiksha Majumdar	
1RV22CD003	Akanksha L	
1RV22CD026	L R Mourya	fire fighting robot
1RV22CD023	kritik jain	
1RV22CD058	supreet chavan	

1RV22CD051	Samarjith.D	

DEEP LEARNING: 18MCE2D2 (Academic Year 2021-22)

USN	STUDENT NAME	SURVEY ON TOPIC DOMAIN &IMPLEMENTATION(20)
1RV20SCS01	AKSHAYKUMAR ATHANI	INDIAN CURRENCY DETECTION AND CLASSIFICATION USING CNN
1RV20SCS02	ALTAF AHMED	INDIAN CURRENCY DETECTION AND CLASSIFICATION USING CNN
1RV20SCS03	Avani Goyal	Image caption generator using CNN and LSTM
1RV20SCS04	BHARATH R	Stock Market Prediction using LSTM model
1RV20SCS06	Lingesh S	Skin Cancer Classification
1RV20SCS07	PAVAN KUMAR CK	INDIAN CURRENCY DETECTION AND CLASSIFICATION USING CNN
1RV20SCS08	RADHA K C	Face Recognition using deep learning
1RV20SCS09	RAHUL P	Stock Market Prediction using LSTM model
1RV20SCS10	RAJAT PANDEY	Stock Market Prediction using LSTM model
1RV20SCS11	RUQUIYA ANJUM	IMAGE GENERATION AND CLASSIFICATION USING GAN
1RV20SCS12	RUSHIKESH PADAKI	Sentiment Analysis of Tweets using Reccurent Neural Networks
1RV20SCS13	Shagufta S.	image caption generator using CNN and LSTM
1RV20SCS14	SHIVAPRASAD RAI B	Object detection using Deep Learning(Mini Project)
1RV20SCS15	SINCHANA K	Face Recognition using deep learning
1RV20SCS16	SUSHMA G KULKARNI	IMAGE GENERATION AND CLASSIFICATION USING GAN
1RV20SCS17	SUSHMA S ANKAD	Object detection using Deep Learning(Mini Project)
1RV20SCS18	VIJITHATHMA H V	Skin Cancer Classification

ADVANCES IN DATA BASE MANAGEMENT & MINING (22MCE13) **(Academic Year 2022-23)**

List of Students

Sl No.	USN	Name	Topic Name
1	RVCE22MCE001	MEKHALA VINOD PUROHIT	Introduction to the concepts of GIS
2	RVCE22MCE002	AISHWARYA B	Introduction, definition and Syntax of XML
3	RVCE22MCE003	PAWAN KUMAR R	Introduction to OLAP . Its application
4	RVCE22MCE004	SACHIN JANARDHAN HEGDE	Active Databases andTriggers : Complete understanding
5	RVCE22MCE005	SHREYAS M S	Parallel operations for relational operations
6	RVCE22MCE006	NISHCHAL NARAYAN S	Basic concepts of Object model of ODMG
7	RVCE22MCE007	ANANYA A	Basic diferent database Data modelling – ER diagram
8	RVCE22MCE008	MANIKA KESHARWANI	Object Database Concepts, Object Model and ODL
9	RVCE22MCE009	VINUTH KUMAR A M	Distributed Database Concepts
10	RVCE22MCE010	RAKSHA R	Temporal and Spatial databases

11	RVCE22MCE011	MADHUNANDANA H M	Introduction to Data Warehouses
12	RVCE22MCE012	D ROHAN SINGH	introduction to NoSQL, framework used and its applications
13	RVCE22MCE014	NIRANJAN VENKATRAMAN DHOOLI	introduction to NoSQL, framework used and its applications
14	RVCE22MCE016	BHAVANA H	Introduction to data mining, counting cooccurances ,Mining for rules
15	RVCE22MCE017	Shivabasamma	Tree-structured Rules in Data mining concepts
16	RVCE22MCE018	Bhushana Patel	Information integration and their models

FCSD-21CS35 (Academic Year 2020-21)

List of Students

	SL NO.	**NAME OF THE STUDENT**	***USN***	**Topic of EL / PBL**
		Chirayu S Sheelvant	1RV20CS044	
		Gagan K U	1RV19CS050	
		Aniket Lokesh Hegde	1RV20CS021	Intrusion Detection System using Machine Learning
		ABHISHEK R MANAS	1RV20CS005	
		AMEYA P HORAKERI	1RV20CS015	
		AMRUTESH PANDEY	1RV20CS018	
		BHEEMARAY S N	1RV20CS039	video conferencing tool
		DHRUV REDDY P	1RV20CS048	
		ARIYAN KUMAR SAHA	1RV20CS028	Wireless Network Security using Quantum cryptography

		DIVYA A KITTUR	1RV20CS049	
		Divya M Tenneti	1RV20CS50	Data Leakage Detection
		Mythri	1RV21CS407	
		Jyothika K Raju	1RV20CS062	
		Aisiri	1RV20CS012	
		Allen Joel Lobo	1RV20CS013	
		Ashutosh M Bharadwaj	1RV20CS033	Network analytics
		Ganesh J Bannur	1RV20CS053	
		K Dheemonth	1RV20CS063	
		Aaryaman Bhardwaj	1RV20CS002	VLAN simulation using cisco packet tracer
		Joel Mathew	1RV20CS061	
		Anish Felix Mathias	1RV20CS022	
		Anushka Agarwal	1RV20CS026	Efficient and secure image and video processing and transmission in wireless networks
		Atharv Gupta	1RV20CS034	
		G. Ashritha	1RV20CS052	
		Aryennhh Kulkarni	1RV20CS031	

		Bhargav V M	1RV20CS038	
		Abhinandan	1RV20CS003	
		B K Kishan	1RV20CS036	Private browsing tools-VPN
		channakeshava P R	1RV21CS402	
		Devaraj	1RV21CS403	
		Lakshmeesha	1RV21CS404	
		pavan	1RV21CS408	fast path forwarding
		Darshan V	1RV20CS046	
		D Giridhar Reddy	1RV20CS045	
		Hrithik M	1RV20CS058	
		Abhishek K	1RV20CS006	Creating a Incentivised Peer 2 Peer file sharing | streaming | distribution network for enterprise applicatons
		Aishwarya rani s k	1RV21CS400	
		Bhanu priya	1RV21CS401	
		Lavanya K J	1RV21CS405	sign and verify signature using metamask (block chain)

Abishek Nanjappa	1RV20CS007	Network automation and router configuration using Python

Anant Vikram Singh Rathore	1RV20CS020	
Jeet Agarwal	1RV20CS060	
Ishan Kaushik	1RV20CS059	
Chandan Kasamsetty	1RV20CS042	
Abhinav Samaga	1RV20CS004	
Arya Adesh	1RV20CS029	Detection of parts of Saree and changing its colors using color pallet
Adarsh V	1RV20CS008	
Amogha HS	1RV20CS017	
Anantha Anand	1RV20CS019	
Harsha HL	1RV20CS055	Knowledge graph
B Praneeth	1RV20CS040	
Ashutosh kumar singh	1RV20CS032	
Chetan	1RV20CS043	
D Karan sai reddy	1RV20CS051	Energy efficient algorithms in WSN
Anubhav Deshwal	1RB20CS024	
Harsha Vardhan Tomar	1RV20CS056	
Arindam Thakur	1RV20CS027	Human Face Emotion Recognition
Anjuman	1RV20CS023	
Rushikesh Amale	1RV20CS014	Mask RCNN
Aryan Raj	1RV20CS030	
Anupama sinha	1RV20CS025	
Amit kumar	1RV20CS016	Client Server Communication

Atul Shetty	1RV20CS035	
Devang	1RV20CS047	
Aditya Tejasvi	1RV20CS011	Driver Drowsiness system

List of Students

M.Tech CSE I SEM 2023-2025 Batch

SL NO	USN	Student Name	Assignment	
1	RVCE23MCE001	SURESH N	Q1	Q2
2	RVCE23MCE002	SAHANA D SHEJWADKAR	Q3	Q4
3	RVCE23MCE003	PRANAV R MAGADUM	Q5	Q6
4	RVCE23MCE004	SHRAVANYA G	Q7	Q8
5	RVCE23MCE005	TRUPTI HEGADE	Q9	Q10
6	RVCE23MCE006	DEEPAK ISHWAR GOUDA	Q11	Q12
7	RVCE23MCE007	MOHAMMED AFEEF HUSSAIN	Q13	Q14
8	RVCE23MCE008	NIRANJAN G C	Q15	Q16
9	RVCE23MCE009	RAKSHA B R	Q17	Q18
10	RVCE23MCE010	SOWMYA A PATIL	Q19	Q20
11	RVCE23MCE011	SANJANA RAVINDRA OTIHAL	Q21	Q22
12	RVCE23MCE012	URMILA N	Q23	Q24
13	RVCE23MCE013	SOUJANYA S K	Q25	Q26
14	RVCE23MCE014	PAAVANI KOMARLA	Q27	Q28
15	RVCE23MCE015	BHARGAV CB	Q29	Q30
16	RVCE23MCE016	SRUSHTI	Q31	Q32
17	RVCE23MCE017	SUSHANTH S RAO	Q33	Q34
18	RVCE23MCE018	BINDU PRIYA R	Q35	Q36

MACHINE LEARNING Course Code : 18MCS2C2 (Academic Year 2018-19)

	USN	NAME	Topic
1	1RV18SCN01	AKASH HEGDE	K-means Clustering, Mixtures of Gaussians
2	1RV18SCN02	ANIL KUMAR M S	Random Forests – introduction with sample example
3	1RV18SCN05	HARISH KUMAR S	Learning Ensembles, Learning a Good Ensemble, Rule Ensembles
4	1RV18SCN06	KARTHIK M V	Learning Ensembles, Learning a Good Ensemble, Rule Ensembles
5	1RV18SCN08	KRITHIKA L	Random Forests and Over-fitting, Analysis of Random Forests
6	1RV18SCN12	PRAMOD K	Random Forests and Over-fitting, Analysis of Random Forests
7	1RV18SCN14	SANKIRTHANA SHASTRY	Regularization Paths, Penalized Regression-Ensemble Learning
8	1RV18SCN17	TANUJA K PATIL	Regularization Paths, Penalized Regression-Ensemble Learning

List of Students

SL NO.	USN	NAME OF THE STUDENT	Topic of EL / PBL
1	1RV20CS013	Allen Joel Lobo	ALPR for Indian Scenarios
2	1RV20CS004	Abhinav Samaga	ALPR for Indian Scenarios
3	1RV20CS009	Aditi	Heart Failure Detection
4	1RV20CS010	Aditya Jaggi	Heart Failure Detection
5	1RV20CS005	ABHISHEK R MANAS	Comparitive analytics of best scenarios for CPU and GPU.
6	1RV20CS003	ABHINANDAN	Comparitive analytics of best scenarios for CPU and GPU.
7	1RV20CS002	Aaryaman Bhardwaj	Fast Fourier transforms
8	1RV20CS020	Anant Vikram Singh Rathore	Big Basket Recommendation system using FAISS model: A CUDA powered analysis
9	1RV20CS014	Amale Rushikesh	Big Basket Recommendation system using FAISS model: A CUDA powered analysis

10	1RV20CS007	Abishek Nanjappa	Fast Fourier transforms
11	1RV20CS045	D Giridhar Reddy	Image upscaling and LLM inferencing using CUDA
12	1RV20CS039	Bheemaray SN	Image upscaling and LLM inferencing using CUDA
13	1RV19CS050	Gagan K U	text to image generation using cuda
14	1RV20CS024	Anubhav Deshwal	Sentiment Analysis on Customer Reviews Using CUDA
15	1RV20CS023	Anjuman	Sentiment Analysis on Customer Reviews Using CUDA
16	1RV20CS017	Amogha H S	Lung Cancer Detection through GPU Parallelization: A
17	1RV20CS019	Anagha Anand	CUDA-powered Comparative Analysis
18	1RV20CS028	Ariyan Kumar Saha	Lung Cancer Detection through GPU Parallelization: A
19	1RV20CS048	Dhruv Reddy P	CUDA-powered Comparative Analysis
20	1RV20CS041	Chanakya Jha	Particle Simulation using CUDA
21	1RV20CS029	Arya Adesh	Particle Simulation using CUDA
22	1RV20CS042	Chandan Kasamsetty	Nqueen's problem using CUDA
23	1RV20CS026	Anushka Agarwal	Optimised Prewitt Edge Detection with CUDA
24	1Rv20CS031	Aryennh Kulkarni	Optimised Prewitt Edge Detection with CUDA
25	1RV20CS044	Chirayu S Sheelvant	Accelerating Water Quality Detection through GPU Parallelization
26	1RV20CS021	Aniket Lokesh Hegde	Accelerating Water Quality Detection through GPU Parallelization

27	1RV20CS033	Ashutosh M Bharadwaj	The Game of Life
28	1RV20CS027	Arindam Thakur	The Game of Life
29	1RV20CS046	Darshan V	X-Ray Anatomy Classification (using Cuda GPU)
30	1RV20CS034	Atharv Gupta	Image Greyscaling using CUDA
31	1RV20CS032	Ashutosh Kumar Singh	Image Greyscaling using CUDA
32	1RV20CS039	Bheemaray S N	Plant disease detection using CUDA
33	1RV20CS047	Devang Kharbanda	Plant disease detection using CUDA
34	1RV20CS035	Atul Anand Shetty	Image upscaling using CUDA
35	1RV20CS030	Aryan Raj	2D & 3D Convolutions using
36	1RV20CS025	Anupama Sinha	CUDA
37	1RV20CS036	B K Kishan	2D & 3D Convolutions using
38	1RV20CS038	Bhargav V M	CUDA
39	1RV20CS040	Praneeth	Radix sort using CUDA
40	1RV20CS043	chetan	Radix sort using CUDA
41	1RV20CS058	Hrithik Maddirala	Parallelising complex mathematical calculations using cuda
42	1RV20CS052	G Ashritha	Parallelising complex mathematical calculations using cuda
43	1RV20CS050	Divya Maithreyi Tenneti	car price prediction using cuda
44	1RV20CS049	Divya A Kittur	car price prediction using cuda

45	1RV20CS059	Ishan Kaushik	Accelerating Network Anomaly Detection through GPU Parallelization
46	1RV20CS057	Harshit Raj	Accelerating Network Anomaly Detection through GPU Parallelization
47	1RV21CS404	Lakshmeesh M V	Parallel AES Algorithm using CUDA
48	1RV21CS408	Pavan Thomake	Parallel AES Algorithm using CUDA
49	1RV21CS403	Devaraj M naik	Cholesky Decomposition Matrix Algorithm using CUDA
50	1RV21CS402	Channakeshava P R	Cholesky Decomposition Matrix Algorithm using CUDA
51	1RV20CS062	Jyothika K Raju	Image-processing using CUDA.
52	1RV21CS407	Maitri V J	
53	1RV20CS053	Ganesh Bannur	Image-processing using CUDA.
54	1RV20CS063	K Dheemonth	Image-processing using CUDA.
55	1RV20CS051	D karan Sai reddy	diabetes prediction using CUDA
56	1RV20CS060	Jeet Agarwal	diabetes prediction using CUDA
57	1RV20CS056	Harsha Vardhan Tomar	Video Processing using CUDA
58	1RV21CS401	Bhanupriya Y	Video Processing using CUDA
59	1RV21CS405	Lavanya KJ	Visual Question Answering using CUDA
60	1RV20CS061	Joel S Mathew	Visual Question Answering using CUDA
61	1RV20CS055	Harsha H L	Tensorflow-GPU vs CPU Performance comparison

Master of Computer Applications

Department of Master of Computer Applications has been keen is continuous upskilling and upgrading in TLP. The department aims at providing best learning experience to the students through practical approach such as hands on experience in Laboratory, Internship, minor and major projects to envision the solutions to real world applications. Project Based Learning is emphasised in assessment including assignments or self-Learning. All these measures have alleviated the student's readiness towards being Industry ready.

Table of Contents:

1. Introduction

The inclusion in ICT in education opens the new learning approaches including hands-on activities, problem-solving, and active commitment with the subjects. MCA (Master of Computer Applications) graduates are expected to design and deliver the solutions to the real-world problems in the rapidly evolving technological landscape. The Experiential learning and project based learning approach aids in bridging the theorical concepts and practical skills of students.

2. Theoretical framework of Experiential Learning

The theoretical framework for EL in MCA includes Human dimension- learning about oneself and others: team player, Integration- connecting people, ideas, and domain, learning to learn- becoming a better learner: life-long and sustained learning.

At department of MCA the EL and PBL are carried out as team activities, where students learn the skills to be a team player. They are provided with chances of exploring themselves to design solutions to the problems through design thinking approaches and acquire knowledge to fins association between users, solution, and the domain itself.

3. Types and Approaches of Experiential Learning

Department of MCA explored various approaches of EL and PBL such as weekly laboratory experiments, technical projects Minor and Major projects, Social and environmental projects through design thinking approach, Real time projects through Centre of Excellence. These diverse and practical approaches cater student community to acquire and enhance their practical knowledge and problem-solving ability.

Year wise Broad Topics

2023-24		
Sl No	Even Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1.	Even Semester are yet to commence for the year	AR VR: To obtain the Unity Certification of "Associate game developer" WAP: Application domains considered are Event Management, Language learning, Landing page, social networking, E-commerce, Sales Monitoring, Dashboards Job portals, Rental portals, AI chatbot, Crime alert, Online gaming, Booking / reservation, Matrimony Service

2022-23		
Sl No	Even Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1.	DBMS: Database design, implementation, and querying (simple to complex queries) using Structured and un structed data bases such as MySQL for structure and MongoDB for NOSQL. Semantic DB concepts for current database design and interpretation.	OOP: Module of tkinter GUI, python function, python modules, dictionary in python and api, django web framework , mongoDB, Frontend - html ,css ,js, OpenCV for Motion Detection, D3 for Animation, Django Web Framework MySQL Database, Pillow, OpenCV, scikit-image, Jupyter(IDE), numpy, tensorflow, matplotlib, pandas, cv2, keras, Numpy and Pandas for data cleaning, Matplotlib for data visualization, Python flask for http server Sklearn for model building AR-VR: To explore and design the Games in AR, VR or MR domain

2021-22		
Sl No	Even Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1.	DSA: Load Balancing algorithms used in cloud computing (Round Robin and Weighted round robin) Page replacement algorithms Algorithms for Big databases Shortest path algorithms used in computer networks and applications like google map Algorithms used for resource management in software or optimization of content delivery networks (Rucksack problem) Algorithms used in applications like network of roads, rail tracks connecting all the cities Shortest path between all the source destination pairs Linear ordering of vertices in directed acyclic graph Algorithms used in applications like delivery of online ordered items by delivery boy to the customers at different locations in the city. Traversal techniques used to convert an infix expression to prefix and postfix. Algorithms used for data encryption Algorithms used in task assignment to employees in an organization Matrix Multiplication String pattern matching algorithms used in detecting plagiarism in a sentence Sorting countable objects, that come from a discrete set of values, such as bounded integers.	AR-VR: designing and developing either game based or experience based simple projects in the field of Augmented, Virtual and Mixed reality. **Educational Website**-An educational website in its narrowest definition is one representing an educational institution such as a traditional school, college or university. It may also represent a private education provider such as a tutor, or a virtual college offering online and distance-based courses. **Business Directory Websites**- A business directory website is one that gathers together data on many different businesses in one place. Such websites have traditionally been useful places to advertise on and have also served as valuable sources of free links to business websites **Portfolio websites / CV websites**- Portfolio websites are ones serving as a showcase of the work

2021-22		
Sl No	Even Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1.	Object Detection using Tiny ML: Data has been collected in real time from the institution and CNN model is built and evaluated using Tiny ML Heart Disease Prediction: Real time data is collected, pre-processed and	

	Regression algorithm is implemented. User Interface is developed using flask.	

2020-21		
Sl No	Even Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1.	Reality Time Sign Language Detection using IBM Cloud: Different sign images are collected and pre-processed. Model is build using ML algorithm and uploaded in cloud. Graduate Admission Prediction: Five years data regarding student admission and different other factors are collected, pre-processed and regression technique is implemented to predict the near admission	**Catalogue and Brochure**: A brochure website is the simplest type of website in terms of functionality. Brochure websites typically only have a few pages, and will be used by small businesses that need a simple online presence. **Marketplace**: websites which allow multiple vendors to sell to customers through the same site. **Portal, Informational**: brings together information from lots of different sources on the web, through their homepage, allowing users to access their emails, alerts and files all in one place. **Online community, social media**: Social media websites are platforms which allow the sharing of images or ideas and encourage online interaction **Merging of Topic with OOP course**: If the topic selected by students for OOP course allow to have the frontend, then with prior permission and discussion with both course handling faculty the student may take up the assignment

2019-20		
Sl No	Even Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1.		

2018-19		
Sl No	Even Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1.		

4. Benefits of Experiential Learning with respect to your department

Some of the observed advantages of the EL and PBL among the student, are increased level of engagement, clear understanding the problem, adapting to new/latest tools and technologies, collaborative teamwork. Advantages observed for faculty are effective evaluation and assessment of the work, role, and contribution of each student in the work to give better feedback to students for improvement.

5. Challenges in Implementing Experiential Learning with respect to your department

The challenges identified for implementation of EL and PBL were: Defining clear and unambiguous problem statements. Time required for acquiring necessary knowledge to complete the work required more time as compared to traditional approaches. Framing evaluation criteria and rubrics to assess students' individual contribution, understanding the peer view, and coping with shift in one's idea. With time and experience these challenges are being handled.

6. Case Studies and Examples

Case studies considered at Department of MCA include real time and live projects from CoE, consultancy work, Social and environmental concerned projects through Design Thinking approach.

2023-24				
MCA104I-WAP: Assignment				
Q. No		Marks	CO	BT
1	Design and develop a web application for domain of your choice	15	3	3
2	Report demonstrating the entire development life cycle of your web application to be submitted after the presentation and review	8	4	4
3	Presentation	7	2	2
Assignment is team activity. Max size of the team is 2students. The team details to be shared within 2 days and get approval from the faculty. List of Domain, Event Management app, Language learning app, Landing page, Social networking app, E-commerce app, Sales Monitoring app, Dashboards, Job portals, Rental portals, AI chatbot, Crime alert app, Online gaming app, Booking / reservation app, Matrimony app, Service app				

Rubrics:

Criteria	Excellent	Good	Poor
Analysing the requirements as per the selected domain	Excellent/different Analysis, design and development to get expected results (5 marks)	Good Analysis, design & development to get expected results (4-3marks)	Poor Analysis, limited design and development to get expected results (1-2 marks)
Aesthetic of the web applications with ease of navigation and user-friendly UI	Excellent aesthetics with user friendly UI (7-10 marks)	Good aesthetics with user friendly UI (3-6 marks)	Limited aesthetics with user friendly UI (1-2 marks)
Report	Organized and well formatted report with relevant content (6-8 marks)	Organized and but not well formatted report with relevant content (5-3 marks)	Poor organization and unformatted report with relevant content (1-2 marks)
Presentation	Confident and communicate all ideas clearly about method/ procedure (5-7marks)	Answers Questions & demonstrates good understanding of the working applicability (3-4 marks)	Explains the procedure without clear understanding (1-2 marks)

Evaluation criteria:
The weightage of the Assignment Phase2 is of 20 marks.
The Assignment must be supported by GUI/Web interface.
The Assignment implementation must incorporate suitable data structures and programming methodology (Like: Greedy Approach, Divide and Conquer, Dynamic Programming, Backtracking or Branch and Bound) with the time complexity.
The Assignment will be evaluated in 2 phases.
Phase 1: Review on the application of data structure, programming methodology and implementation of programs
Phase 2: Analysis of the algorithms and GUI Implementation.
The questions 1 to 5 must be answered based on the topic selected by the group

Sl. No	Question	Marks
1	Identify the different algorithms, data structures and various design techniques used to solve the given problem	2
2	Implement and demonstrate the problem using at least two different algorithms, data structures and techniques.	7
3	Analyze the time complexity of the problem for the identified algorithm, design techniques and data structures used.	5
4	Justify and evaluate the implemented design techniques?	2
5	GUI Design and implementation	4

2021-22

22MCA13TL – COMPUTER NETWORKS

Review of the work will be done on -
Stage 1 - Understanding – any one of the View classes to be taken and sample working with one
event activity to be done and shown along with the explanation of other methods on the view object
considered - CO1 – 15 Marks
Stage 2 - Network Diagram & Procedure
o Problem definition – Requirement specification with hardware components used in the work to be specified
o The entire procedure / steps with required commands to be listed
o Students should pair as a team and can are free to choose a topic of their choice - CO2 – 15 Marks
Stage 3 – Implementation and Demonstration
o Linux commands related to the work taken up should be explained- CO3 – 15 Marks
o Demonstration of the work along with the report copy- CO4 – 15 Marks
Evaluation will be done on the individuals learning outcomes and contribution, demonstration and
presentation skills

20MCA251- Machine Learning

Assignment-1

Subimitted on or before 10th May 2021				
Sl.No	Assignment1	Marks	CO	BTL
1	software Testing related online certification course	10 Marks	CO1,CO2	2
2	Preparation of Presentation on the topic studied during certification and present	5Marks	CO4	2

Assignment 2

Submitted on or before 1st July 2021				
Sl.No	Assignment2	Marks	CO	BTL
1	Report writing for the Testing project	5 Marks	CO1,CO2	1,2
2	Identifying the test cases and Writing test cases related to Minor project for all three levels	5Marks	CO3	3
3	Automate the test case and demonstrate	5	CO4	4

Rubrics:

Criteria	Excellent	Good	Poor
Important and relevant Software testing Certification	Software testing Certification on time (10marks)	Delay in the producing certification (7marks)	Only basics understanding on the Software testing (5 mark)
Presentation of the outcome of online ST certification	Presentation with outcomes of the ST certification (5 marks)	Only case study (2)	Poor presentaion(1mark)
Writing for the test case selected Minor project/Case study	Relevant test cases with respect to Project/1case study (5)	------	Poor Test cases (1)

Identification of the proper test cases	Identification Unit / Integration and system test cases of Test cases for with respect to Case study selected(5)	Only Unit test cases (2)	-------
Execution/Demonstration of test cases for the project/case study	Execution of all test cases (5)	Only execution of unit test cases(2)	----------

2020-21

20MCA21-Software Engineering

The Assignment will be evaluated in 2 phases.
o Phase 1: Review on the certification carried out
o Phase 2: Report writing

Sl. No	Assignment1	Marks	BTL	CO
1	software Engineering related online certification course	10 Marks	L1, L2	CO1, CO2
2	Preparation of SRS in the IEEE for the case study	5 Marks	L3	CO4

Sl. No	Assignment2	Marks	BTL	CO
1	Report writing for the selected case study	5 Marks	L1, L2	CO1, CO2
2	Methodology adopted for the case study	5 Marks	L3	CO3
3	Key finding explanation for the case study	5 Marks	L4	CO4

2019-20

16MCA422 - MAD

Review of the work will be done on -
Stage 1 - Understanding – any one of the View classes to be taken and sample working with one
event activity to be done and shown along with the explanation of other methods on the view object considered - 05 marks
Stage 2 - The Logic and UI
o Problem definition – Requirement specification with sustainability of the work to be given
o The entire flow of the activities / fragments to be drawn and explained
o Sample EL is given at the end. Students can take their own works also - 10 marks
Stage 3 - Action and Coding
o Java code related to the work taken up to be done
o Demonstration of the app along with report copy - 15 marks
Evaluation will be done on the individuals learning outcomes and contribution, demonstration and
presentation skills

2018-19

18MCA13 – Data Structures Using C

Assignment Evaluation Criteria

Review – I Should be completed before 14-12-2018
Demo and Documentation pertaining to

Rubrics	Marks	CO	BTL
Literature Review : Understand the topics, Existing algorithms / Usage of data structure	05	CO1	L1,L2
Design relevant Algorithm/ Logic of data structure to the problem	05	CO2	L2, L3
Apply the algorithm/ data structure to the problem & Implementation of Preliminary Modules / Sub Modules and Analyze it	05	CO3	L3

Review – II on 04-01-2019
Demo and Documentation pertaining to

Rubrics	Marks	CO	BTL
Testing: Validation & Verification & Examine the efficiency	05	CO4	L3, L4
Implementation of the Integrated System & Project Report	10	CO4	L4

7. Recommendations for Integrating Experiential Learning

Experiential Learning was introduced in the department as one of the components in Continuous evaluation process. Over the period the advantages and benefits of it are released. Currently the is integrated with theory as well as the laboratory component. The EL is also extended and used in the regular classes to demonstrate the working scenario of the concepts taught in theory sessions. One concept is demonstrated, and the related ones are explained and asked to implement during the class. This approach has improved the time duration of engagement and involvement of students during theory classes.

8. Outcome & Conclusion

EL approach in MCA yielded multifaceted benefits in TLP. It has proved to be a tool in enhanced learning through laboratory experiments, internships, minor and major projects. It develops a critical thinking , problem solving ability and team associativity among student community.

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS
EL TOPICS / ASSIGNEMNTS
Academic Year 2023-24
20MCA14 : Object Oriented Programming

1	RVCE21MCA029	Punith Gowda S P	Cyber crime management system using tkinter
	RVCE21MCA099	Mathew K I	
2	RVCE21MCA010	Shreeram M	Covid management system and Analyser
	RVCE21MCA082	Sumanth CR	
3	RVCE21MCA023	Yathish L	Weather forecast using tkinter
	RVCE 21MCA035	SriGanesh NH	
4	RVCE21MCA016	Megha Krishna	List Computation and Regular Expression.
	RVCE21MCA037	Manjunatha B	
5	RVCE21MCA057	S Prashant Iyer	Desktop Virtual Assistant (JARVIS the IRON MAN)
	RVCE21MCA011	Piku Maity &	
	RVCE21MCA081	Sanjeev K Pandit	
6	RVCE21MCA032	Puneeth Kumar V	E-Commerce Application using Django
	RVCE21MCA107	Nithin	Examiner allotment system
7	RVCE21MCA061	Thejas P	
	RVCE21MCA021	Ranjith Kumar J	Quiz application

8	RVCE21MCA098	Rakshith R	
	RVCE21MCA049	Rudragouda	Face recognition using Django
9	RVCE21MCA114	Pranav Dhama	
	RVCE21MCA042	Nikhil Pradhan	Stock market analysis and prediction
10	RVCE21MCA112	Piyush Kumar	
	RVCE21MCA091	Vinay Narwade	Crypto Price and Graph Application
11	RVCE21MCA015	Sanjana Gururaj Avadhani	
	RVCE21MCA053	Vaibhava Hathawar T L	Sports -Cricket Score Board
12	RVCE21MCA055	Prajwal K	
	RVCE21MCA038	Prakruthi C Y	Transportation Problem
13	RVCE21MCA054	Tejas Girijakant Naik	
	RVCE21MCA005	Shashank Tiwari	Restaurant Management System
14	RVCE21MCA024	Tyagaraj Gopal Naik	
	RVCE21MCA017	Prathiksha M	Placement Management System
15	RVCE21MCA092	Nagendra Herle	
	RVCE21MCA028	Suraj N M	Animal veterinary management system
16	RVCE21MCA064	Sanskrati Agarwal	
	RVCE21MCA110	Sharad Mishra	Time table management system
17	RVCE21MCA072	Priyanka P Devaramani	
	RVCE21MCA025	Sushmita Shastri	
18	RVCE21MCA004	Naganath Kousik	Tourism management Application
	RVCE21MCA093	Winil Joseph Rodrigues	
19	RVCE21MCA018	Subrahmanya hegde	Car price prediction
	RVCE21MCA041	Vaibhav Kulkarni	
20	RVCE21MCA068	Sai kiran	Web scrapping to get least cost of books
	RVCE21MCA067	Pavan v chakrasali	
21	RVCE21MCA050	Vipul Tiwari	Tourism Manual System
	RVCE21MCA062	Ravi Bansal	
22	RVCE21MCA003	Shashi Singh	Quiz management system
	RVCE21MCA066	Shaik Rukhaya Bhanu	
23	RVCE21MCA008	Sohan Gowda C	Online Quiz management system
	RVCE21MCA117	Rakshitha K	
24	RVCE21MCA065	Pavitra T	

	RVCE21MCA118	Supriya M V	Demonstration of Package- List of Even and Odd Number
25	RVCE21MCA026	Sai Nirupama	Face Detection using tkinter
	RVCE21MCA040	Shimpy Kumari	
26	RVCE21MCA077	Pannaga Shastri S	Real Time Chat Application
	RVCE21MCA075	Prakash RS	
27	RVCE21MCA104	Shireesha K B	Data management- Crime against women
	RVCE21MCA089	Nikisha Bongale	
28	RVCE21MCA119	Md Nazish	Demonstration of User defined Package
	RVCE21MCA058	Sudhyasatta mondal	
29	RVCE21MCA095	Somnath Basavant Kenchannavar	Application to post all program doubts
	RVCE21MCA103	Tushar	

Principles of UI/UX Design MCA262C3

Team No	USN	Name	Topic of EL (Details like Online Course/Application development)
1	1RV22MC109	Gautam Vaghasiya	Online course: Principles of UX/UI Design by Meta
2	1RV22MC076	Rahul.M.Salagundi	Project Based EL UIUX components used in Power Bi Dashboard
3	1RV22MC114	Yashas K V	Minor Project Based EL UIUX concepts used to implement IOT Based Biogas Plant Monitor
4	1RV22MC085	Sanketh S K	
5	1RV22MC042	Karthik Kalburgi	Online Course : Udemy Complete Web & Mobile Designer: UI/UX, Figma, +more
6	1RV22MC038	Harsh Divate	Online Course : Udemy Figma UIUX Design Essentials
7	1Rv22MC041	Karthik G Hiremath	Online Course : Udemy Figma UI UX Design Essentials
8	1RV22MC067	Prajwal B C	Minor Project Based EL Dynamic Virtual Chatroom with Voice Integration using Unity
9	1RV22MC074	Priyanka SP	Food Delivery Application Website using FIGMA
10	1RV22MC068	Prajwal R	
11	1RV22MC046	Manjunath B	Online Course : Infosys Springboard Adobe XD for Web Design: Essentials principles of UI and UX
12	1RV22MC033	Gagan AS	Online Certification course: Coursera Visual Elements of User Interface Design
13	1RV22MC107	Usha Rani	Online Course: Infosys Springboard Adobe XD for Web Design: Essentials principles of UI and UX
14	1RV22MC020	Bharath K R	Designing of EdTech Web Page using FIGMA

20MCA14 : Object Oriented Programming

Experiential Learning Topics (Teamwise)				
SL No.	Member Names	SAP ID	Project Title	
1	Aravinda A Kumar	RVCE22MCA057	Weather forecasting application using python modules	module of tkinter GUI, python function,python modules, dictionary in python and api
	Manjunath	RVCE22MCA096		
	Abhishek G kellur	RVCE22MCA110		
2	Akash M	RVCE22MCA107	AYUSH - Health and hospitality website using python modules	django web framework , mongoDB , Frontend - html ,css ,js
	Bharath K R	RVCE22MCA064		
	Gagan A S	RVCE22MCA023		
3	Aishwarya C S	RVCE22MCA074	Time Planner	Python with user defined functions, tkinter GUI application, date, time, PIL(pillow), playsound modules
	Nida Fatimah	RVCE22MCA038		
	Anjali Singh	RVCE22MCA020		
4	Bharath G M	RVCE22MCA048	Versaconvert	
	Amit Dattatreya Hegde	RVCE22MCA039		
	Mohammed anas	RVCE22MCA089		
5	Akash R	RVCE22MCA030	IOT - Motion Sensing Time Lapse	OpenCV for Motion Detection, D3 for Animation, Django Web Framework MySQL Database
	Leandra Anderson	RVCE22MCA037		
7	Nabendu Das	RVCE22MCA010	IRIS - A Speech Recognition AI System With GUI Application	Python Basic with Conditional, Looping Statements, Functions, Pyttsx3, SpeechRecognition and GUI Modules, Build-in Modules
	Anushreeta Biswas	RVCE22MCA022		
	Muhammad Junaid	RVCE22MCA103		
8	Aditya Hegde	RVCE22MCA013		Pillow, OpenCV, scikit-image

	Nandan Bhat	RVCE22MCA007	Application for image editing and filters	
	Ninad Hegde	RVCE22MCA006		
9	Goutam Narasimha Hegde	RVCE22MCA075	Handwritten text recognition	Jupyter(IDE), numpy, tensorflow, matplotlib,pandas,cv2,keras
	Manthan Kumar Singh	RVCE22MCA042		
	Nataraj Veerapur	RVCE22MCA081		
10	Manoj Kulkarni	RVCE22MCA006	Face recognition Attendance system	
	Abhishek Jadhav	RVCE22MCA019		
	Karthik Kalburgi	RVCE22MCA014		
11	Hanumantha Raju H	RVCE22MCA083	Library management system	Python, tkinter, mysql
	Bharath Kumar B R	RVCE22MCA079		
	Mohd. Sehran	RVCE22MCA121		
12	Kishore Kumar A	RVCE22MCA066	Sorting Algorithms Visualizer	Python - Object Oriented Programming concepts , Functions, Genterators . Pygame
	Dilip Singh M	RVCE22MCA072		
	Bharath B R	RVCE22MCA073		
13	Akshara M V	RVCE22MCA060	Shortest Path Finder Visualizer	Tkinter, turtle and numpy
	Ashwin P R	RVCE22MCA011		
	Dhanush Kashyap N	RVCE22MCA034		
14	Divya M	RVCE22MCA069	Face Recognition based Attendance using Flask and OpenCV	Open CV, imutils, numpy, Argparse
	Kajal pandey	RVCE22MCA029		
	Niharika M	RVCE22MCA015		
15	C.Ranjith	RVCE22MCA036	Shopping Website	Numpy and Pandas for data cleaning,Matplotlib for data
	G.Kaushal	RVCE22MCA117		
	Chamundeshwari	RVCE22MCA100		

				visualization ,Python flask for http server Sklearn for model building
16	Niharika N shetty	RVCE22MCA090	Review sentiment analysis	
	Manasa N	RVCE22MCA065		
	Dhanya M	RVCE22MCA087		
17	Gurumallesh	RVCE22MCA078	Lodge Management System	Python tkinter -this module is used for building GUI and comes inbuilt with Python
	Bharath Ramesh H	RVCE22MCA002		
	Akshaya R	RVCE22MCA018		
18	Harsh Divate	RVCE22MCA080	Volume control with Gesture Detection using Open CV	Python, OpenCV for motion detection,Pycaw, Mediapipe
	Karthik G. Hiremath	RVCE22MCA046		
	Sahil S. Naik	RVCE22MCA116		
19	Aradhya KC	RVCE22MCA092	Food Review Web Application	django web framework , mongoDB ,python modules
	Ameer Fahad	RVCE22MCA047		
	Abin Aiyappa KS	RVCE22MCA005		
	Ashish Garg	RVCE22MCA001	Typing Speed Test	Python - Object Oriented Programming concepts , Functions
20	Devik Pareek	RVCE22MCA028		

Academic Year 2021-22

20MCA22: Data Structures and Algorithms

Group No	USN	Name	Topic
1	1RV21MC090 1RV21MC084 1RV21MC092 1RV21MC089	Sanjana A Ravi B Sanskrati A Sai Nirupama	Algorithms used in task assignment to employees in an organization
2	1RV21MC079 1RV21MC066 1RV21MC095 1RV21MC098	Sushmita S Nikisha B Shahank Shimpy	Shortest path algorithms used in computer networks and applications like google map
3	1RV21MC072 1RV21MC076 1RV21MC065 1RV21MC087	Piyush Kumar Pranav Dhama Nikhil Pradhan Prashant Iyer	Matrix Multiplication
4	1RV21MC064 1RV21MC115 1RV21MC114 1RV21MC108	Nagendra Herale Vaibhava H Vaibhav K Suraj N M	Traversal techniques used to convert an infix expression to prefix and postfix.
5	1RV21MC068 1RV21MC069 1RV21MC074 1RV21MC067	Pannaga Shastri Pavan V Chakrasali Prakash R S Nithin	Shortest path between all the source destination pairs
6	1RV21MC120 1RV21MC073 1RV21MC079 1RV21MC071	Yathish L Prajwal Puneethkumar V Piku Maity	Sorting countable objects, that come from a discrete set of values, such as bounded integers.
7	1RV21MC099 1RV21MC104 1RV21MC106 1RV21MC103	Shreeram M Subramanya Sumanth Sriganesh	Algorithms used for data encryption

8	1RV21MC096 1RV21MC063 1RV21MC070 1RV21MC093	Shashi Singh Naganath Kousik Pavithra T Saik Rukhaya Banu	Page replacement algorithms (FIFO and Optimal page replacement)
9	1RV21MC080 1RV21MC081 1RV21MC083 1RV21MC099	Punith Gowda S P RAkshith R Ranjith Kumar Shireesha K B	Algorithms used in applications like delivery of online ordered items by delivery boy to the customers at different locations in the city.
10	1RV21MC113 1RV21MC110 1RV21MC116 1RV21MC088	Tyagaraj Gopal Naik Tejas Girijakanth Naik Vinay Narwade SaiKiran Kashyap	Load Balancing algorithms used in cloud computing (Round Robin and Weighted round robin)
11	1RV21MC111 1RV21MC086 1RV21MC118 1RV20MC062	Thejas P Rudragouda Winil Joseph Megha Krishna K	Algorithms for Big databases
12	1RV21MC078 1RV21MC107 1RV21MC091	Priyanka Supriya M V Sanjeev Kumar	Algorithms used in applications like network of roads, rail tracks connecting all the cities
13	1RV21MC075 1RV21MC077 1RV21MC083	Prakruthi C Y Prathiksha M Rakshitha K	Linear ordering of vertices in directed acyclic graph
14	1RV21MC085 1RV21MC101 1RV21MC102 1RV21MC119	Rohan S Sohan Gowda Somnath K Y S Kiran Kumar	String pattern matching algorithms used in detecting plagiarism in a sentence

15	1RV21MC117 1RV21MC112 1RV21MC105 1RV21MC094	Vipul Tiwari Tushar Sudhya Satta Mondal Sharad Mishra	Algorithms used for resource management in software or optimization of content delivery networks (Rucksack problem)

20MCA251: MACHINE LEARNING

SL NO	USN NO	STUDENT NAME	Title
1	1RV21MC001	ABHISHEK M	Car Safety Analysis
2	1RV21MC006	AJITH KUMAR K	Sentiment analysis on movie reviews
3	1RV21MC009	AKASH E PUNAGIN	Face Detection
4	1RV21MC011	AMIT KUMAR	Real Time Crypto Market Analysis
5	1RV21MC012	ANANDGOUDA PATIL	Sentiment analysis on movie reviews
6	1RV21MC022	BHAKTHI PRABHU	Text Summarization
7	1RV21MC025	BHAT DIVYA SUBRAHMANYA	Audio to Text Conversion
8	1RV21MC027	CHANDAN B REDDY	Rain Prediction
9	1RV21MC029	CHANDANA M	Amazon Review analysis
10	1RV21MC031	D S HARSHITHA	Loan Prediction
11	1RV21MC033	DASHLINE JOVE D SOUZA	Text Summarization
12	1RV21MC035	DEEPAK MANJUNATH BOORMANE	Face Detection
13	1RV21MC036	DIVYA M	Amazon Review analysis
14	1RV21MC041	HARSHA K S	Heart Disease Prediction
15	1RV21MC042	HRUTIK	Prediction of Stock Values using Historical Data
16	1RV21MC045	JUNAID PASHA	Car Safet Analysis

17	1RV21MC046	K B KRISHNA	House Price Prediciton in Bangalore
18	1RV21MC047	KAUSTAV PAUL	Sign Language Detection
19	1RV21MC048	KAVYASHREE N	Loan Prediction
20	1RV21MC049	KHAIRUNNISA	Audio to Text Conversion
21	1RV21MC050	KIRAN H S	House Price Prediciton in Bangalore
22	1RV21MC051	KIRAN NAIK	Prediction of Stock Values using Historical Data
23	1RV21MC052	KISHANKUMAR DAHIYA	House Price Prediction(Bengaluru)
24	1RV21MC057	MANASI NINGAPPA SHIMPIGER	Sign Language Detection
25	1RV21MC059	MANJUNATHA B	Rain Prediction
26	1RV21MC060	MATHEW K I	Super Resolution using GAN
27	1RV21MC065	NIKHIL PRADHAN	Trend and Forecast Analysis of Stock Market data
28	1RV21MC067	NITHIN	Placement Analysis
29	1RV21MC068	PANNAGA SHASTRI S	Placement Analysis
30	1RV21MC071	PIKU MAITY	Object Detection using Tiny ML
31	1RV21MC072	PIYUSH KUMAR	Trend and Forecast Analysis of Stock Market data
32	1RV21MC073	PRAJWAL K	Personality Prediction
33	1RV21MC075	PRAKRUTHI C Y	Students Marks Prediction
34	1RV21MC076	PRANAV DHAMA	Trend and Forecast Analysis of Stock Market data

35	1RV21MC079	PUNEETH KUMAR V	Personality Prediction
36	1RV21MC081	RAKSHITH R	Object Detection using Tiny ML
37	1RV21MC082	RAKSHITHA K	Students Marks Prediction
38	1RV21MC083	RANJITH KUMAR J	Object Detection using Tiny ML
39	1RV21MC084	RAVI BANSAL	Cartoonifying Images
40	1RV21MC086	RUDRAGOUDA	Super Resolution using GAN
41	1RV21MC089	SAI NIRUPAMA	Hand writing recognition
42	1RV21MC091	SANJIV KUMAR	Real Time Crypto Market Analysis
43	1RV21MC092	SANSKRATI AGARWAL	Hand writing recognition
44	1RV21MC093	SHAIK RUKHAYA BHANU	Cartoonifying Images
45	1RV21MC096	SHASHI SINGH	House Price Prediction(Bengaluru)
46	1RV21MC099	SHIREESHA KB	Speech Recognition system
47	1RV21MC100	SHREERAM M	Gold Price Analysis
48	1RV21MC101	SOHAN GOWDA.C	Movie Recommender system using sentiment analysis
49	1RV21MC103	SRIGANESH NH	Personality Prediction
50	1RV21MC106	SUMANTH C R	Gold Price Analysis
51	1RV21MC111	THEJAS P	Speech Recognition system
52	1RV21MC113	TYAGARAJ GOPAL NAIK	Movie Recommender system using sentiment analysis
53	1RV21MC114	VAIBHAV KULKARNI	Object Detection using Tiny ML
54	1RV21MC120	YATHISH L	Heart Disease Prediction

AUGMENTED AND VIRTUAL REALITY MCA262C2

Sl No	USN	Name of the Students	Title
	1RV21MC025	BHAT DIVYA SUBRAHMANYA	
	1RV21MC049	KHAIRUNNISA	Human Skeleton System
	1RV21MC028	Chandan S	Assembling of Car using
	1RV21MC112	Tushar	AR
	1RV21MC109	Sushmita S	
	1RV21MC	Sai Nirupama	AR Portal
	1RV21MC013	Anjali Patel	
	1RV21MC033	Dashline Jove D Souza	Tic-Toc-Toe game
	1RV21MC047	Kaustav Paul	
	1RV21MC057	Manasi N Shimpiger	Live Image
	1RV21MC115	Vaibhava Hathwar T L	
	1RV21MC064	Nagendra Herle	AR Tattoo
	1RV21MC007	Akash	
	1RV21MC006	Ajith Kumar K	FPS shooting
	1RV21MC004	Aishwarya K Kamble	
	1RV21MC005	Aishwarya Nagaraj Babaleshwar	Game(ace of space)
	1RV21MC095	SHASHANK TIWARI	
	1RV21MC110	Tejas Naik	Ar game
	1RV21MC090	Sanjana Gururaj Avadhani	
	1RV21MC098	Shimpy Kumari	VR game ray tracing
	1RV21MC120	Yathish L	
	1RV21MC041	Harsha K S	Tour of MCA Building
	1RV21MC073	Prajwal K	through VR
	1RV21MC096	Shashi Singh	
	1RV21MC108	Suraj N M	
	1RV21MC091	Sanjiv Kumar	MCA Exhibition-VR
	1RV21MC043	Indrabhushan Maluche	Earth Core-Science
	1RV21MC039	Gokul S	through AR

	1RV21MC044	Jay Shah	ZigZag 3D- VR Game
	1RV21MC053	Krupa S Arjunwadkar	
	1RV21MC015	Anupam kushwaha	Coin tag collector game-VR
	1RV21MC008	Akash Bhardwaj	
	1RV21MC023	Bharat Ranjan	OnStack VR bgame
	1RV21MC032	Daizy Dsouza	

Academic Year 2020-21

20MCA251: MACHINE LEARNING

Sl No	USN	Name	Project Title
1	1RV20MC116	Yashas P	Load Status Classification
2	1RV20MC050	Mohammed Saqib	
3	1RV20MC006	Ansh Gupta	EMAIL SPAM /NON-SPAM
4	1RV20MC091	Sahana Jagadeesh Bhatt	
5	1RV20MC089	Sahana R Koralli	Stock market price prediction
6	1RV20MC074	Priyanka	
7	1RV20MC002	Akshay T N	Diabetic prediction
8		Roshith	
9	1RV20MC080	Raghuram	Gold price prediction
10	1RV20MC032	Kavya N	
11	1RV20MC015	DURGESH KUMAR	House price prediction
12	1RV20MC019	GAURAV KUMAR	
13	1RV20MC047	Mathias Russel Richard Rudolf	Steam games sales / owners prediction
14	1RV20MC038	M Shamanth	
15	1RV20MC033	Kiran Dixit	Areca nut price prediction
16	1RV20MC034	Krishnamoorti Bhat	
17	1RV20MC076	R Bharath	Big Mart Sales Predicition
18	1RV20MC098	Shiva Putra	
19	1RV20MC101	Shrihari M	Reality Time Sign Language Detection using IBM Cloud
20	1RV20MC092	Sakib N Bagewadi	
21	1RV20MC012	Ashish Bisht	Gold price prediction
22	1RV20MC058	Naziya Anjum	

23	1RV20MC037	LIKITHA S	FAKE NEWS PREDICTION
24	1RV20MC067	POOJA R	
25	1RV20MC023	Hanumantha Reddy	Diabetic prediction
26	1RV20MC090	Sahana J	
27	1RV20MC096	Shashi Kumar N	Movie Recommendation System
28	1RV20MC071	Prashanth BC	
29	1RV20MC078	Rachana A	Students Marks Prediction
30	1RV20MC082	Rakshitha K B	
31	1RV20MC054	Nagarathna	Medical Insurance Cost Prediction
32	1RV20MC048	Megha M	
33	1RV20MC031	Kavitha M	Optimising Agricultural Production
34	1RV20MC027	Indhu P	
35	1RV20MC016	FIZA KOUSAR	Credit card Fraud Detection
36	1RV20MC024	Harini Gowda	Calories Burnt Prediction
37	1RV20MC046	Marcelo.D	
38	1RV20MC108	VIDYA ARADHYA G R	Diabetic prediction
39	1RV20MC026	HARSHA VARDHANA P D	
40	1RV20MC110	VINAY KUMAR H R	CARTOONIFYING IMAGE
41	1RV20MC004	ANKITH KUMAR S K	
42	1RV20MC077	R VARUN PHUTANE	Consumption of Alcohol among youth
43	1RV20MC097	MOHAN SHARMA V	
44	1RV20MC040	Madhurya Mahadev	Medical insurance cost prediction
45	1RV20MC093	Sanmati R Hegde	
46	1RV20MC009	Anusha Manjunath Raykar	Iris data analysis
47	1RV20MC084	Ramya R Ambekar	
48	1RV20MC043	Mangala Devi N	Detecting fake news
49	1RV20MC070	Pranjali Prajwal M	
50	1RV20MC087	Royson Lobo	Movie success prediction
51	1RV20MC100	Shreyas H S	
52	1RV20MC025	Harsha EB	Emojify
53	1RV20MC069	Poorvika GN	
54		Poojitha	Foot Fall Prediction
55	1RV20MC117	Yashaswini G	

56	1RV20MC061	NIRMAL KUMAR R	CAR PRICE PREDICTION SYSTEM
57	1RV20MC049	MITHUN TA	
58	1RV20MC008	Anurag Srivastava	Predict Loan Eligibility
59	1RV20MC094	Saurav Kumar	
60	1RV20MC039	Madhumitha.S	Customer targeting system
61	1RV20MC085	Ritisha.D	
62	1RV20MC107	Vatsal Patel	Stock Price Prediction
63	1RV20MC113	Vishal Gupta	
64	1RV20MC036	LAXMIKANTH	Glass Identification Data set
65	1RV20MC014	Dileep M G	
66	1RV20MC106	vamshikrishna BT	cricket score prediction
67		Pavan Kumar	
68	1RV20MC007	Anshul Goyal	Player Performance Prediction
69	1RV20MC075	Pulkit Nagar	
70	1RV20MC013	Bhagyashree Iyar M	Face mask detection
71	1RV20MC112	Vinod Kumar K	
72	1RV20MC105	Tejaswini Vishweshwar Hegde	Heart Attack Prediction Using Machine Learning
73	1RV20MC095	SAURAV PADHY	GRADUATE ADMISSION PREDICTION
74	1RV20MC060	Nirbhay patel	currency-exchange-rate-prediction-master
75	1RV20MC003	Aman raj	
76	1RV20MC035	Lalith Kumar M	Titanic disaster prediction
77	1RV20MC083	Ramesh Singh	
78	1RVCE20MCA093	ISHITA SARKAR	FAKE NEWS Detection
79	RVCE20MCA063	Mallikarjun	Iris Flower Classificaiton
80	RVCE20MCA063	Shreepad	

18MCA342 – Operations Research

Sl.No	USN	Name	Topic
1	1RV19MCA22	Charan Nagendra SS	Health Care Industry
	1RD19MCA26	V Vidya Priya	
2	1RZ19MCA27	Rakshitha MP	Implementation of Game Problem
	1RD19MCA28	Varsha Arun Dutt	
3	1RV19MCA40	KaviyaShree.E	Advertising Industry
	1RZ19MCA16	Nirmala H.G.	
4	1RD19MCA25	Umashree.leader	Transportation Industry
	1RZ19MCA08	Miral kalal	
5	1RV19MCA24	Darshan D	HR Management: Assignment Problem
	1RZ19MCA24	Pramod Simha B K	
6	1RV19MCA28	Gireesh C Hosakoppa	Simulation of CPM
	1RZ19MCA38	Sameer Akhtar A	
7	1RZ19MCA36	Sagar M	Simulation of PERT
	1RD19MCA24	Thejashree R	
8	1RD19MCA12	Sridevi Vattikuti	Simulation of Call Center Problem
	1RD19MCA30	Vedhasree G	
9	1RD19MCA14	Srujan P R	Agriculture Domain
	1RV19MCA07	Amit Jadhav	
10	1RZ19MCA05	Lavanya S	Furniture Industry
	1RV19MCA03	Aishwarya K N	

Academic Year 2019-20

16MCA422: MAD

Sl No	USN	Name	Topic
1.	1RV17MCA12	K Geetha	Cooking App
2.	1RV17MCA13	Karthik S	Fitness Application
3.	1RV17MCA14	Karthika M	Calculator
4.	1RV17MCA26	Prashant Hegde	Automatic Id Card Generator
5.	1RV17MCA39	Shishira Raj K	Speech Recognization
6.	1RV17MCA44	Shwetha G S	Quiz App
7.	1RV17MCA47	Suchitra V Naik	Voice Recorder
8.	1RV17MCA48	Sumayya Begum	Chat Message App
9.	1RV17MCA56	Syed Saif	Note Taking App
10.	1RV17MCA57	Tanjila A Mulla	Book Information
11.	1RV18MCA50	Abhishek P	Uber Clone
12.	1RV18MCA54	Ganapathy S K	Currency Converter
13.	1RV18MCA56	Harish G	Stopwatch
14.	1RV18MCA58	Kavya J	Playlist
15.	1RV18MCA60	Preeti Basanagouda Patil	My Tracky Day
16.	1RV18MCA61	Priya P	Fm Radio App
17.	1RV18MCA62	Raksha Jayaram	Java Programming Lab Component
18.	1RV18MCA63	Ramya S	Expenditure Calculator
19.	1RV18MCA64	Sagar Dhawale	Random Number Generator
20.	1RV18MCA66	Shilu P M	Voice Recorder
21.	1RV18MCA67	Sunil Kumar N	Food Recipe App
22.	1RV18MCA68	Swarna Raj	Music Player
23.	1RV18MCA71	V Ramya	Calendar App
24.	1RV18MVA68	Swarna Raj	Music Player
25.	1RZ17MCA01	Aatish Brian D Silva	Galley App
26.	1RZ17MCA02	Abdul Mathin Hb	Crud Operations On Employee Database
27.	1RZ17MCA04	Aishwarya Pai	Compass
28.	1RZ17MCA06	Anuradha Mitra	Chat
29.	1RZ17MCA07	Apeksha Ganiger	Alarm App
30.	1RZ17MCA08	Arpitha Prasad Hm	Anybooks

31.	1RZ17MCA10	Arun S Jois	Sudoku Solver
32.	1RZ17MCA11	Ashik S S	App To Display Date And Time
33.	1RZ17MCA24	Nagaveena	Calendar
34.	1RZ17MCA26	Navyashree	Calculator
35.	1RZ17MCA33	Punitha N	Music Player
36.	1RZ17MCA39	Ramya.S	Age Calculator
37.	1RZ17MCA44	Roopa.D.R	Event Remainder
38.	1RZ17MCA46	S.A.Yashaswini	Find Day Of Given Date
39.	1RZ17MCA47	S.P.Nayana	Sound Recorder
40.	1RZ17MCA49	Triveni D.V	General Event Reminder0
41.	1RZ17MCA50	Varun Sharma	Personal Book App
42.	1RZ17MCA54	Vinod P	Personal Assistance
43.	1RZ17MCA57	Yashoda Sh	Alarm Clock
44.	1RV17MCA53	Sweta Dey	Gaming App
45.	1RV18MCA70	V Jyothi	Random Number Generating
46.	1RV18MCA70	V Jyothi	Random Number Generating
47.	1RV18MCA52	Ashwini S A	Beauty Care
48.	1RV18MCA57	Kavitha S	Timer App
49.	1RZ17MCA40	Ranit Hazra	Weather Application
50.	1RV17MCA45	Sk Anisur Rahaman	Google Nearby Places
51.	1RV17MCA37	Sharan B V	Task Alerting System
52.	1RV17MCA07	Deepashri	News App
53.	1RV18MCA59	Preetham Sadashiva Revanakar	Sgpa Calculation
54.	1RV17MCA20	Madhushree M	Book Reviews App
55.	1RV18MCA69	Tousif	Alarm App
56.	1RV17MCA27	Ravi Kumar V	Simple Calculator
57.	1RV17MCA41	Shivanna Sdiddreaddi	Scientific Calculator
58.	1RZ17MCA37	Rakshit P	Themes Application
59.	1RV17MCA51	Sutirtha Saha Chaudhary	Blood Bank
60.	1RV17MCA28	Rishav Raj	Student Faculty Document Sharing App

Academic Year 2018-19

18MCA13 – Data Structures Using C

No.	USN	Name	Topic
01		Minna Elizabath Joshy Jyothi Jyothi	Simple Dictionary
02		Hemanth Vaarma B H Koteshwara Reddy	Sparse Matrix Generation
03		Chethan Pavate Nilya Kumar	Inventory Managment for Local Shopkeeper
04		Ajay D K Dhanusha S	2D Geometric Figures
05		Navya M Nishchita Nayak	Graphical Display of Recursive Calls
06		Ganesh Bhat Harshit Kumar	Tic-Tac-Toe Game
07		Jyothi K K. Vaibahvi	Solving Polynomial Expressions
08		Nayana G Kruthika Basavaraj	Pattern Generation
09		Akshay C Karthick B	Simple Calculator with Graphical Display
10		Manoj M Mohammad Sharief	Mathematical Problems using C
11		Adarsh Kumar Ankit Aman	Next number in Series of Number
12		Arun G A Karthik N K	Strong Password Generator
13		Iramma S Anujna P Rao	Operations on Mathematical Matrices
14		Manasa R Brinda K	Simple Calculator Building
15		Apurwa Anshikapriya	Game

16		Arpita Chikkodi Nidhi Shenvi	Simple Text Editor
17		Nandan Gowda Ashok R	Telephone Directory
18		Mamata T Priyanka Kambar	Student Directory
19		Akash Hebbar Aditya Raj	Sorting Functions in a Header
20		Netravati Devaki Jagannath	Family Tree for Given Relations
21		Mohammad Muzeeb Bahubali Ashok	Music Organizer
22		Jojode Yeshwanth Chapadiya Savan	Sorting Functions for Shopping Application
23		Akhil S Ajith Naik	Red Light Simulator
24		Jyotsna Swami Blossom Saviour	Ticket Counter System
25		Bavyasri V Amruta Shankar	Contact Management System
26		Datar Priyanka Ankita Patil	Facial Expression Generator
27		Bhavika Krishna Shah	Flight Simulator
28		Arunima Jaiswal Chirag Kashyap M	Reverse the Direction of a Given Singly Linked List
29		Fernandes Macklon Hanseen Quadros	Game Played by One Player
30		Abhijeet Singh Kriti Raj	Device Driver for Mouse

No.	USN	Team	Topic
01		Vishwanath M Sagar M S	Charts Visualization System
02		Ravi Chandra H N RakshitSadanand Bhat	Space Complexity Visualization of the Program
03		Poornachandra C M Reetesh Kumar	Different Calendar Display System
04		Shubham Gupta Swarup Kumar Gupta	Graphical Display of Fractals
05		PragyaPriyadarshini Samskruthi S Patil	Precision Calculator System
06		Sandesh S Hedge SwarnenduGayen	Medical Fitness Sorting System
07		NiteshKumar Umang Kumar Gupta	Call Centre Queuing System
08		Pavan S Pushkara A	Different Random Number Generators
09		VidhyaShanbhang Shakunthala N	Implementation of Vector Space Model
10		Sanjana S SumanKumari	Empirical Distribution Visualization System
11		ShilpaG Sinchana Karnawadi	Baby Growth Rate Display System
12		Varshitha G Vaishnavi N	File Management System
13		Sruthikumari TanujaKumari	Photo Ranking & Management System
14		Rukesh K R Shrikanth	Implementation Random Number Frequency Test
15		Shweta Marandi Soniya D	Simulation & Visualization of Searching Algorithm
16		Sowbhagya S Vaishanavi V	Part-Time Employee Job Management System
17		Thikshaya M	Document Ranking & Management System

		Sakina Kanchwala	
18		Sumath Sharma ProlaySaha	ISBN Information System
19		Sunny Kumar Varun Naik	Medicine Catalogue Management System
20		Ranjitha B V Shaminaz	Research Paper Management System
21		SahilBhasin Sohail Hussain	Implementation on Sparse Matrix Operations
22		Rakshit P Vibin john	Plant Catalogue Management system
23		Sadiq Jaffer Pratim Sen	Simulation of News Paper Inventory System
24		Sunil Kumar S H Vikrantha T S	Video Ranking & Management System
25		SuchethaShreeramBhat Shikha Prakash Gitte	Management of Rental product
26		Varun Kumar V Rajesh G	Traffic Signalling System
27		Prajwal P Bhat	Audio Typing system
28		Vivinadithya A M	Library Management System
29		Saharsh	Time complexity visualization of the program

Department of Chemistry

In the realm of engineering chemistry, the fusion of theoretical knowledge with practical application is paramount. The Chemical Engineering department champions this ethos through an unwavering dedication to experiential learning and Problem-Based Learning (PBL), enriching the educational journey of its students. Experiential learning through meticulously designed experiments and projects, students gain a profound understanding of chemical principles while honing essential laboratory techniques. These experiences not only provide practical insights but also foster crucial skills such as adaptability, teamwork, and problem-solving, crucial for success in the dynamic field of engineering chemistry.

The integration of Problem-Based Learning (PBL) takes the department's commitment to practical education a step further. PBL immerses students in authentic, open-ended challenges mirroring real-world scenarios. These complex problems require interdisciplinary collaboration, encouraging students to draw upon insights from various fields to devise innovative solutions. By grappling with ambiguity and ambiguity, students develop critical thinking skills essential for tackling the multifaceted challenges they will encounter in their professional careers.

Table of Contents:

1. Introduction:

In the Chemistry Department, experiential learning stands as a cornerstone of our educational philosophy, reflecting the evolving landscape of modern education. This section delves into the profound significance of experiential learning within our department, highlighting its transformative impact on students' academic and professional development. The objectives of this report are to elucidate the principles and practices of experiential learning in chemistry education, showcase its integration within our curriculum, and underscore its pivotal role in nurturing skilled, adaptable,

and ethically-conscious professionals. Following this introduction, the subsequent sections will delve into specific facets of experiential learning, illustrating its implementation through laboratory work, internships, industry collaborations, and Problem-Based Learning (PBL) initiatives.

2. Theoretical Framework of Experiential Learning:

The experiential Learning report delves into the theoretical underpinnings of experiential learning within the Chemistry Department, encompassing models such as Kolb's Experiential Learning Cycle and Dewey's theory of learning by doing. It explores how these theories serve as guiding frameworks for the design and implementation of experiential learning practices tailored to the discipline of chemistry. Through an in-depth analysis of these foundational theories, this section illuminates the synergies between theoretical constructs and practical applications, elucidating their profound impact on shaping the educational landscape within our department.

3. Types and Approaches of Experiential Learning

In this section various types and approaches of experiential learning such as Laboratory Work, Problem-Based Learning (PBL) , Case Studies, Simulations, Research Projects etc. are discussed and its evaluation methods are highlighted.

Years wise Broad Topics

2023-24		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
	Energy, Advanced Materials	Smart materials
	Quantum computing	Renewable energy
	Environment	Simulation
	Polymers for day today life	Polymers and health
	Nano materials	Nano composites
	Water technology	Sensor
	Renewable energy	Environmental monitoring
2022-23		
	Simulation/virtual lab	Content development for various unit
	Literature review	Prototype design
	Prototype design	Nanomaterials
	Water technology	Sensor and nanomaterials
	Materials for energy storage and conversion	Environmental monitoring
2021-22		
	Control of Suspended particles in traffic area	Unit wise content development video, presentation etc
	Reducing carbon suspension in air in city	Virtual lab
	Power generation through pedalling	Prototype design
	Renewable energy	Water technology and environmental monitoring
2020-21		

	Smart Agriculture	Organic Chemists Contribution to Renewable Energy
	Sensors and energy harvesting	Green Chemistry Approaches to Renewable Energy
	Nanotechnology in agriculture field	Solar energy utilisation for milk pasteurization
	Corrosion science and importance	Nanomaterials for sustainable future
2019-20		
	Food waste	Solar energy application
	Waste water management	Geothermal energy in India-electricity production
	ICT based learning	Waste management
	Corrosion science and engineering and its control	Nano world
2018-19		
	Biomass	Advanced Technology of Water Purification
	Solar, Wind	Treatment/Recycling/Harvesting
	Geothermal	Chemicals/Oil Spillage/Nutrient Pollution
	Advances in electrochemistry	Nanotechnology in industry

4. Benefits of Experiential Learning with respect to your department:

In the Chemistry Department, experiential learning serves as a catalyst for multifaceted benefits. By immersing students in hands-on laboratory work, internships, and industry projects, it cultivates a deep understanding of theoretical concepts while honing practical skills essential for future chemists. This approach not only enhances student engagement and retention but also fosters critical thinking and problem-solving abilities by presenting authentic challenges reflective of real-world scenarios. Through Problem-Based Learning (PBL) initiatives, students collaborate to tackle complex problems, promoting teamwork, innovation, and effective communication—skills imperative for success in both academic and professional realms. Moreover, experiential learning in the chemistry department fosters a sense of responsibility, ethical practice, and sustainability consciousness, equipping students with the mindset and capabilities to address contemporary challenges facing the chemical industry and society at large.

5. Challenges in Implementing Experiential Learning with respect to your department:

Implementing experiential learning in the Chemistry Department may pose several challenges:

- Resource Allocation: Providing adequate resources, including laboratory equipment, materials, and faculty support, to facilitate hands-on experiments and projects can be demanding, particularly for departments with limited budgets.

- Safety Considerations: Ensuring the safety of students and faculty during laboratory work and other hands-on activities is paramount. Strict adherence to safety protocols, proper training, and supervision are essential but can require significant time and effort.
- Time Constraints: Experiential learning often necessitates additional time for preparation, execution, and assessment compared to traditional lecture-based instruction. Finding sufficient time within the academic schedule to accommodate these activities while maintaining curriculum coherence can be challenging.
- Assessment Methods: Developing effective assessment methods to evaluate student learning and performance in experiential learning settings, which may differ from traditional exams or assignments, requires innovation and alignment with learning objectives.
- Student Diversity: Catering to the diverse learning styles, backgrounds, and abilities of students in the department while ensuring equitable access to experiential learning opportunities may require additional instructional strategies and support services.

6. Case Studies and Examples:

In this section, we explore real-world case studies and exemplary instances of successful experiential learning initiatives. By showcasing innovative methodologies and effective practices employed by various institutions, we aim to illustrate the seamless integration of experiential learning into curricula. Through these compelling examples, we glean valuable insights and lessons learned, shedding light on the transformative impact of experiential learning on student engagement, skill development, and academic achievement.

Each semester put two best case studies (i.e. any one EL/PBL)

2023-24
EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. The different evaluation components are introduction (5 marks), methodology (10 marks), analysis (10 marks), and future plan/communication presentation/conclusion(5Marks) total for 30 marks. Case Study – 1 (Complete Process report with Evaluation rubrics) In recent years, the production of methane in small-scale decentralized plants has emerged as a promising solution, both economically and environmentally. Governments worldwide are increasingly prioritizing the expansion of renewable energy sources and the reduction of greenhouse gas emissions, particularly carbon dioxide. Through the methodology of anaerobic digestion, which involves the decomposition of organic materials in the absence of oxygen, significant progress has been made in addressing these challenges. This momentum has been fueled by decades of research and development, leading to successful implementations across various projects. Governmental and non-governmental organizations alike have recognized the potential of methane production from waste materials, especially given the escalating issue of urbanization and the resultant increase in waste generation. Consequently, public demand and

governmental interest in such initiatives have surged. One notable advancement in this field is the utilization of rice husks and soybean cakes to enhance methane production from biogas. Studies have shown that blending these waste materials with spent brewery grains and soft carbonated sludge yields significant improvements in methane output. Achieving the right blend ratio is crucial for optimal results, as it ensures shorter processing times and higher gas yields, thereby maximizing the efficiency of the process.

2022-23

EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. The different evaluation components are introduction (5 marks), methodology (10 marks), analysis (10 marks), and future plan/communication presentation/conclusion(5Marks) total for 30 marks.

Case Study – 1

The prevalence of mass fish mortality and oxygen depletion in closed water bodies underscores a concerning trend with significant ecological implications. While natural factors may contribute, human activities, particularly fertilizer overuse and chemical disposal, exacerbate these issues, leading to hypoxia and subsequent fish kills. The complex and varied conditions make pinpointing exact causes challenging, but the overarching threat to aquatic biodiversity is evident. As fish populations decline, the cascading effects on other species become increasingly pronounced, potentially leading to endangered status or extinction. Moreover, oxygen depletion not only directly impacts fish survival but also disrupts reproduction and long-term ecosystem health. Observations of fish migration to evade anoxic conditions highlight the urgency of addressing this issue. Given the interconnectedness of all organisms within ecosystems, the protection of water bodies from oxygen depletion must be prioritized through concerted efforts and proactive

2021-22

EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. The different evaluation components are introduction (5 marks), methodology (15 marks), analysis (15 marks), and future plan/communication presentation/conclusion(5Marks) total for 40 marks

Case Study – 1

The disposal of nuclear waste presents multifaceted challenges and potential hazards that necessitate careful consideration. While containment methods involving steel and cement chambers are employed to mitigate radiation exposure to the environment, the longevity of radioactive isotopes poses a persistent threat, remaining hazardous for thousands of years. The ease of access to such waste raises concerns about potential misuse for nefarious purposes, highlighting security risks. Moreover, the lack of universally accepted storage solutions underscores ongoing debates surrounding the safe disposal of nuclear waste, with past practices like ocean dumping now widely condemned. Environmental impacts, including the potential for leaks and contamination, further underscore the complexity of nuclear waste management. Despite the benefits of nuclear energy in reducing greenhouse gas emissions, public perception remains skeptical due to lingering concerns about radioactive waste disposal. As efforts continue to explore alternative

energy sources, addressing the challenges associated with nuclear waste disposal remains paramount in ensuring environmental and public safety.

2020-21

EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. The different evaluation components are Relevance of the topic (15 marks), Literature review (15 marks), Objective (10 marks), and future plan/communication presentation/conclusion (10 Marks) total for 50 marks

Case Study – 1
This project highlights the critical health risks posed by inorganic contaminants in drinking water, underscoring the urgency of addressing this issue. Despite the severe illnesses such as blue-baby syndrome associated with excessive nitrate ingestion, there is a concerning lack of awareness among the public. Symptoms often manifest only after prolonged exposure, leading to complacency among affected communities. To effectively address this challenge, the project outlines a risk assessment framework focusing on exposure likelihood and health hazards posed by specific contaminants. Methods such as Health-Based Targets, identification of key contaminants, and surveillance are proposed to guide decision-making and prioritize remediation efforts. By employing these methodologies, stakeholders can make informed decisions to safeguard public health and mitigate the adverse impacts of inorganic contaminants in drinking water.

2019-20

EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. The different evaluation components are Relevance of the topic (15 marks), Literature review (15 marks), Objective (10 marks), and future plan/communication presentation/conclusion(10 Marks) total for 50 marks
Case Study – 1
The variability of water quality across different locations and over time underscores the need for reliable water quality indices to assess and monitor water sources effectively. While the concept of an appropriate water quality varies depending on local conditions and intended use, indices play a crucial role in simplifying complex water quality data into easily understandable scores. Despite challenges in developing universally applicable indices, researchers have created region and source-specific indices such as NSF WQI, CCME WQI, and WQI, tailored to surface water quality assessment. However, there is a gap in groundwater quality index development. These indices aid in assessing water quality, facilitating communication with stakeholders, and simplifying complex data for decision-making. Yet, limitations exist, such as the omission of organic pollutants due to cost constraints and the need for continuous monitoring to detect changes and ensure public health. Efforts to develop more universal and comprehensive water quality indices are ongoing to enhance their usability and adoption by water agencies and managers globally.

2018-19

EXPERIENTIAL LEARNING: Students will be evaluated for their creativity and practical implementation of the problem. The different evaluation components are Relevance of the topic (15 marks), Literature review (15 marks), Objective

(10 marks), and future plan/communication presentation/conclusion(10 Marks) total for 50 marks

Case Study – 1
In addressing pollution from diffuse sources, such as highway runoff, adopting an integrated approach is paramount. Highway runoff water characteristics play a crucial role in assessing environmental impacts and formulating effective treatment strategies. Currently, infiltration stands as a common practice for treating highway runoff water, emphasizing the importance of understanding its nature and legal obligations. Both source management and control measures contribute to pollution control, with examples including transportation and land-use planning, as well as structural interventions like vegetative practices, ponds, infiltration methods, wetlands, and filters. Among these, the bio slope method emerges as a notable strategy for controlling highway runoff, leveraging natural vegetation and soil to capture and treat pollutants. However, while offering promising benefits, such as enhanced water quality and aesthetic appeal, the bio slope method also presents challenges, such as maintenance requirements and site-specific considerations. Thus, a comprehensive understanding of the strengths and weaknesses of various control methods is essential for implementing effective and sustainable pollution mitigation measures in highway runoff management.

7. Recommendations for Integrating Experiential Learning:

To enhance the teaching practices within the Chemistry Department, integrating experiential learning is paramount. By incorporating hands-on laboratory sessions and real-world applications of chemistry into the curriculum, students can actively engage with chemical concepts and understand their practical significance. Faculty training programs should focus on designing effective experiments and fostering student-centered learning approaches. Assessment methods should encompass diverse strategies to evaluate theoretical understanding and practical skills. Additionally, facilitating research opportunities and interdisciplinary collaboration can enrich students' learning experiences, preparing them for successful careers in chemistry and related fields..

8. Outcome & Conclusion:

The report culminates by distilling critical findings and insights garnered from the examination of experiential learning methodologies, emphasizing their pivotal role in cultivating student success within engineering education. It underscores the transformative impact of experiential learning on student engagement, retention, and mastery of key concepts. Moreover, the report advocates for sustained initiatives aimed at advancing the integration of experiential learning practices across engineering curricula. By championing experiential learning, educators and institutions can

empower students to develop essential skills, enhance their problem-solving abilities, and prepare them for the challenges of a rapidly evolving technological landscape.

Upload all the EL/PBL reports of all the batches years wise in the following link:

https://drive.google.com/drive/folders/12Bl-3GMcanxaplN87IX-8t8f7107Au76

Course Wise Subtopic information need to be filled:

List of Students

SL NO.	USN	NAME OF THE STUDENT	Topic of EL / PBL

2023-24

Roll No	USN	Name of the student	Topic
1	RVCE23BAI068	AADITEY CHALVA	Water Quality Monitoring System
2	RVCE23BAI016	AANISH KHAN	FIRE & GAS ACCIDENT AVOIDER SYSTEM
3	RVCE23BAI100	ABHAYACHANDRA C	AUTONOMOUS POISONOUS GAS SENSOR IMPLEMENTED THROUGH RC CAR
4	RVCE23BAI113	ABHILASH MAIYA Y	DEVELOPMENT OF ALCOHOL SENSOR
5	RVCE23BAI013	ADHEESH MUDGAL	Obstruction avoiding robotic vehicle
6	RVCE23BAI108	ADITHYA ACHARYA U	MILK PURITY TESTER
7	RVCE23BAI043	ADITYA KAUSHIK	MILK PURITY TESTER
8	RVCE23BAI051	ADITYA RANJAN	Calculator with methods for special operations
9	RVCE23BAI097	ADITYA TRIPATHI	Calculator with methods for special operations
10	RVCE23BAI035	AFFAN YASIR	COMPREHENSIVE ENVIRONMENT PURITY DETECTOR
11	RVCE23BAI007	AHIBHRUTH A	DEVELOPMENT OF ALCOHOL SENSOR
12	RVCE23BAI018	ALROY DEON SALDANHA	COMPREHENSIVE ENVIRONMENT PURITY DETECTOR
13	RVCE23BAI028	AMOGH A P	DEVELOPMENT OF ALCOHOL SENSOR
14	RVCE23BAI020	AMUDHAN S	Design of visible spectrometer using RGB light source for detection of ions
15	RVCE23BAI101	ANAMAY MITTAL	Water Quality Monitoring System
16	RVCE23BAI008	ANIKA VIDYA RAGHAV	MINI WEATHER STATION
17	RVCE23BAI064	ANIKET R T	DEVELOPMENT OF ALCOHOL SENSOR

18	RVCE23BAI052	ANJALI SURESH KALARIKKAL	DEVELOPMENT OF ALCOHOL SENSOR
19	RVCE23BAI033	ANUPAMA	MINI WEATHER STATION
20	RVCE23BAI023	APOORVA KRISHNA P	Design of visible spectrometer using RGB light source for detection of ions
21	RVCE23BAI048	ARINDAM GUPTA	FIRE & GAS ACCIDENT AVOIDER SYSTEM
22	RVCE23BAI104	ASHISH R BIRADAR	Effecient Energy Hub
23	RVCE23BAI081	B VINAYAKA AILI	PRODUCTION OF METALOXIDE NANOPARTICLES FOR SENSOR APPLICATION
24	RVCE23BAI090	BALLUPET PRAKASH MONAL	HEAVY METAL DETECTION USING METAL OXIDE NANOMATERIALS
25	RVCE23BAI112	BHAVIN BIJU	AUTOMATIC WASTE SEGREGATOR
26	RVCE23BAI034	BHEEMARAJ DODDAMANI	AMMONIA DETECTION KIT
27	RVCE23BAI042	BIRADAR ABHISHEK MALLIKARJUN	MILK PURITY TESTER
28	RVCE23BAI078	DAKSH CHAUHAN	AUTOMATIC WASTE SEGREGATOR
29	RVCE23BAI055	DHAKSHA MUTHUKUMARAN	Design of visible spectrometer using RGB light source for detection of ions
30	RVCE23BAI038	DHANUSH K M	PRODUCTION OF METALOXIDE NANOPARTICLES FOR SENSOR APPLICATION
31	RVCE23BAI117	DHANUSH R MOOLEMANE	HEAVY METAL DETECTION USING METAL OXIDE NANOMATERIALS
32	RVCE23BAI096	DHRUV PATANKAR	AUTONOMOUS POISONOUS GAS SENSOR IMPLEMENTED THROUGH RC CAR
33	RVCE23BAI067	DIPTANSHU KUMAR	Calculator with methods for special operations
34	RVCE23BAI054	GARV AGARWALLA	DESIGN OF TEMPERATURE STAGE
35	RVCE23BAI029	GNANENDRA NAIDU N	Design of visible spectrometer using RGB light source for detection of ions
36	RVCE23BAI111	HEMA UMESH HEGDE	HEAVY METAL DETECTION USING METAL OXIDE NANOMATERIALS
37	RVCE23BAI118	ISHAN SHEKHAR PRASAD	AUTONOMOUS POISONOUS GAS SENSOR IMPLEMENTED THROUGH RC CAR
38	RVCE23BAI021	ISHITA GOYAL	AUTOMATIC WASTE SEGREGATOR
39	RVCE23BAI057	JOSEPH REJO MATHEW	Effecient Energy Hub
40	RVCE23BAI066	JUNED BABA D HUNASHIMARAD	Obstruction avoiding robotic vehicle
41	RVCE23BAI077	K S SHAMITH RAJ	Obstruction avoiding robotic vehicle
42	RVCE23BAI061	KARNATI LAKSHMI SREE	MINI WEATHER STATION

43	RVCE23BAI019	KASHISH GUPTA	FIRE & GAS ACCIDENT AVOIDER SYSTEM
44	RVCE23BAI060	KAVYA JAIN	FIRE & GAS ACCIDENT AVOIDER SYSTEM
45	RVCE23BAI089	KEERTHI V C	DESIGN OF TEMPERATURE STAGE
46	RVCE23BAI085	KUMAR YASH	COMPREHENSIVE ENVIRONMENT PURITY DETECTOR
47	RVCE23BAI102	KUSHAL S GOWDA	Effecient Energy Hub
48	RVCE23BAI119	MACHANI BHANU TEJA	AMMONIA DETECTION KIT
49	RVCE23BAI004	MAHESHKUMAR	AMMONIA DETECTION KIT
50	RVCE23BAI003	MANOJ	HEAVY METAL DETECTION USING METAL OXIDE NANOMATERIALS
51	RVCE23BAI040	MANVITH S	Obstruction avoiding robotic vehicle
52	RVCE23BAI036	MAYUR KUMAR K N	DESIGN OF TEMPERATURE STAGE
53	RVCE23BAI122	MEDHA SANKETH	AUTONOMOUS POISONOUS GAS SENSOR IMPLEMENTED THROUGH RC CAR
54	RVCE23BAI086	MOHIT M	AMMONIA DETECTION KIT
55	RVCE23BAI105	MOHITH V	PRODUCTION OF METALOXIDE NANOPARTICLES FOR SENSOR APPLICATION
56	RVCE23BAI044	MONIL PALAK MEHTA	MILK PURITY TESTER
57	RVCE23BAI072	MOWIN S	AMMONIA DETECTION KIT
58	RVCE23BAI127	HARSH AGRAWAL	Water Quality Monitoring System
59	RVCE23BAI074	MYLAVARAM PHANIKUMAR SAHASRA	PRODUCTION OF METALOXIDE NANOPARTICLES FOR SENSOR APPLICATION
60	RVCE23BAI002	N MOHAMMED AKHIL	COMPREHENSIVE ENVIRONMENT PURITY DETECTOR
61	RVCE23BAI106	N YAMINI	DESIGN OF TEMPERATURE STAGE
62	RVCE23BAI039	NANDINI C	MINI WEATHER STATION
63	RVCE23BAI069	NANDINI R ARAVINDAKSHAN	AUTOMATIC WASTE SEGREGATOR

2022-23

Roll No	USN	Name of the student	Topic
1	RVCE22BCY009	AARYA PRASAD PAI	Solar Powered car
2	RVCE22BCY026	ABHISHEK SARAFF	Colorimetry, Flame photometry, viscosity
3	RVCE22BCY049	ABHYUDAY SINGH	Regenerative braking in cars

4	RVCE22BCY034	ADARSH SHRIVASTAVA	IoT based food spoilage detection
5	RVCE22BCY007	ADITYA M BETHUR	e-skin, e-pill, e-shirt-sensors
6	RVCE22BCY036	ADITYA SHARMA	Hydrogen fuel cells
7	RVCE22BCY001	ADITYA SURESH NAIR	Smart Intelligent System for transport
8	RVCE22BCY015	AISHWARYA GITE	ICT tools process and analysis
9	RVCE22BCY003	AMOGH A JOSHI	Power generation using Speed Brakers
10	RVCE22BCY065	ANKITHA V	Green Computing
11	RVCE22BCY057	APOORVA C S	IoT based food spoilage detection
12	RVCE22BCY010	ARMAN SINGH BHATI	Smart Agriculture
13	RVCE22BCY064	ARUN	Smart Intelligent System for transport
14	RVCE22BCY017	ARYAN CHATURVEDI	Bio-sensors & AI in agriculture
15	RVCE22BCY027	ASHUTOSH JOSHI	Solar Powered car
16	RVCE22BCY059	AVANI B N	AI based battery operated cars
17	RVCE22BCY043	BANDARU JNYANADEEP	Regenerative braking in cars
18	RVCE22BCY038	BHAKTI VYAS	Phototropic solar flower
19	RVCE22BCY031	BHUMI KIRTIKUMAR LAKHANI	e-skin, e-pill, e-shirt-sensors
20	RVCE22BCY058	BIPIN RAJ C	Hydrogen fuel cells
21	RVCE22BCY024	BORU HARSHAVARDHAN REDDY	Smart Intelligent System for transport
22	RVCE22BCY046	C A INDRASENA NAIDU	Lithium ion battery recycling –climatic changes and its effects
23	RVCE22BCY061	DEEKSHITH V	Power generation using Speed Brakers
24	RVCE22BCY054	DHANYASHREE KRISHNAMURTHY	Green Computing
25	RVCE22BCY005	DHANYASHREE R	IoT based food spoilage detection
26	RVCE22BCY052	DHARMIK J RAI	Smart Agriculture
27	RVCE22BCY053	H ETHINDHAR	Bio-sensors & AI in agriculture
28	RVCE22BCY055	JAYANTH SHARMA	Bio-sensors & AI in agriculture
29	RVCE22BCY037	JEEL SHAH	Bio-sensors & AI in agriculture
30	RVCE22BCY033	JIGYASA AGRAWAL	Colorimetry, Flame photometry, viscosity
31	RVCE22BCY004	JOEL STEPHEN MATHEW	Regenerative braking in cars
32	RVCE22BCY056	KARTHIK NAGESH DEVADIGA	Phototropic solar flower
33	RVCE22BCY040	KHUSHAL A	e-skin, e-pill, e-shirt-sensors
34	RVCE22BCY006	KISHAN KARTHIK S	Hydrogen fuel cells
35	RVCE22BCY041	KISHORE A	Smart Intelligent System for transport

36	RVCE22BCY019	MAHAMMAD RIZWAN	Lithium ion battery recycling –climatic changes and its effects
37	RVCE22BCY044	MALLIKARJUN M	Power generation using Speed Brakers
38	RVCE22BCY030	MAYANK PRITWANI	Green Computing
39	RVCE22BCY008	MEHAR KULKARNI	IoT based food spoilage detection
40	RVCE22BCY050	MERYN BABU	pKa, Potentiometry, Viscosity, Cu estimation
41	RVCE22BCY021	MOHAMMED AMMAR MANSOOR	Smart Agriculture
42	RVCE22BCY022	NIVEDITHA NALABOLU	Bio-sensors & AI in agriculture
43	RVCE22BCY045	PARAMESH N T	Solar Powered car
44	RVCE22BCY063	PRABU JAYANT	AI based battery operated cars
45	RVCE22BCY018	PRAJWAL U	Regenerative braking in cars
46	RVCE22BCY060	PRATHICA SHETTY M	Phototropic solar flower
47	RVCE22BCY029	RONIT RANJAN	e-skin, e-pill, e-shirt-sensors
48	RVCE22BCY051	S JEEVAN	Hydrogen fuel cells
49	RVCE22BCY062	SAGARI ARAVIND	ICT tools process and analysis
50	RVCE22BCY047	SANTHOSH KUMAR L	ICT tools process and analysis
51	RVCE22BCY025	SARTHAK GUPTA	Flamephotometry,colorimetry,conductometry, chemistry Handbook
52	RVCE22BCY020	SATHWIK T S	Green Computing
53	RVCE22BCY028	SUDHANSHU SHEKHAR	IoT based food spoilage detection
54	RVCE22BCY023	SUHAN M K	Smart Agriculture
55	RVCE22BCY012	SURYANSH KUMAR	IoT based food spoilage detection
56	RVCE22BCY039	SWAR LODAYA	Bio-sensors & AI in agriculture
57	RVCE22BCY032	TANISHA AGARWAL	Solar Powered car
58	RVCE22BCY042	TEJAS NESWI	AI based battery operated cars
59	RVCE22BCY048	VARSHITH Y	ICT tools process and analysis
60	RVCE22BCY035	VARUN AGARWAL	Phototropic solar flower
61	RVCE22BCY002	VENKAT SREYAS YELISETTY	e-skin, e-pill, e-shirt-sensors
62	RVCE22BCY013	YASHIKA PANJWANI	Hydrogen fuel cells
63	RVCE22BCY066	YUVARAJ KUMAR	Smart Intelligent System for transport

2021-22

Roll No	USN	Name of the student	Topic
1	RVCE21BAS001	ASIM ASGAR BAQIR	Self healing polymers for electronic skin – a case study
2	RVCE21BAS002	SADIQ ALI MIR	Use of carbon based materials as electrode in advanced battery technology – a case study

3	RVCE21BAS003	KRUSH MACHHI	Polymer Nano composite films for sensing applications – a case study
4	RVCE21BAS006	AKASH P	Conjugated polymers as gas sensors – a case study
5	RVCE21BAS008	S NIKHIL BHARADWAJ	Conjugated polymers as gas sensors – a case study
6	RVCE21BAS009	ANAGHA UDUPA	Biometric sensor/receptors for medical, environmental and food analysis- a case study
7	RVCE21BAS011	PRAKHYATH Y B	Organic materials as super capacitor electrodes- a case study
8	RVCE21BAS013	SREE VALLI T S	Biometric sensor/receptors for medical, environmental and food analysis- a case study
9	RVCE21BAS014	LAKSHMI MANASA C N	Biometric sensor/receptors for medical, environmental and food analysis- a case study
10	RVCE21BAS015	KISHOR A	Use of carbon based materials as electrode in advanced battery technology – a case study
11	RVCE21BAS016	ESHWARI B N	Use of carbon based materials as electrode in advanced battery technology – a case study
12	RVCE21BAS017	MOHAMMED UMAR	Self healing polymers for electronic skin – a case study
13	RVCE21BAS018	SIDDHANTH S RAMASWAMY	Organic materials as super capacitor electrodes- a case study
14	RVCE21BAS019	RISHAB SATISH	Storage of hydrogen using metal organic framework – a case study
15	RVCE21BAS020	AAMEGH VERMA	Self healing polymers for electronic skin – a case study
16	RVCE21BAS021	CHYAWAN CHANDRASHEKAR	Storage of hydrogen using metal organic framework – a case study
17	RVCE21BAS022	ABIN BIJU	Self healing polymers for electronic skin – a case study
18	RVCE21BAS023	PRASAD VENKAT PRAVITH SINGH	Polymer Nano composite films for sensing applications – a case study
19	RVCE21BAS024	JEEVITHA J L	Estimation of anions by UV-Visible spectroscopy- a case study
20	RVCE21BAS025	M RAGHUVANSH	Estimation of anions by UV-Visible spectroscopy- a case study
21	RVCE21BAS026	TANVIR ISLAM	Advancement in nanofiltration membranes- a case study
22	RVCE21BAS027	VISHAL HUGAR	Storage of hydrogen using metal organic framework – a case study
23	RVCE21BAS028	RATHNAKAR D	Advancement in nanofiltration membranes- a case study
24	RVCE21BAS029	MOHAMMED HIFZAAN	Organic materials as super capacitor electrodes- a case study
25	RVCE21BAS030	NEMANI SATYA SRIKAR	Polymer Nano composite films for sensing applications – a case study
26	RVCE21BAS031	INCHARA N K	Estimation of anions by UV-Visible spectroscopy- a case study

27	RVCE21BAS032	GAUTAM M	Conjugated polymers as gas sensors – a case study
28	RVCE21BAS034	AVINASH	Green adsorbents for water purification - a case study
29	RVCE21BAS035	GREEKSHITH MAHESH BABU	Storage of hydrogen using metal organic framework – a case study
30	RVCE21BAS036	NAUSHIK MAURYA	Use of inorganic nano materials for water splitting -a case study
31	RVCE21BAS037	ANISHA BHATTACHARYA	Biometric sensor/receptors for medical, environmental and food analysis- a case study
32	RVCE21BAS038	SOLOMON SUHAS D COSTA	Green adsorbents for water purification - a case study
33	RVCE21BAS040	KESHAV JINDAL	Green adsorbents for water purification - a case study
34	RVCE21BAS041	PRATIK B MATT	Estimation of anions by UV-Visible spectroscopy- a case study
35	RVCE21BAS042	SATEJ PATIL	Role of Molecular modeling in drug discovery- a case study
36	RVCE21BAS043	KARKERA SHARANYA GIRISH	Organic materials as super capacitor electrodes- a case study
37	RVCE21BAS044	SHAIFALI ARORA	Heavy metal contamination in drinking water-a case study
38	RVCE21BAS045	SREEHARSH U	Photocatalytic degradation of dyes using nano materials – a case study
39	RVCE21BAS046	IRRI HOMA KRISHNAA ANWITA	Advancement in nanofiltration membranes- a case study
40	RVCE21BAS047	OM KIRITBHAI DAXINI	Heavy metal contamination in drinking water-a case study
41	RVCE21BAS048	UTSAV MADHVENDRA MEHTA	Hythane an alternative fuel – a case study
42	RVCE21BAS049	SOHAM BACCHUWAR	Advancement in nanofiltration membranes- a case study
43	RVCE21BAS050	NIVEDITA Y	Advancement in nanofiltration membranes- a case study
44	RVCE21BAS052	PRAJWAL N	Hythane an alternative fuel – a case study
45	RVCE21BAS053	ABYAN RAIDH T	Conjugated polymers as gas sensors – a case study
46	RVCE21BAS054	AMBUJA JEETENDRA BAMANE	Heavy metal contamination in drinking water-a case study
47	RVCE21BAS055	NAGEGOWDA R S	Role of Molecular modeling in drug discovery- a case study
48	RVCE21BAS056	JAGADEESH VIJAPUR	Use of inorganic nano materials for water splitting -a case study
49	RVCE21BAS057	ADITHYA D R	Hythane an alternative fuel – a case study
50	RVCE21BAS059	G R TARUN	Hythane an alternative fuel – a case study

51	RVCE21BAS060	VEERABHADRAYYA C ROOGI	Photocatalytic degradation of dyes using nano materials – a case study
52	RVCE21BAS061	PARIKSHITH P M	Photocatalytic degradation of dyes using nano materials – a case study
53	RVCE21BAS062	PRAJVAL B GOWDA	Photocatalytic degradation of dyes using nano materials – a case study
54	RVCE21BAS063	ANUBHUTI B C MISHRA	Heavy metal contamination in drinking water-a case study
55	RVCE21BAS065	ROBIN RICKY J B	Use of carbon based materials as electrode in advanced battery technology – a case study
56	RVCE21BAS066	ANANTA KAVYA	Advancement in nanofiltration membranes- a case study
57	RVCE21BAS067	SIDDHARTH VARSHNEY	Role of Molecular modeling in drug discovery- a case study

2020-21

Roll No	USN	Name of the student	Topic
1	RVCE20BCH001	HARISH N	Automated railway crossing
2	RVCE20BCH002	SUSHMITA JHA	Energy harvesting using piezo electric materials
3	RVCE20BCH003	C PUNYASHREE	Smart energy projects
4	RVCE20BCH004	BHOOMIKA R HOLLA	Dye sensitized solar cells
5	RVCE20BCH005	MIHIR PATIL	Automated railway crossing
6	RVCE20BCH006	AMEYA KAMATH	Automated railway crossing
7	RVCE20BCH007	JANANI GAYATHRI M R	Nano technology in agriculture
8	RVCE20BCH008	SHRIYASH RAJU RANGANEKAR	Smart energy projects
9	RVCE20BCH009	VARSHA GURURAJ	Energy harvesting using piezo electric materials
10	RVCE20BCH010	GAGANA VELUR	Dye sensitized solar cells
11	RVCE20BCH011	DHANUSH KOTE M	Automatic solar tracker
12	RVCE20BCH012	HIMAMSHU G	Automatic solar tracker
13	RVCE20BCH013	S DILIP KUMAR	Home automation using IOT
14	RVCE20BCH014	V AKSHAY HARIHARAN	Automatic solar tracker
15	RVCE20BCH015	SWATI NARAYAN MIRJI	Energy harvesting using piezo electric materials
16	RVCE20BCH016	BHAVANA SARAVANA	Mobile robotics
17	RVCE20BCH018	NOEL LESLEY A K NARRAIN	Automated railway crossing
18	RVCE20BCH019	ANANTA DUTTA	Nano technology in agriculture
19	RVCE20BCH020	SRIHARI G	Smart energy projects

20	RVCE20BCH021	ANKIT KUMAR CHOUDHRY	Home automation using IOT
21	RVCE20BCH022	PREKSHA S M	Home automation
22	RVCE20BCH023	DEEPAK	Home automation
23	RVCE20BCH024	CHETHAN YADAV L	Automatic solar tracker
24	RVCE20BCH025	MOHAMMED AFZAN	Hand gestured robots
25	RVCE20BCH026	ANAGHA M	Hand gestured robots
26	RVCE20BCH027	SUMITH RUDRAPUR	Mobile robotics
27	RVCE20BCH028	SINDHU S RAJ	Smart Campus
28	RVCE20BCH029	KIRAN KUMAR NAYAKA V S	Home automation using
29	RVCE20BCH031	DHANYATHA D P	Mobile robotics
30	RVCE20BCH033	KRITI AGARWAL	Hand gestured robots
31	RVCE20BCH034	SAURAV RAJ SATSANGI	Smart Campus
32	RVCE20BCH035	PRANJAL MISHRA	Home automation using IOT
33	RVCE20BCH036	DHIVYADHARSHINI N	Smart Campus
34	RVCE20BCH037	SRUSTI K	Smart Campus
35	RVCE20BCH038	BHUMIKA G V	Mobile robotics
36	RVCE20BCH039	SHAMBHAVI SHREE	Hand gestured robots
37	RVCE20BCH040	SAKSHI VERMA	Hand gestured robots
38	RVCE20BCH041	PRIYANKA B	Smart Campus
39	RVCE20BCH042	DARSHAN PRAKASH P	Home automation
40	RVCE20BCH043	GAURAV SARKAR	Home automation using IOT
41	RVCE20BCH044	MUNDHE NIKITA	Nano technology in agriculture

2019-20

Academic year- 2019-2020			
Roll No	USN	Name of the student	Topic
1	1RV18ME121	VINAYAK SHREE TUSHAR	Band gap engineering in conjugated polymers
2	1RV19ME028	AYAN ATAL	Nano technology in food science
3	1RV19ME095	SAMPREET DINAKAR NAYAK	Carbon Nanotubes and their composites with Polymers
4	1RV19ME034	BURLE NAGA SAI KRISHNA VAMSI	DESALINATION AND WATER TREATMENT
5	1RV19ME083	RAHUL SATHEESH NAIR	DESALINATION AND WATER TREATMENT
6	1RV19ME033	BHUVAN KOULAGI	APPLICATION OF TITANIUM DIOXIDE IN
7	1RV19ME009	AKASH A G	SENSORS AND ENERGY HARVESTING

8	1RV19ME071	NACHIKETHA B N	Application of conducting polymers in biosensors
9	1RV19ME036	C MANJUNATH	Biodegradable polymers
10	1RV19ME012	AMAN KUMAR AGARWALA	Nanomaterials for energy storage devices.
11	1RV19ME032	BHARGAV N	Usage of nanomaterials in cancer therapy
12	1RV19ME059	KARTHIKSAI SRIDHAR	Applications of nanomaterial in Wound Treatment
13	1RV19ME006	ADHIL CHOUDHARY	Impact of Nanostructured Materials on organic solar cell
14	1RV19ME084	RAKSHITH A PUTTASWAMY	Nanomaterials in corrosion studies
15	1RV19ME025	ARYAN G S	Nanomaterials for environmental applications
16	1RV19ME061	KAUSHIK S	Nano Technology For Data Storage and Applications
17	1RV19ME021	ARIF GULLOLI	Applications of Polymers in packaging industry
18	1RV19ME047	GAGAN K	Production of biofuel from biomass waste
19	1RV19ME085	RESHI MAGADA	conductometric titration
20	1RV19ME068	MAYAPPA MANVAR	Nanomaterials as storage materials
21	1RV19ME048	GURUGANESH MADDODI	Role of nano-technology in field of agriculture
22	1RV19ME055	JEEVAN RAJ	DEVELOPMENT OF SUPER CAPACITOR BASED ON POLYMERS
23	1RV19ME018	ANURAAG A	Sensing of Pesticides in Food products
24	1RV19ME041	DARSHAN M N	Assignment missing only presentation
25	1RV19ME050	GURUSHARAN GOGGA	Role of Nanomaterials in Wastewater Treatment
26	1RV19ME058	KALASH S SHETTY	UV Spectroscopy
27	1RV19ME082	R ROHITH ANNAPORANAM	Applications of nanotechnology in sports equipment
28	1RV19ME115	UTKARSH GOENKA	Nanotechnology battery companies
29	1RV19ME005	ABHISHEK SHETTY	CNTs: Different types, functionalization and literature survey
30	1RV19ME069	MEETH M PAREKH	Low band gap organic materials for solar cells
31	1RV19ME017	ANKITH H R	Characterization techniques of nano materials
32	1RV19ME073	NEERAJ SHRIGIRI	NANOTECHNOLOGY IN FUEL CELLS
33	1RV19ME043	DESHMUKH SIDDHESH SUDHIR	Characterization techniques of nano materials

34	1RV19ME077	PRANAV A	Electroplating
35	1RV19ME081	PURVIK V GOWDA	Organic Dye sensitized solar cells
36	1RV19ME110	SUHAN MASCARENHAS	Organic coatings to prevent corrosion
37	1RV19ME075	OM SAI RUKVITH SUNKU	Graphene: Synthesis, properties and applications
38	1RV19ME053	HRISHIKESH DAS	Application of radioactive isotopes in medicine
39	1RV19ME027	ASHWIN R NAIR	Functionalized carbon nanotubes: Synthesis and their application
40	1RV19ME014	ANAND B PATIL	Purification of water using RO membranes
41	1RV19ME007	ADITYA	Methanol economy
42	1RV19ME002	ABHISHEK ALVA	Electroplating and its applications
43	1RV19ME080	PRATIK SEETHARAM	Electroplating
44	1RV19ME097	SATHISH M	Corrosion protection
45	1RV19ME037	CHAMAN S	Preparation and application of polyaniline
46	1RV19ME062	KRISHNA M GAVALI	Polymer composite
47	1RV19ME118	VENKATANARASIMHAG HEGDE	CNTs: Different types, functionalization and literature survey
48	1RV19ME052	HARSHA NANDA GOWDA N	Solution combustion synthesis
49	1RV19ME114	ULLAS GOWDA G K	Application of zinc dioxide in sensors and energy harvesting.
50	1RV19ME039	D PANKAJ	Biodegradable polymers: Synthesis properties and applications
51	1RV19ME015	ANANYA U ACHAR	Nano materials for electronic Gadgets
52	1RV19ME042	DEEKSHA BHARATH	Applications of nanotechnology in medicinal filed
53	1RV19ME065	MALLIKARJUN DESAI	Ion selective electrodes
54	1RV19ME102	SHREYAS LAXMAN JOGIN	Methanol economy
55	1RV19ME064	MALIK KALANDAR MULLA	Application of polymers in defense
56	1RV19ME104	SIDDHARTH GUPTA	Conducting polymers
57	1RV19ME054	ISHAAN PANDIT	Fullerene based systems for photovoltaic applications
58	1RV19ME079	PRATIK HANDI	Solar Cells Fabrication Technologies
59	1RV19ME106	SOHEL	Nano materials in polymer synthesis
60	1RV19ME111	TANUMAYYEE D BADDUVVANDAA	Recent progress in Polymer solar cell

61	1RV19ME020	ANVESHA YADAV	Nano materials in sesning applications
62	1RV19ME112	TARINI ATHICOM	Applications of nanomaterials in every day life
63	1RV19ME091	SAANVI SINGH NARWAL	Biofuels from sewage sludge
64	1RV19ME072	NAYANA T S	CARBON FIBRE AND ITS APPLICATIONS
65	1RV18ME022	ANURAAG AAYUSH	Nanomaterials in organic thin film transistors
66	1RV18ME018	ANIRUDH ARUN DURG	Applications of biodegradable polymer
67	1RV18ME061	MANI SAINATH REDDY	Photo-conducting polymers
68	1RV17ME031	SUKRIT THAAKARAN	Photo-conducting polymers

2018-19

Roll No	USN	Name of the student	Topic
1	1RV18EC083	MADHUMITH A T G	Water purification by using Adsorbents
2	1RV18EC084	MANOJ Y	Green adsorbents from solid wastes for water purification application
3	1RV18EC085	MOHAN M S	Catalysts for water microbial purification
4	1RV18EC086	MOHIT B M	Water purification module with electro dialysis technology and solar energy
5	1RV18EC087	MUNAGA SRI HARSHITHA	Oil-Water separation and water purification
6	1RV18EC089	NACHIKETH GONDA	Recent advances of nanomaterial-based membrane for water purification
7	1RV18EC090	NAMAN ANTONY MENEZES	Polysulfone based membrane for water purification
8	1RV18EC092	NANDESH GOUDAR	Use of Carbon nanotube based membranes for water purification
9	1RV18EC094	NAVYASHREE B R	Drinking water purification system using TiO2 solar reactor
10	1RV18EC096	NEHA DAOO	Nanotechnology for drinking water purification
11	1RV18EC097	NIHAR K M	Removal of heavy metals from waste water
12	1RV18EC098	NIKHIL GUPTA	Polymer membranes reinforced with carbon-based nano materials for water purification
13	1RV18EC099	NIKHIL S K	Chitosan based membranes: its use for water purification
14	1RV18EC100	NIKITA SIRI N C	photo-catalytic membranes for water purification using solar radiation
15	1RV18EC101	NISCHITHA S	Water Purification in Micro-magnetofluidic Devices
16	1RV18EC102	NISHA GADDIKERI	Historical Perspectives on Water Purification
17	1RV18EC103	OORJA PAL	Self-cleaning membranes for water purification

18	1RV18 EC104	P CHANDAN KUMAR	Use of graphene oxide in water purification
19	1RV18 EC105	PARTH RAJANISH DIXIT	Multi-walled carbon nanotube membranes for water purification
20	1RV18 EC107	PATEL SUSHAN ANILKUMAR	Microorganisms: new trends in environment-friendly and energy-saving water purification
21	1RV18 EC108	PAVANKALYA N D S	Nanotechnology for drinking water purification
22	1RV18 EC109	PEDDAMALL U RAKESH REDDY	Water purification using magnetic assistance
23	1RV18 EC110	PHALGUN G K	Recent advances in cellulose based membranes for water purification
24	1RV18 EC111	PRAJWAL B RAJ	Application of tidal energy for purification in fresh water
25	1RV18 EC112	PRAJWAL BALI	Gold nanoparticles: advances in water purification approaches
26	1RV18 EC113	PRAMOD PATIL G S	System for solar water purification
27	1RV18 EC114	PRASUN AAKASH	Use of aluminium and chemical compounds chemical Additives for Enhancement of Filtration
28	1RV18 EC115	PRATAP P VANGOL	Cartridge filter, Tilting Pan Filter, and Table Filter for water purifications
29	1RV18 EC117	PREETI CHAVAN	Granular Media Filtration: Sand Filters, slow sand filtration and rapid sand filtration
30	1RV18 EC118	PRITHVI REDDY	Sedimentation: Gravity Sedimentation, Rectangular Sedimentation Tanks and air Flotation Systems
31	1RV18 EC120	PRIYANKA R V	Membrane separation process for purification of waste water : Electro dialysis
32	1RV18 EC121	R VIBHA NARAYAN	Membrane separation process for purification of waste water: Ultrafiltration
33	1RV18 EC122	RAGHAV RAWAT	Membrane separation process for purification of waste water: Microfiltration
34	1RV18 EC123	RAGHAVEND RA P R	Membrane separation process for purification of waste water: Nano filtration
35	1RV18 EC124	RAHUL CHIKKODI	Membrane separation process for purification of waste water: Reverse Osmosis
36	1RV18 EC125	RAHUL PINNY	Ion exchange process of purification of water
37	1RV18 EC128	RAJNANDINI DUBEY	Water Sterilization: Ozonation, Ultraviolet Radiation
38	1RV18 EC129	RAKSHITHA SRINATH	Water Sterilization: Biology of Aquatic Systems, Disinfection by Chlorination
39	1RV18 EC130	RISHABH SRIVASTAVA	Sludge treatment : Sludge dewatering, volume reduction, and activated sludge process
40	1RV18 EC131	ROHAN V K	Tertiary treatment of water purification
41	1RV18 EC132	ROUNAK KUMAR CHAURASIA	Bio-fouling of Water Treatment Membranes
42	1RV18 EC135	S TANMAI	Use of Nano technology in water purification

43	1RV18EC136	SAHARSHA N R	Dye degradation process in waste water purification
44	1RV18EC137	SAI CHARAN VIKRANTH PALURI	Water pollution by industrial revolution
45	1RV18EC139	SAI PRANAV G	Synthesis of polymeric micro-particles for water purification technique
46	1RV18EC141	SANDESH PADIYAR	Removal of heavy metals/ions from waste water
47	1RV18EC142	SANIKA PRAKASH	polymeric Nano-composite membranes for water purification
48	1RV18EC143	SATYA PRAKASH PANDEY	Sedimentation, clarification, flotation, and coalescence in waste water treatment.
49	1RV18EC144	SAURAV KUMAR	Management of Water Control Systems
50	1RV18EC145	SHARAD	Waste water monitoring devices: Sensors for Monitoring Chemical, Biological, and Radiological Contamination
51	1RV18EC147	SHIRAG SHIVAKUMAR	Waste water monitoring devices: Arsenic Measurement System, Total Organic Carbon Analyser
52	1RV18EC148	SHIVALIK BHAN	Waste water monitoring devices: Chlorine Measurement System, fluoride measurement system and Portable Cyanide Analyser
53	1RV18EC150	SHREYAS MOHAPATRA	Microbiology and ecology of waste water treatment
54	1RV18EC151	SHREYASH R	Natural Technologies in Wastewater Treatment
55	1RV18EC153	SHUBAM SUDHAKAR GAONKAR	Using of Aquatic plants for Wastewater Treatment
56	1RV18EC155	SOHAIL BAGAWAN	Adsorption and Ion Exchange process in water purification
57	1RV18EC156	SOHAN A KOTIAN	Residuals Management in waste water treatment
58	1RV18EC158	SREYAS M	Impact of wastewater discharges to water bodies
59	1RV18EC159	SRIJANI CHAKRABORTY	Biological phosphorus removal from waste water
60	1RV18EC160	SRINIKETH S S	Biological sulphur removal from waste water
61	1RV18EC161	SUBHAJIT ADHIKARY	Biological nitrogen removal from waste water
62	1RV18EC162	SUBHAM SATAPATHY	Electrochemical oxidation in waste-water treatment
63	1RV18EC166	SYED FARHAN AHMAD	Industrial waste water treatment
64	1RV18EC167	TARUN GOWDA	Application of anaerobic fluidized bed reactors in waste-water treatment
65	1RV18EC169	UDAYRAJ V NAYAK	Integration of chemical and biological oxidation processes for water treatment

66	1RV18 EC170	UJJAWAL MAHENDRU	Use of electro spun polymeric Nano fibrous membranes for water treatment
67	1RV18 EC171	USHA S R	Synthesis of polymeric membrane for purification of waste water.
68	1RV18 EC172	UTKARSH JHA	Synthesis and application of nao particle in waste water purification
69	1RV18 EC173	UTKARSH MAHESHWARI	Removal of heavy metals from waste water using plant extracts
70	1RV18 EC174	V ADHARSH	Removal of heavy metals from waste water using nano materials
71	1RV17 EC036	DEEPAK H V	Chromium removal from industrial waste water sample
72	1RV17 EC031	CHAYA B S	Detection and removal of mercury ions from waste water
73	1RV17 EC020	ANURAG AGRAWAL	Solar photo-catalytic degradation of azo dye using nano materials
74	1RV18 EC018	ANISH KESHAVA	Introduction to water technology and waste water purification and water standards

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This report explores the importance and benefits of experiential learning practices in the Department. It examines various methods and approaches used in experiential learning and highlights their impact on student engagement, skill development, and overall learning outcomes. Additionally, the report discusses the challenges and opportunities associated with implementing experiential learning initiatives and provides recommendations for educators and institutions looking to integrate experiential learning into their curriculum.

Table of Contents:

1. Introduction:

Experiential learning is an educational approach that emphasizes learning through. experience, reflection, and application. It involves hands-on activities, real-world. problem-solving, and active engagement with the subject matter. Civil engineering education is based on experiential learning. It connects theoretical information. obtained in classrooms to real-world application on building sites, infrastructure. projects, and planning initiatives.

Theoretical Framework of Experiential Learning:

Here, the report delves into the theoretical underpinnings of experiential learning, including models such as Kolb's Experiential Learning Cycle and Dewey's theory of learning by doing (PBL). It explores how these

theories inform the design and implementation of experiential learning practices.

Types and Approaches of Experiential Learning

This section discusses various types and approaches of experiential learning, such as internships, project-based learning, and simulations. It examines the characteristics of each approach and provides examples of how they are used in different educational contexts. Experiential learning component is conducted. and evaluated through industrial visits, expert lecture, laboratory works, design, exercises, simulation softwares.

Years wise Broad Topics

2023-24		
Sl.No	EVEN Semester Topics (EL/PBL)	ODD Semester Topics (EL/PBL)
1	II - Semester has started IV & VI – Semester - Yet to start	Green building design, Automated Building Energy Management System, Bernoulli's principle demonstrator, Magnetic Levitation for Seismic Isolation,Flood Detection and Warning System,Smart load breakers for ensuring localized structural failures,Automatic railway gate control system using sensors,Internet of Things-enabled smart cities, State-of-the-art and future trends,Magnetic braking system for transportation,Smart street light using piezoelectric coins, Wastewater Treatment Plant DesignBuilding Information Modeling (BIM) and internet of things on road infrastructures, Fibre optic sensors for structural condition monitoring, Structural health monitoring of civil engineering structures by using the internet of things,Bamboo as a structural material, Smart Irrigation
2		Environmental impact of deep excavations, International standards and regulations for dam safety,Stabilization of black cotton soil with lime and stone dust,Soil liquefication, Role of geosynthetics in stabilization of slopes, Construction defects in deep excavation and their

		remedies,Embankment extension, Ground improvement techniques, Innovative materials in retaining wall construction,Role of geosynthetics in stabilization of slopes, Application of clsm in backfills and pothole treatment, Stability of slopes,Shallow foundation, Application of clsm in backfills and pothole treatment,Dewatering of soil, The role of drones in dam inspection, Soil cement in construction, Improvement of retaining wall stability with geogrid reinforcement, Instrumentation and monitoring of deep foundationsSoil liquefication,Shallow foundation,Top down structures and it construction in metro,Integration of geotechnical and geospatial technologies, Integration of geotechnical and geospatial technologies,Stability of slopes,Embankment extension, Integration of geotechnical and geospatial technologies,Stability of slopes, Improvement of retaining wall stability with geogrid reinforcement,Instrumentation and monitoring of deep foundations,Sustainable geotechnical solutions,Top down structures and its constructions,Innovative materials in retaining wall construction,Sustainable geotechnical solutions,Construction defects in deep excavation and their remedies, Stabilization of black cotton soil with lime and stone dust,Shallow foundation,Innovative shoring systems for deep excavations, Top down structures and its constructions, Application of clsm in backfills and pothole treatment,International standards and regulations for dam safety,Top down construction,Improvement of retaining wall stability with geogrid reinforcement, Dewatering of soil,Stabilization of black cotton soil with lime and stone dust,Improvement of retaining wall stability with geogrid reinforcement,Innovative shoring systems for deep excavations,Research on Detecting Multi-Passage Leakage in Dam by Temperature in Bores,The Stability Analysis of Over-Dip Stratoid Structure, Rock Slope,Study on the Reliability of Loess Cutting Slope ,Considering the Variability ofSeismic Geological Disaster Characteristics,

		Rock Slope Stability Study for Dam Site Based on KinematAnalyses, Stabilization Of Soft Soils Using Industrial Wastes,Diaphragm Wall,Soil Degradation,Soil Nailing,Soil Liquefaction: Topics for civil engineering seminar, Fibre Reinforced Soil,Plastic as a Soil Stabilizer, Soil Cement In Construction,Utilization Of Red Mud In Civil Engineering,Investigation And Characterization of The Solid Waste Disposal Sites and TheirStudies On Geotextiles Reinforced Soil For Pavements, Study Of Migration Of Contaminants Through Soil ColumnSoil Stabilization with Rice Husk Ash and Lime SludgeStabilization of Soils Using GeosyntheticsThe Role of Soils In Purifying Wastewater Effluents Biological Considerations in Geo-technological Engineering,Soil Stabilized Mud Blocks Reinforced With Treated With Coconut Fibers,Methods of Tunnel Construction Materials used in tunnel construction Well foundations,Tunnel boring machine Geotechnical Considerations in Earthen Dam Design, Innovations in Dam Construction Techniques, Sustainable Design and Construction of Earthen Dams, Challenges and Solutions in Dam Rehabilitation, Climate Change and Its Impact on Earthen Dams, International Standards and Regulations for Dam Safety,Community Engagement and Social Impact of Dam Projects, Innovative Technologies in Dam Engineering, Emergency Preparedness and Response for Dam Failures, Dam Safety: Monitoring and Instrumentation, Legal and Ethical Considerations in Dam Construction, Advancements in Dam Construction Materials, Erosion Control Measures for Earthen Dams, Sustainable Design and Construction of Earthen Dams, Geotechnical Challenges in Dam Construction, Dam Rehabilitation and Upgrading Risk Assessment and Management in Dam Projects, The Role of Drones in Dam Inspection, Erosion Control Measures for Dam Embankments, The Role of Public-Private Partnerships in Dam Projects, High-Tech Solutions for Retaining Wall Inspection, Slope stability analysis using Python programming,

		Reinforced Earth Structures, Geosynthetic Reinforcements in Retaining Structures, Innovative Materials in Retaining Wall Construction, Environmental Impact of Deep Excavations, Deep Excavation in Soft Soils, Innovative Shoring Systems for Deep Excavations, Safety Measures in Deep Excavation, Slope stability analysis, Impact of groundwater on the stability of deep excavation, Use of Advanced Technologies in Deep, Excavation Monitoring, Impact of Deep Excavations on Nearby Structures Instrumentation and Monitoring of Deep Foundations, Hybrid Foundation Systems, Foundations for Offshore Structures, Environmental Impact of Deep Foundations, Quality Control and Assurance in Deep Foundation Construction.
3		Introduction and Explanation about shear center and steps to locate shear center,Shear centre for an equal angle section, Deriving an expression to locate shear centre for an equal angle section, Shear centre for a semicircle: Deriving an expression to locate shear centre for semicircular ring, Bending and torsion explained using different types of models shear centre for channel section: Deriving an expression to locate shear centre for channel section, Location of neutral axis, Deriving an expression to find the location of neutral axis in a beam under unsymmetrical bending. Applying the derived concept into a numerical problem. Deflection of beam under unsymmetrical bending, Deriving an expression to calculate deflection in a beam under unsymmetrical bending,Resolution of bending moment into two components along principal axes, Derivation to resolve the BM into components. Bending stress in beams subjected to unsymmetrical bending, Introduction & centroidal principal axes of a section: Introducing the concept of unsymmetrical bending and to understand the principal centroidal axes of a section, Deflection of beam under unsymmetrical bending: Numerical problem,Curved beams,

		Introduction, assumptions, derivation of WINKLER BACH equation, Radius to the neutral surface of simple geometric figures, Limitation, Stress distribution in open curved members such as Hooks and chain links, Deformations of open and closed rings, Radius to the neutral surface of simple geometric figures, Limitation, Stress distribution in closed rings and chain links
		Design and draw plan and elevation to a suitable scale of a regulator-cum-road bridge, Design and draw plan and elevation to a suitable scale of syphon aqueduct type III, Design and draw plan and elevation to a suitable scale of a Trapezoidal notch fall of 2 meters with the following data. Assume coefficient of discharge for trapezoidal notch as 0.70,Design and draw plan and elevation to a suitable scale of a sluice taking off from a tank Irrigating 225 hectares at 1000 duty, Design and draw plan and elevation to a suitable scale of a regulator-cum-road bridge, Design a sluice taking off from a tank irrigating 160 hectares at an average duty of 700 hectares/cumecs The earthen dam of an irrigation tank,Design a regulator cum road bridge

2022-23		
1	Design of bolted Plate Girder, Design of Welded Plate girder, Design of Gantry Girder, Design of Open web steel structures, Analysis and Design of Steel structure using, STAAD/ETABS/Spread Sheets, Fire Protection of Steel Structures, Seismic Design of Steel Structures, Suatainable Design of steel structures, Advanced Fabrication Techniques for Steel Structures, Analysis and Design of Steel structure using	Machine learning models for prediction of strength of concrete,ANN for prediction of strength of Materials of concrete,Study on Sustainable Building Blocks-Bio Blocks,Smart Materials, Virtual Experiments for Materials testing,Sensors for Material testing-Case Study,Composites in Civil Engineering,Machine learning models for prediction of strength of composites, Study on Sustainable Building Blocks-Bio Blocks ,Smart Materials, Virtual Experiments for Materials testing, Sensors for Material testing-Case Study, Composites in Civil Engineering, Sensors for Material testing-Case

	STAAD/ETABS/Spread Sheets	Study, Composites in Civil Engineering Machine learning models for prediction of strength of composites, ANN for prediction of strength of Materials of masonry
2	Typical tender document (2 Specimen samples), Labour act (Brief description & Case study), Safety in construction site Resource management in construction site, Contract management,,Role & resposibility of Junior and Assistant Engineer,Typical contract document (2 Specimen samples),News paper notice to call tender(5 speciment samples),Legal terms to cancel contract , Role of GST in Bill of Quantities ,Case study on estimation of quantities- Bus shelter, Labour management, Sanction of House loan- case study , Role and responsibility of Site Engineer, Rent Fixation- case study, Mortagage Loan -case study, Valuation of Real properties- Agriculture land Case study on estimation of quantities- Indira Canteen Quantity estimation of earthen embankment- case study Real Estate- oppurtunity and threat to civil engineers, Measurment book- illustrative case study , Price escalation in construction industry	Case study on sillicon valley bank collapse, Case Study on Physics Wallah, Case study on Mamaearth, The Coca Cola Company v. Bisleri International Pvt. Ltd. Case study, Trademark infringement case study, Entrepreneurship idea on smart home automation, Case study – Starbucks, Case study on Bajaj auto limited vs TVS Motor,Company Limited(Don't copy this topic), Case Study on Silicon Valley Bank, Case study on entrepreneurship (STEVE JOBS), Case study on entrepreneurship (Ritesh Agarwal), Diversified Food Stalls, Case study on the successful startup paytm, Identify thieft in cyberspace:issues and challenges, Case study on entrepreneur, Case Study on Rapido, Copyright infringement - Tips Industries v Wynk Music(Case study), Case study on Boat Lifestyle, Case Study on Pepsi (Entry into India), Case study-Amul Vs Hindustan unilever ltd(India), Case study on marketing of sephora ,Case study on ZERODHA, Case study On Entrepreneurship, Case study on nike, Case study on anupam mittal, Entreprenurship Charactersitics and successful emtreprenurs case study, Case study on bharatpe founder (Ashneer Grover) , The bicycle repair business-entrepreneurship ideas, Case Study On Coca-Cola VS Pepsi, Case study on Tips industries v wynk music,Apple v/s Samsung case study, Case study-pepsico vs farmers potato case,

	Effects of demonitization in construction industry Public private partnership-case study , Case study on estimation of quantities-foot ball ground(Typical) Infrastructure bond- brief description, Typical work order (2 sample specimens) Contract labour- brief description , Valuation of Immovable properties, Role and responsibility of Chief engineer-CPWD, Land Acquisituion- case study , Building By-law- brief description , Demolition of illegal building case study-BMTF, Appreciation and Depreciation of land-casestudy Finance management in construction site- Case study safety protocol in construction site , Earth moving equipments- brief description Detailed project report (one specimen sample on roads) Fixation of wages- Labour to Engineer Role of Owner/ consultant in construction projects Process of establishing company private company Need of ISO certification for companies Employee Hirerachy- (Private construction sector) Typical contract document (Painting and flooring work for indoor satadium) wages fixation for crane, rig operators- casestudy, Hire charges of major and minor equipments in construction site Requirement of site office and laboratory in construction site(typical example) BOT projects-case study Analysis of rates (10 worked examples) Case	Malteser or Maltesers? Mars takes Hershey trademark dispute to court case study, Case study on entrepreneurship (Elon Musk), Case study Suzuki v/s Toyota , Case study on entrepreneurship (Ashneer Grover), Case study on entrepreneur - Shraddha Sharma , Case study (Mannu bhandari vs kala vikas pvt ltd), Case study on Entrepreneurship(Vijay Sankeshwar), Case study on D mart, Patenting Ideas, Case Study On Return Of Jawa, Cybersquatting and trademark related issues, Trade Mark Infringement Case Study

	study on estimation of quantities- statue of liberty Asset management- brief description Operation and maintenance cost of National highways Bandra warli sea link- Brief description of quanity estimation Toll fixation on National Highways - case study Typical layout planning Case study Approval of Blueprint (Case study on BBMP limits) Marketing strategis- selling residential appartments Road taxes on construction equipments/machineries Typical Cost estimation of Steel staircase Memorandum of Understanding Letter of Intent General power of autorny Sale deed Typical rent/lease aggrement Reconciliation and demobilization of men, machinery and materials in construction site	

3	Rural sanitation environmental impacts of wastewater, Revolutionizing wastewater treatment using solar power,Low cost waste water treatment systems, Industrial waste water(sugar mill waste) treatment, Case study on waste water treatment plant, Advanced wastewater treatment techniqueslow cost waste water treatment systems,Advanced wastewater treatment techniques screening of waste water & segregation of waste into bio-degradable & non bio-degradable,Sustainable energy from septic tanks, Revolutionizing wastewater treatment using solar power, Combined treatment of domestic and industrial waste water, Low cost waste water treatment systems, Revolutionizing wastewater treatment using solar power, Sequencing batch reactorfecal sludge management, Sequencing batch reactor groundwater pollution and remediation,Combined treatment of domestic and industrial waste water, Sustainable waste water treatmenr by achieving energy neutrality and enhancing, Renewable energy production fecal sludge management sustainable energy from septic tanks, Environmental impact on waste water--a case study sustainable energy generation from septic tanks,Fecal sludge management sustainable energy generation from septic tanks environmental impacts of wastewater combined treatment of domestic and industrial waste water advanced wastewater treatment techniques major operational challenges facing wastewater treatment plants groundwater pollution and remediation fecal sludge management groundwater pollution and remediation	Response of shear building with proportion damping Continuous systems, flexural vibration of beams Response of 3 – Storey Frame subjected to ground motion Flexural of simply supported beam and cantilever beam Superposition of normal modes Response of shear building with proportion damping Free longitudinal vibrations of a bar, waves and vibration Matrix formulation of beam with lumped mass Response of shear building with proportion damping Superposition of normal modes Response of simply supported beams under uniformly distributed triangular pulse Loading Matrix formulation of beam with lumped mass Superposition of normal modes Response of 2 – Storey Frame subjected to ground motion Matrix formulation of beam with lumped mass Response of 3 – Storey Frame subjected to ground motion Response of multi -Storey Frame subjected to ground motion Case study on sillicon valley bank collapse rural sanitation, Environmental impacts of wastewater, Revolutionizing wastewater treatment using solar power, Low cost waste water treatment systems industrial waste water(sugar mill waste) treatment, Case study on waste water treatment plant, Advanced wastewater treatment techniques, Low cost waste water treatment systems, Advanced wastewater treatment techniques screening of waste water & segregation of waste into bio-degradable & non bio-degradable, Sustainable energy from septic tanks, Revolutionizing wastewater treatment using solar power, Combined treatment of domestic and industrial waste water, Low cost waste water treatment systems, Revolutionizing wastewater treatment using solar

	environmental impact on waste water--a case study urban wastewater management sequencing batch reactor sustainable waste water treatmenr by achieving energy neutrality and enhancing renewable energy production urban wastewater management sustainable waste water treatmenr by achieving energy neutrality and enhancing renewable energy production removal of heavy metals in waste water removal of heavy metals in waste water industrial waste water(sugar mill waste) treatment rural sanitation sustainable energy generation using septic tanks sustainable energy generation from septic tanks major operational challenges facing wastewater treatment plantscase study on waste water treatment plant sustainable water management: reusing grey water sustainable energy generation using septic tanks sustainable water management: reusing grey water sustainable energy from septic tanks screening of waste water & segregation of waste into bio-degradable & non bio-degradable sustainable energy generation using septic tanks environmental impacts of wastewater sustainable water management: reusing grey water environmental impact of waste water/case study on tunga river at shimogha – Karnataka urban wastewater management environmental impact of waste water/case study on tunga river at shimogha – Karnataka screening of waste water & segregation of waste into bio-degradable & non bio-degradable environmental impact of waste water/case study on tunga river at shimogha – Karnataka urban wastewater management	power sequencing batch reactor, Fecal sludge management, Sequencing batch reactor groundwater pollution and remediation combined treatment of domestic and industrial waste water, Sustainable waste water treatment by achieving energy neutrality and enhancing renewable energy production, Fecal sludge management, Sustainable energy from septic tanks, Environmental impact on waste water--a case study, Sustainable energy generation from septic tanks fecal sludge management, Sustainable energy generation from septic tanks environmental impacts of wastewater combined treatment of domestic and industrial waste water, Major operational challenges facing wastewater treatment plants, Groundwater pollution and remediation, Fecal sludge management groundwater pollution and remediation environmental impact on waste water--a case study, Urban wastewater management, Sequencing batch reactor sustainable waste water treatmenr by achieving energy neutrality and enhancing renewable energy production, Urban wastewater management sustainable waste water treatmenr by achieving energy neutrality and enhancing renewable energy production, Removal of heavy metals in waste water industrial waste water(sugar mill waste) treatment, Rural sanitation, Sustainable energy generation using septic tanks sustainable energy generation from septic tanks, Major operational challenges facing wastewater treatment plants, Case study on waste water treatment plant, Sustainable water management: reusing grey water

		sustainable energy generation using septic tanks, Sustainable energy from septic tanks, Screening of waste water & segregation of waste into bio-degradable & non bio-degradable, Environmental impact of waste water/case study on tunga river at shimogha – Karnataka, Urban wastewater management environmental impact of waste water/case study on tunga river at shimogha – Karnataka, Screening of waste water & segregation of waste into bio-degradable & non bio-degradable environmental impact of waste water/case study on tunga river at shimogha – Karnataka, Uban wastewater management
2021-22		
1	Applications of geosynthetics in seepage,Soil compaction,Soil stabilization using rice husk ash.Use of admixtures in soil compaction, Improvement of bearing capacity of soil, Stabilisation of slope in land slide areas, Differential settlement in soils,Soil structure interaction, Wastewater renovation using constructed soil filter, Soil nailing for stabilization of slopes, Use of rock bolting in geotechnical application, Prevention and control of landslides, Shear strength characterstics of sand-gravel mixtures soil cement block, How we reduce the risks of landslides, Soil stabilization using plastic engineering aspects of reinforced soil lime fly ash soil blocks, Geologic hazards subsidence, collapsible soils, Constructing dewatering method, Sedimentary rocks, Origin of soil and its types	Tender process, Construction Robotics and Automation, Earthquake Resistant Building Construction, Modular building construction, Prefabricated construction, Precast Construction Technique, Hybrid Concrete Building Technique, Building Information Modeling, Shotcrete Technology, Anti-termite treatment, Noise absorbing composite materials using agro waste products, Shallow foundation, Mivan construction, Excavation for foundations in water logged sites, Modular Volumetric Construction, The Dravidian architecture, Diagrid structural system, 3D Printed Construction, Ground modification and land reclamation, Construction of failed dam structures, Bridges and special structures,Green Buildings Technology, Net zero energy buildings, Construction of the Egyptian pyramids,Cracks in Wall
2	Report on RMC Plant Operations, RMC Plant, Evolution of Admixture in Concrete, Radiation shielding concrete	

	Experimental study on the influence of steel fibre reinforcement on the properties of self-compacting concrete, A Project report on Ready mix concrete plant, Mix design using PYTHON, Self Consolidating Concrete, A project on Permeable Concrete, Translucent Concrete, APP on construction material calculation, Developing excel sheet for ordinary and standard grades of concrete mix design, Report on Geopolymer Concrete, Self-Healing Concrete, High strength concrete mix design as per IS 10262-2019 Using spreadsheet , Analysis of Modulus of Elasticity of Concrete, Case study on Fibre reinforced concrete,Videos on properties of concrete and workability experiments, Concrete Mix Design Code Using C++	
2020-21		
1	Bendable concrete, Glass concrete, Presentation of Translucent Concrete, Innovative Green SCC with partial replacement of aggregate by Discarded Concrete, Presentation on self-compacting concrete, A review of Different repair strategies for concrete structures, Review paper on "Effect of hybrid nano materials on the mechanical properties and durability of concrete, Proposal for application of ANNs and CNT/concrete composites in Structural Health Monitoring, Self healing concrete (Review paper),Application of ACT in seismic protection (Review papers), Basalt fibre concrete, Review paper on impact of fire on concrete and concrete structures, Use of recyclable material in concrete , Presentation on Green concrete ,Presentation - Cellular	Moving bed biological reactor (mbbr), Sustainable energy generation by bio fuel cell from septic tank, Ozone water treatment, Wastewater treatment using electromagnetic coagulation, Flyash in waste water treatment,Advanced wastewater treatment: adsorption by activated carbon, phosphorus removal and nitrogen removal,Groundwater pollution and remediation,Solar desalination of water,Supercritical water oxidation for waste water treatment, Hybrid technology in wastewater treatment,Sustainability assessment of advanced wastewater treatment technologies,Wastewater treatment using electromagnetic coagulation,Electrochemical waste water treatment,Sustainability

	Lightweight concrete, Strength of concrete	assessment of advanced wastewater treatment technologies,Hybrid technology in wastewater treatment,Biological nutrient removal in municipal waste water treatment,Ozone water treatment, Treatment of wastewater using membrane bioreactors,Moving bed biological reactor (mbbr),Artificial intelligence in waste water treatment, Intelligent system for the predictive analysis of an industrial wastewater treatment process, Biological nutrient removal in municipal waste water treatment, Sequencing batch reactors for waste water treatment, Ultraviolet irradiation: an emerging technology for waste water treatment, Intelligent system for the predictive analysis of an industrial wastewater treatment process, Sustainability assessment of advanced wastewater treatment technologies intelligent system for the predictive analysis of an industrial wastewater treatment process, Ozone water treatment, Use of algae for treatment of waste water, Adsorption by activated carbon, Biological nutrient removal in municipal waste water treatment, Phosphorus removal and nitrogen removal, Advanced waste water treatment technologies, Use of algae for treatment of waste water, Artificial intelligence in waste water treatment, Sustainable energy generation by bio fuel cell from septic tank sequencing batch reactors for waste water treatment, Experiential learning report on removal of heavy metals from wastewater using absorbents, Electrocoagulation, scolecite and activated carbon,

		Advanced waste water treatment technologies intelligent system for the predictive analysis of an industrial wastewater treatment process, Microbial fuel cell generating power from waste water, Sustainable waste water treatment by achieving energy neutrality and enhancing renewable energy production wastewater treatment by membrane technology,Sustainable waste water treatment by achieving energy neutrality and enhancing renewable energy production,Electrochemical waste water treatment,Wastewater treatment by using nanotechnology, Electrochemical waste water treatment

2. Benefits of Experiential Learning with respect to your department:

In this section, the report outlines the numerous benefits of experiential learning for students, educators, and institutions. Overview of experiential learning and its growing significance in the field of AI & ML:

Problem-Solving Skills: AI & ML require strong problem-solving skills. Experiential learning environments present students with authentic challenges and problems to solve, fostering the development of critical thinking, analytical reasoning, and creativity.

Adaptability and Agility: The field of AI & ML is constantly evolving with new algorithms, techniques, and technologies emerging rapidly. Experiential learning promotes adaptability and agility by exposing students to diverse tools, methodologies, and real-world scenarios, preparing them to navigate the dynamic landscape of AI & ML with confidence.

Career Readiness: Employers increasingly value candidates with practical experience and demonstrable skills in AI & ML. Experiential learning equips students with the hands-on experience and portfolio of projects necessary to stand out in the job market and pursue rewarding careers in fields such as data science, machine learning engineering, and AI research.

Active Engagement: Experiential learning encourages students to

actively engage with AI & ML concepts through practical projects, simulations, and experiments. This active involvement enhances understanding and retention compared to passive learning methods.

5. Challenges in Implementing Experiential Learning with respect to your department:

Here, the report identifies common challenges and barriers to implementing experiential learning initiatives. It addresses issues such as

Time and Resource constraints: Experiential learning activities often require more time, effort, and resources compared to traditional lecture-based instruction. Faculty have faced constraints in terms of available class time, student workload, making it challenging to incorporate the topics of experiential learning

Assessment and Evaluation: Assessing student learning and performance in experiential learning environments can be more complex than traditional assessment methods. Measuring skills such as problem-solving, critical thinking, and collaboration requires innovative assessment approaches, such as project-based assessments, peer evaluations, and portfolio reviews, which may pose logistical challenges for faculties.

The different strategies are followed in the department to overcome these obstacles

Rubrics and Criteria: A comprehensive rubrics and assessment criteria for each of the experiential learning topics is considered. These rubrics that outline expectations for student performance across various dimensions, including technical proficiency, problem-solving skills, critical thinking, communication, collaboration.

6. Case Studies and Examples:

This section presents real-world case studies and examples of successful experiential learning programs. It highlights innovative approaches and best practices used by institutions to integrate experiential learning into their curriculum and shares insights gained from these experiences. Include the photos of events in case studies if any.

Each semester put two best case studies (i.e. any one EL/PBL)

Case Study 1
Course Name- Traffic Engineering
Experiential learning Component topic-

1. Traffic survey(Field studies)- Students
2. Traffic rules certification
   - Traffic surveys: Traffic Volume counts (60 mins), Trip information (10 Vehicles), Road network inventory survey (Selected Junction), Speed and delay survey (at Junction), Pedestrian count survey (60 mins), and roadside interview survey (10 members).
   - Traffic rules certification

Expected Outcome

1. Exposure to Traffic rules and regulations
2. Understand traffic and pedestrian characteristics

Rubrics:

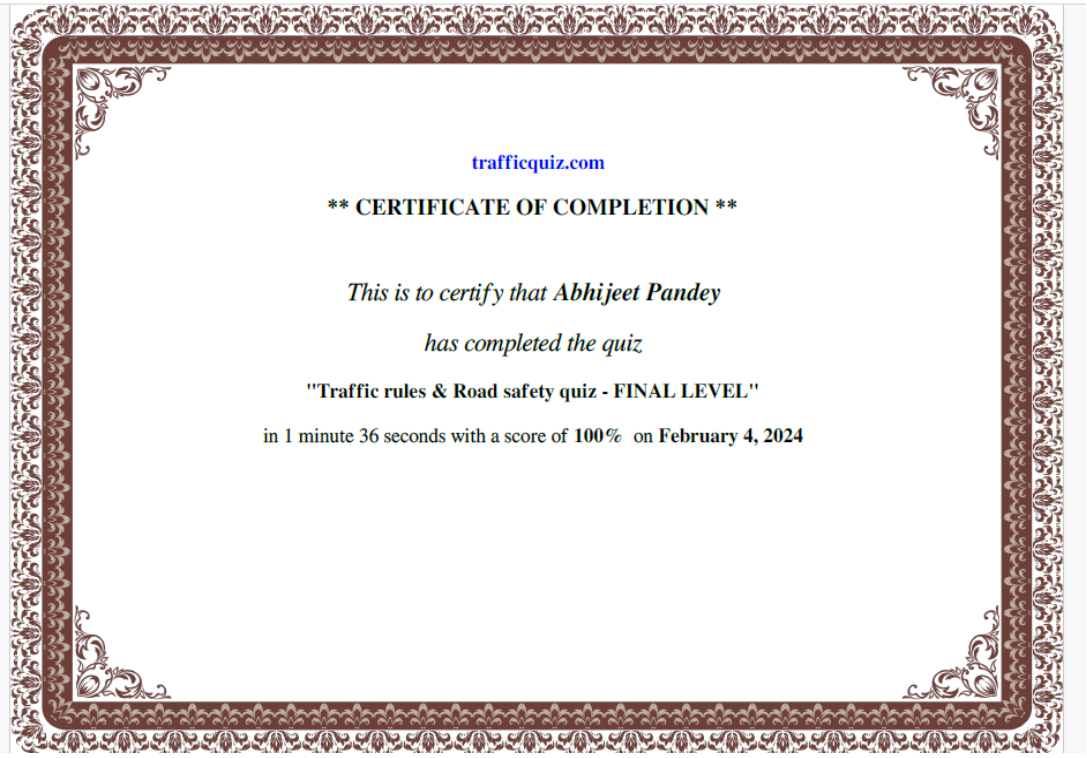
EL-1-(30 Marks)

- Identification of Junction Traffic Volume counts (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Trip information (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Road network inventory survey (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Speed and delay survey (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Pedestrian count survey (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Roadside Interview Survey(05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)

EL-2-(10 Marks)

- Traffic regulations and rules certification course (10 Marks)- Excellent (10), Very good (8-9), Good (6-7), Fair(0-5)

Sample Submission



trafficquiz.com

** CERTIFICATE OF COMPLETION **

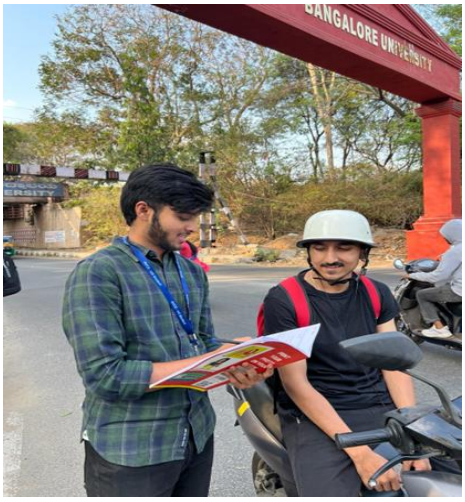
This is to certify that ***Abhijeet Pandey***

has completed the quiz

"Traffic rules & Road safety quiz - FINAL LEVEL"

in 1 minute 36 seconds with a score of **100%** on **February 4, 2024**

Sample Submission- Traffic studies



NAME : 1st floor, 11th Cross Rd, near Hoysala Circle, next to Gayathri Mandir, Valagerahalli, Subash Nagar, Kengeri Satellite Town, Bengaluru, Karnataka 560060, Bengaluru, Karnataka 560098

DIFFERENT CROSS ROAD AT THE INTERSECTION : 2nd floor, Houston circle, No. MIG20, 1st main 9th cross, Valagerahalli, Stage II, Kengeri , Bengaluru, Karnataka 560060

LOGITUDE AND LATITUDE : 12.9247° N, 77.4852° E

CLASSIFIED TRAFFIC VOLUME COUNT-Junction Turning Count Survey

Junction Name:	Hoysala Circle Junction Kengeri satellite town	Date:	10-03-24	Enumerator:	Chetan Kumar U
Approach Road Name:	Old Outer Ring Road	Directions:	Towards Kengeri, Mysuru road	Turn:	~~left~~ NO ~~right~~

Time	Buses				Private Vehicle & IPT					Goods Vehicles				Slow Moving Vehicles		
	City Bus	Mofussil Bus	Other Bus	Mini Bus	Van	share auto (Temp o)	Cars	Two wheelers	Auto Rickshaw	Trucks	MAV	LCV	Others	Cycles	Others	Cycle Rickshaws
12:00 to 12:15	9	–	–	4	6	–	260	350	20	5	3	11	–	11	–	–
1:00 to 1:15	12	–	–	3	5	–	200	300	850	3	1	6	–	8	–	–
2:00 to 2:15	15	–	–	2	8	–	255	310	301	4	3	5	–	2	–	–
3:00 to 3:15	17	2	–	6	17	–	384	260	153	7	4	11	–	0	–	–

Case Study 2 (Complete Process report with Evaluation rubrics)

CV234AI-CONCRETE TECHNOLOGY
2023-2024

EL1

Studying given topic and preparing report in word format, Preparation of power point presentation

EL2

Status of research/ innovations in the area-presentation in form of a poster,Presenting the study with a video and poster

Traffic rules certification

Rubrics:

EL-1-(20 Marks)

- Study on given topic and preparation of report (10 Marks): Excellent (10), Very good (8-9), Good (6-7), Fair (0-5)
- Presenting the study with a power point (05 Marks): Excellent (5), Very good (4), Good (3), Fair (0-2)
- Presentation of ppt (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)

EL-2-(20 Marks)

- Study on thrust area, preparation of literature review and preparation of Poster (10 Marks)- Excellent (10), Very good (8-9), Good (6-7), Fair(0-5)
- Quality of content and timely submission (10 Marks)- Excellent, on time (10), Very good, on time (8-9), Good, late submission (6-7), Fair, late submission(0-5)

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DEPARTMENT OF CIVIL ENGINEERING
BENGALURU-560059

CONCRETE TECHNOLOGY CV234AI

A Report on:
Durability of Concrete

Submitted by
Dharshan K V(RVCE23BCV400)

Department of Civil Engineering
RV College of Engineering
RV Vaidyanathan Post, Mysore Road, Bangalore-59

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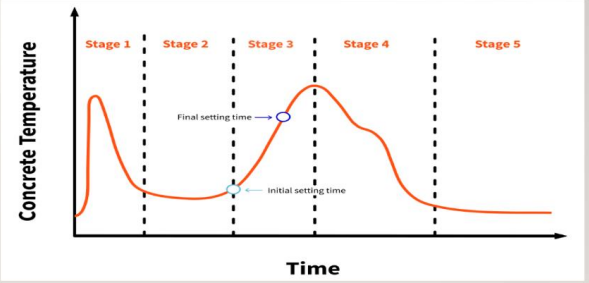
5 PHASE OF THE HYDRATION PROCESS

1. **Phase:** Initial mixing reaction
2. **Phase:** Dormancy
3. **Phase:** Strength acceleration
4. **Phase:** Speed reduction
5. **Phase:** Steady development



RV College of Engineering®

Department of Civil Engineering, RVCE

CV234AI- CONCRETE TECHNOLOGY

Experential Learning

ON

DURABILITY

SUBMITTED BY
DHARSHAN K V
3rd Senester 'A' section

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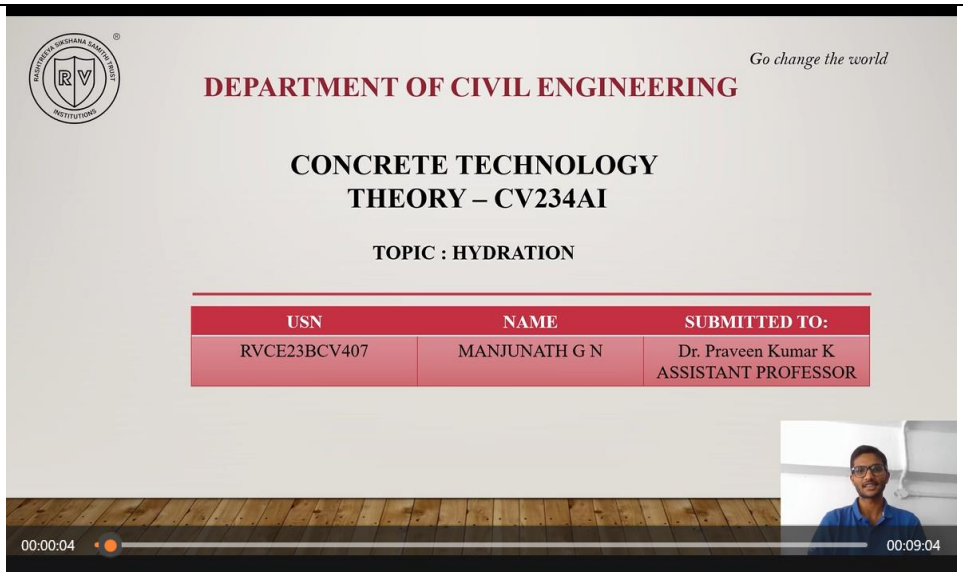

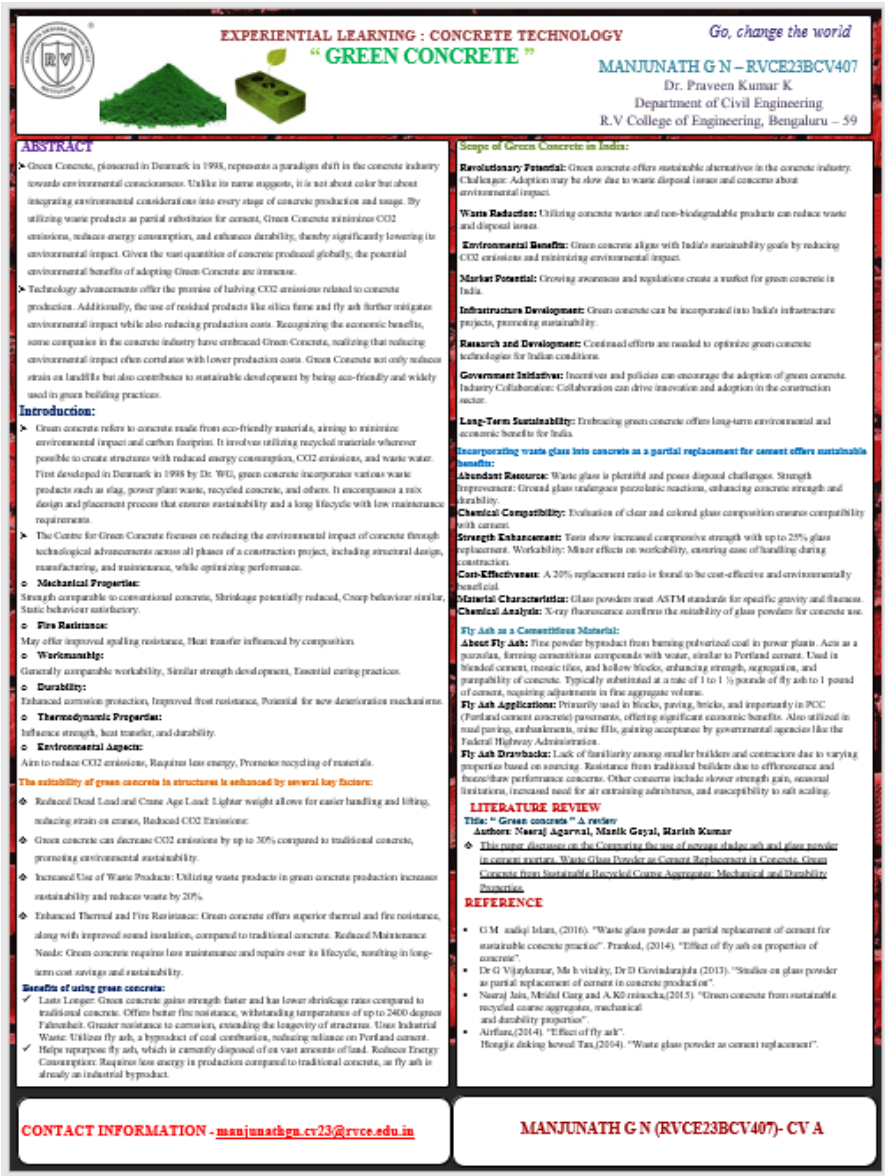

Outcomes:

1. Understand the course very well, explore the topics independently
2. Experiment with different inputs for insights
3. Understand practical aspects
4. Use ICT tools in presentation of EL topics
5. Develop presentation skills

Impact Analysis:

1. Get the insights on advancements of technology for their career growth
2. Get insights into the needs of the society
3. Students get deeper insights into technical aspects
4. Technical fluency paves path for higher studies and placement

Year: 2022-2023

Case Study 1 (Complete Process report with Evaluation rubrics)

SUBJECT CODE: 18CV6D4, CONSTRUCTION MANAGEMENT

FACULTY: DR.PRAVEEN KUMAR K/DR.VIKAS M

Brief summary:

Students were exposed to concepts of construction management. And economy. Students were allotted with different topics on recent developments in construction management and also asked to do course in MOOC and submit the certificate.

EL1 15 marks
Studying given topic and preparing report in word format, Preparation of power point presentation . Presenting the study
EL2: 5 marks
MOOC Certification in a trending topic on construction management from NPTEL/COURSERA etc.

Rubrics:

EL-1-(15 Marks)

- Study on given topic and preparation of report (05 Marks): Excellent (5), Very good (4), Good (3), Fair (0-2)
- Presenting the study with a power point (05 Marks): Excellent (5), Very good (4), Good (3), Fair (0-2)
- Presentation of ppt (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)

EL-1-(05 Marks)
Completion of MOOC course and Cerification [05 Marks)

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DEPARTMENT OF CIVIL ENGINEERING

CONSTRUCTION MANAGEMENT

EXPERIENTIAL LEARNING

PROJECT SCHEDULING: ESTIMATE ACTIVITY DURATIONS

Submitted by:
PRUTHVIK H KUMAR(1RV20CV083)

Submitted to:
Dr Vikas Mendi

DEPARTMENT OF CIVIL ENGINEERING
RV COLLEGE OF ENGINEERING, BENGALURU- 560 059
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Table of Contents:

Outcomes:

1. Understand the course very well, explore the topics independently
2. Experiment with different inputs for insights
3. Understand practical aspects of construction management
4. Use ICT tools in presentation of EL topics
5. Develop presentation skills and present case studies/mini projects

Impact Analysis:

1. Get the insights on advancements in field of construction management
2. Get insights into the needs of the society
3. Students get deeper insights into technical aspects and get certification in certain skills
4. Technical fluency paves path for higher studies in field of construction management and placement

Case Study – 2

Structural Analysis II – 18CV52

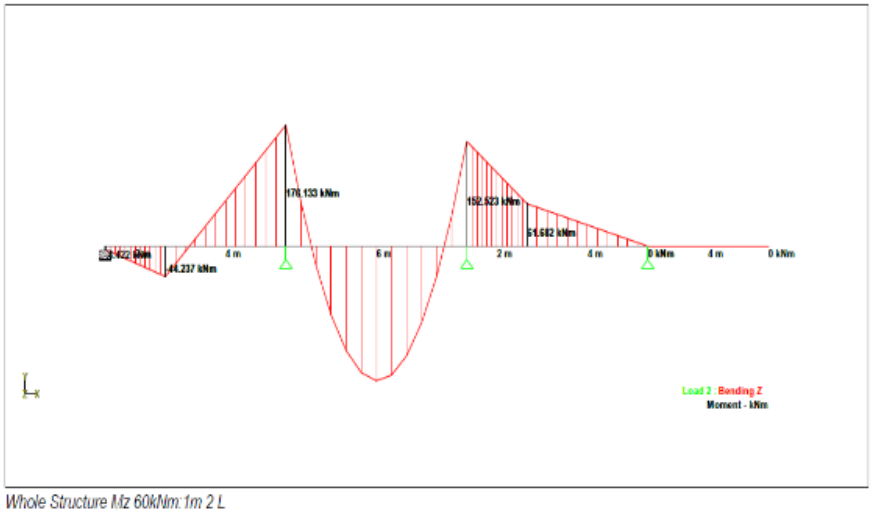
Conducted training for Staad Pro – Structural Analysis software and students were assessed by providing different structures with different dimensions and loading conditions.

Rubrics:

EL-1-(40 Marks)

- Identification of beam/frame/truss with dimensions and loading (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Defining material properties and assigning specific values for beams/frames/trusses (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Parameters for analysis of structures (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Analyzing support reactions and moments for structures(05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Variation of moments and stress diagrams along the span of the structure (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Excellent (05), Very good (4), Good(3), Fair(0-2)

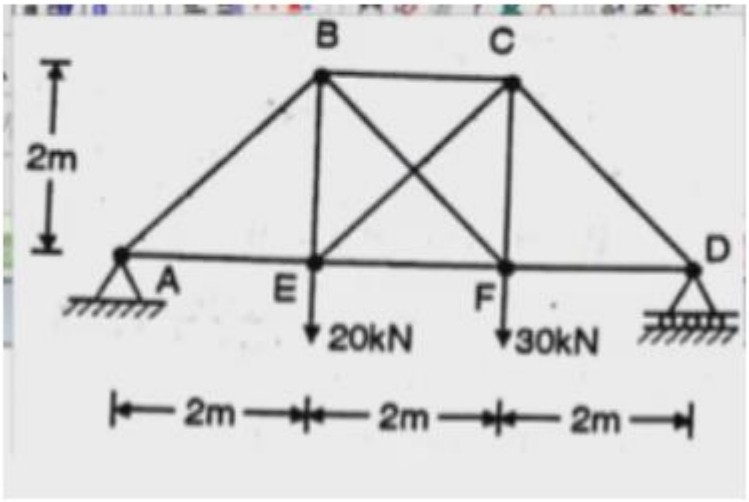
BENDING MOMENT DIAGRAM:



Whole Structure Mz 60kNm: 1m 2 L

Problem Statement:

Analyze the given Truss using STAAD Pro



2021-22

Case Study – 1
Course Name-Valuation Engineering - 18CV7G5
Brief Summary

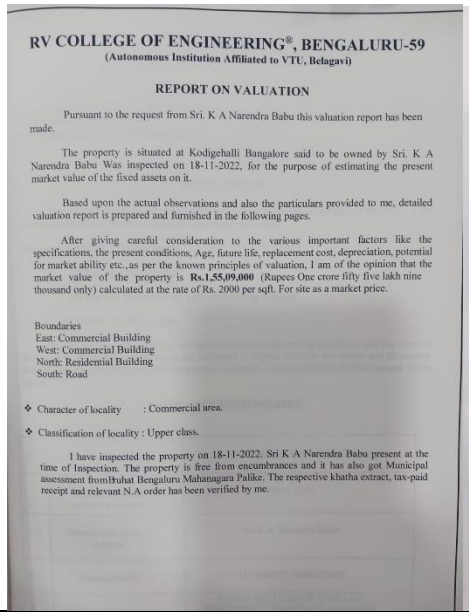
Conducted valuation on different types of residential, commercial and public buildings. Students are exposed to practical assessment of the buildings. Identification of the buildings, gathering floor plan, necessary permissions, measurement, planning, retrieving guidance value of the property etc. are accumulated by the student.

Rubrics:

EL-1-(40 Marks)

- Identification of building for valuation (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Gathering information about the building (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Setting parameters for conduction of valuation (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Measurements and verification of approved floor plan (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)

- Identification of parameters that increase and decrease the value of the property (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)
- Submission of valuation report with photographs with navigation map (05 Marks): Excellent (05), Very good (4), Good(3), Fair(0-2)



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REPORT ON VALUATION

Pursuant to the request from Sri. K A Narendra Babu this valuation report has been made.

The property is situated at Kodigehalli Bangalore said to be owned by Sri. K A Narendra Babu Was inspected on 18-11-2022, for the purpose of estimating the present market value of the fixed assets on it.

Based upon the actual observations and also the particulars provided to me, detailed valuation report is prepared and furnished in the following pages.

After giving careful consideration to the various important factors like the specifications, the present conditions, Age, future life, replacement cost, depreciation, potential for market ability etc.,as per the known principles of valuation, I am of the opinion that the market value of the property is **Rs.1,55,09,000** (Rupees One crore fifty five lakh nine thousand only) calculated at the rate of Rs. 2000 per sqft. For site as a market price.

Boundaries
East: Commercial Building
West: Commercial Building
North: Residential Building
South: Road

- Character of locality : Commercial area.
- Classification of locality : Upper class.

I have inspected the property on 18-11-2022. Sri K A Narendra Babu present at the time of Inspection. The property is free from encumbrances and it has also got Municipal assessment from Puhat Bengaluru Mahanagara Palike. The respective khatha extract, tax-paid receipt and relevant N.A order has been verified by me.

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IMAGES OF THE PROPERTY

Case Study – 2

Course Name : Waste water Engineering (18CV63)

Name of EL component: Expert Lecture on Advanced Waste water Engineering by DR Ravi D.R., Environmental Officer, KSPCB,GOK, Bengaluru.

Brief Summary: Students were exposed to advanced Wastewater treatment which is under Practice in field so that sanitation could be achieved in a bigger scale. Since conventional waste water treatment does not serve the required efficiency , more insights through the expert talk was given to the students so that they were well aware of the technologies available in the Industries.

Rubrics:

Total Marks: 20

Mandatory attendance for the Expert talk: 05 Marks

Satisfactory interaction with Guest: 05 Marks

Individual submission of Report with better Understanding: 10 Marks (Introduction -02 Marks, Relevance of the Technology -03 Marks, Methodology explained -03 Marks, Outcome -02 Marsk).

Outcomes:

The students were able to :

Understand the difference between Domestic and Industrial

wastewater characteristics.
Understand the practical importance of current available treatment technologies for wastewater .
Demonstrate prototype household treatment units.

Impact Analysis:

The students were able to:
Get the insights about treatment practices and choose better careers in this domain.
Can explore additional certificate courses in this field

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Report of Technical Talk on

"Advanced Waste Water Treatment Methods"

Name of the Event	:	*"Technical Talk on Advanced Waste Water Treatment Methods"*
Organised By	:	Civil Engineering Department, RVCE
Speaker	:	Dr. Ravi D R
Course Coordinators	:	Dr. A R Vinod, Prof. Shashi Kiran C R
Date & Time	:	08.07.2022 - 09.30 AM to 11.00 AM
Venue	:	Mechanical Seminar hall, RVCE, Bengaluru
No.of Participants	:	120 Students

Profile of the Speaker:

1. Dr. Ravi D.R. has percived Ph.D in Environmental Economics from University of Mysore through Institute for Social & Economic Change (ISEC), Bangalore, M. Tech in Environmental Engineering from Sri Jayachamarajendra College of Engineering, Mysore (under VTU, Belgaum).
2. Presently working as Environmental Officer at Karnataka State Pollution Control Board (KSPCB), Bangalore
3. 30 years of rich experience in Pollution Control, resource conservation, Enforcement of Pollution Control Laws etc.
4. Co-authored Text Book Entitled "Environmental Issues, Law and Technology An Indian Perspective" Published by Research India Publications, NewDelhi.2010.
5. Authored 2 more Text book titles "Sustainable Development for Environmental Protection" & "Environmental Burden of Disease due to Urban Air Pollution- Case Study of Bangalore" Published by Research India Publications, New Delhi.2010.
6. Written number of articles in International/ National Journals/Working Papers/ and Edited Textbooks on different issues & Participated as Resource Person on Large number of Conferences/workshops/Programmes on
   - Impact of Climate Change on Water Resources, Sanitation, Urbanization andLand Use Change.
   - Water Resource Accounting.
   - State of Environment Report-2015, 2017 Chemical Industry Sector

7. Recommendations for Integrating Experiential Learning:

Based on the findings of the report, this section provides practical recommendations for educators and institutions looking to integrate experiential learning into their teaching practices. It offers guidance on curriculum design, faculty training, and assessment methods tailored to experiential learning.

8. Outcome & Conclusion:

The report concludes by summarizing key findings and insights from the exploration of experiential learning practices. It underscores the importance of experiential learning in fostering student success and calls for continued efforts to promote its widespread adoption in engineering education.

Upload all the EL/PBL reports of all the batches years wise in the following link:

https://drive.google.com/drive/folders/12Bl-3GMcanxaplN87IX-8t8f7107Au76

Course Wise Subtopic information need to be filled:

Name of the Course : CV112TA-Engineering Mechanics

Year : 2023-24

Sl No	**Admission No.**	Name	EL Topic
1	RVCE23BCV066	G P Nagarjun	GREEN BUILDING DESIGN
2	RVCE23BCV039	Pratyush Dubey	
3	RVCE23BCV010	Omkar Padhi	
4	RVCE23BCV042	Abdul Hakeem	
5	RVCE23BCV037	Prachi Singh	Automated Building Energy Management System
6	RVCE23BCV050	Anupam Anand	
7	RVCE23BCV035	Bhumi Khandelwal	
8	RVCE23BCV051	Suyash Tiwari	
9	RVCE23BCV001	Animesh Agrawal	
10	RVCE23BCV045	Anjali	

11	RVCE23BCV015	Samuel R Fernandes	BERNOULLI'S PRINCIPLE DEMONSTRATOR
12	RVCE23BCV006	Nossu Techi	
13	RVCE23BCV031	Dhanush Palegar N	Magnetic Levitation for Seismic Isolation
14	RVCE23BCV063	Bhavish S	
15	RVCE23BCV033	K Dinesh	
16	RVCE23BCV064	Bandrakalli Kiran Kumar	
17	RVCE23BCV013	Adarsh Abhiraj	Flood Detection and Warning System
18	RVCE23BCV016	Manish	
19	RVCE23BCV028	Shashank Patil	
20	RVCE23BCV023	Mohammed Abdul Mughees	
21	RVCE23BCV049	Ankit kumar	Smart load breakers for ensuring localized structural failures
22	RVCE23BCV021	Kaif Ali Khan	
23	RVCE23BCV038	Patel Shwet Vishnubhai	
24	RVCE23BCV061	Purushothama Reddy M	
25	RVCE23BCV057	Tarun Raghav SK	
26	RVCE23BCV044	Anay Sharma	Automatic railway gate control system using sensors
27	RVCE23BCV056	Afrid Ahmed	
28	RVCE23BCV041	Mohammad Zaid mir	
29	RVCE23BCV052	Kunal Mehta	
30	RVCE23BCV040	Mitali Pal	Internet of Things-enabled smart cities: State-of-the-art and future trends
31	RVCE23BCV019	Monisha S N	
32	RVCE23BCV043	Tushar Kumar	
33	RVCE23BCV047	Y Narasimha Sai Sashank	
34	RVCE23BCV022	Syed Imtiyaz	Magnetic braking system for transpotation
35	RVCE23BCV034	E M Pavan Kumar	

36	RVCE23BCV017	Mutturaj Pandit Pujar	
37	RVCE23BCV004	Vishal Patil	
38	RVCE23BCV014	Armaan Goyal	Smart street light using piezoelectric coins
39	RVCE23BCV024	Sunil	
40	RVCE23BCV053	Sudhanshu Kumar	
41	RVCE23BCV007	Dhanush Gowda	
42	RCVE23BCV005	Syed Altaf	Wastewater Treatment Plant Design
43	RVCE23BCV059	Sanjith G S	
44	RVCE23BCV067	Manish S K	
45	RVCE23BCV055	Nuthan H T	
46	RVCE23BCV065	Prateek M B	Building Information Modeling (BIM) and internet of things on road infrastructures
47	RVCE23BCV062	Lekhana H R	
48	RVCE23BCV030	Surya R Gowda	
49	RVCE23BCV027	Venkatesh K	
50	RVCE23BCV060	Bhargav U	Fibre optic sensors for structural condition monitoring
51	RVCE23BCV032	Vijay Raghavendrasa Shingiri	
52	RVCE23BCV026	Bhuvan V Sirigeri	
53	RVCE23BCV058	Mouny Gagan	
54	RVCE23BCV029	Sanjeev Suresh Naik	Structural health monitoring of civil engineering structures by using the internet of things
55	RVCE23BCV046	Hitesh Chandra	
56	RVCE23BCV020	Shashank S	
57	RVCE23BCV002	G K Kavin Adithya	
58	RVCE23BCV008	Vamshi VK	Bamboo as a structural material
59	RVCE23BCV036	Thunga Kumar Sujal	
60	RVCE23BCV048	Dakshak Pradeep	
61	RVCE23BCV009	Tejas G	

62	RVCE23BCV012	Krithin Kanna Shaktivil	
63	RVCE23BCV054	Preetham V J	Smart Irrigation
64	RVCE23BCV018	Aryan Kiran Nippanikar	
65	RVCE23BCV025	Yuvaraj H R	

Name of the Course : Geotechnical Engineering (18CV72) Course

Year : 2023-24

Sl No	USN	Name	EL Topic
1	1RV20CV001	ABHISHEK B GAIKWAD	Environmental impact of deep excavations
2	*1RV20CV002*	ADITHI J BATHI	International standards and regulations for dam safety
3	1RV20CV004	ADITYAA R.K	Stabilization of black cotton soil with lime and stone dust
4	1RV20CV005	AKASH DYAMAGOND HONGAL	Soil liquefication
5	1RV20CV006	AKSHAY S	Role of geosynthetics in stabilization of slopes
6	1RV20CV007	AMAR CHOUHAN	Construction defects in deep excavation and their remedies
7	1RV20CV008	AMBUJ AGRAWAL	Embankment extension
8	1RV20CV009	AMISHA SANTHOSH	Ground improvement techniques
9	1RV20CV011	AMUL	Innovative materials in retaining wall construction
10	1RV20CV012	ANANYA S	Role of geosynthetics in stabilization of slopes
11	1RV20CV013	ANJAN S MARUTHI	Application of clsm in backfills and pothole treatment
12	1RV20CV014	ANSHUL DHABHAI	Stability of slopes
13	1RV20CV15	ANUSHA N	Shallow foundation
14	1RV20CV018	ASHWIN MADHU	Application of clsm in backfills and pothole treatment
15	1RV20CV019	B M DHANUSH	Dewatering of soil
16	1RV20CV020	BALRAJ SINGH TAGORE	The role of drones in dam inspection
17	1RV20CV022	BHUVAN U	Soil cement in construction
18	1RV20CV023	BRINDA G N	Soil cement in construction
19	1RV20CV025	CHALLA NEHA	Improvement of retaining wall stability with geogrid reinforcement
20	1RV20CV026	CHANDRASHEKHAR TALLOLLI	Instrumentation and monitoring of deep foundations
21	1RV20CV027	CHANDU H	Soil liquefication

22	1RV20CV028	CHINMAYANANDA S	Shallow foundation
23	1RV20CV029	CHINTHAN H C	Top down structures and its construction in metro
24	1RV20CV030	DARSHAN GOWDA M	Integration of geotechnical and geospatial technologies
25	1RV20CV031	DEEKSHITH N	Integration of geotechnical and geospatial technologies
26	1RV20CV032	DEEPAK KUMAR	Stability of slopes
27			
28	1RV20CV034	DEVANSH DANDOTIYA	Embankment extension
29	1RV20CV035	DHAVAN M	Integration of geotechnical and geospatial technologies
30	1RV20CV037	GIRINDRA SHEKHAR	Stability of slopes
31	1RV20CV043	HARSHITHA.A.V	Improvement of retaining wall stability with geogrid reinforcement
32	1RV20CV044	HEMANTH P GOWDA	Instrumentation and monitoring of deep foundations
33	1RV20CV045	HIMA B.	Sustainable geotechnical solutions
34	1RV20CV046	J. GOWTHAM KRISHNA	Top down structures and its constructions
35	1RV20CV048	K. GNANESHWAR	Top down structures and its constructions
36	1RV20CV049	K M NAGABHUSHAN	Innovative materials in retaining wall construction
37	1RV20CV050	K.ROJA	Sustainable geotechnical solutions
38	1RV20CV052	KEERTHI E	Loees slope
39	1RV20CV053	KRISHNA ANAND	Construction defects in deep excavation and their remedies
40	1RV20CV054	KUMARSWAMY S	Stabilization of black cotton soil with lime and stone dust
41	1RV20CV055	KUSHAL BV	Shallow foundation
42	1RV20CV056	KUSHAL M	Innovative shoring systems for deep excavations
43	1RV20CV058	L. JAIDEEP REDDY	Top down structures and its constructions
44	1RV20CV059	M ADARSH R NAYAK	Application of clsm in backfills and pothole treatment
45	1RV20CV061	MANOJ KITTUR	International standards and regulations for dam safety
46	1RV20CV062	MAYANK AGARWAL	Top down construction
47	1RV20CV063	MEDHA C MUNNOLI	Improvement of retaining wall stability with geogrid reinforcement
48	1RV20CV065	NAVNEET KUMAR	Top down construction
49	1RV20CV064	MUKUL GANDHI	Top down construction
50	1RV19CV066	PRAJWAL MS	Dewatering of soil
51	1RV21CV400	DARSHAN YADAV	Stabilization of black cotton soil with lime and stone dust
52	1RV21CV401	DODDABASAVA	Improvement of retaining wall stability with geogrid reinforcement

53	1RV21CV404	OMKAR GARJE	Innovative shoring systems for deep excavations
54	1RV21CV407	KAVANA V.	Improvement of retaining wall stability with geogrid reinforcement
55	1RV21CV408	ROSHAN UMESH NAIK	Improvement of retaining wall stability with geogrid reinforcement
56	1RV21CV411	YASHWANTKUMAR B	Improvement of retaining wall stability with geogrid reinforcement
57	1RV20CV066	NEERAJ KUMAR RAMTEKE	Research on Detecting Multi-Passage Leakage in Dam by Temperature in Bores
58	1RV20CV068	NIKHIL SINGH	The Stability Analysis of Over-Dip Stratoid Structure Rock Slope
59	1RV20CV069	NITISH S	Study on the Reliability of Loess Cutting Slope Considering the Variability of
60	1RV20CV070	NOOKARAPU SINDHU HARIKA	Seismic Geological Disaster Characteristics
61	1RV20CV071	OJASWITA SINGH	Rock Slope Stability Study for Dam Site Based on Kinematic Analyses
62	1RV20CV073	P TEJAS GOWDA	Stabilization Of Soft Soils Using Industrial Wastes
63	1RV20CV074	PIYUSH KUMAR	Diaphragm Wall
64	1RV20CV075	POOJARI YUVA NANDA KUMAR	Soil Degradation
65	1RV20CV076	POORVIK D	Soil Nailing
66	1RV20CV077	PRADEEP RAJU KAMBLE	Soil Liquefaction: Topics for civil engineering seminar
67	1RV20CV080	PRASHANT KUMAR	Fibre Reinforced Soil
68	1RV20CV081	PRATYUSHA K	Plastic as a Soil Stabilizer
69	1RV20CV082	PRIYANKA M	Soil Cement In Construction
70	1RV20CV083	PRUTHVIK H KUMAR	Utilization Of Red Mud In Civil Engineering
71	1RV20CV084	PUNITH K S	Investigation And Characterization Of The Solid Waste Disposal Sites And Their
72	1RV20CV085	RAHUL	Studies On Geotextiles Reinforced Soil For Pavements
73	1RV20CV086	RAHUL B DYAMANAGOUDRA	Study Of Migration Of Contaminants Through Soil Column
74	1RV20CV087	RAHUL M	Soil Stabilization with Rice Husk Ash and Lime Sludge
75	1RV20CV088	RAHUL RAJEEV NAIK	Stabilization of Soils Using Geosynthetics
76	1RV20CV089	RAHUL S	The Role of Soils In Purifying Wastewater Effluents
77	1RV20CV090	RAJASHEKHAR C HOSAMANI	Biological Considerations in Geo-technological Engineering
78	1RV20CV091	ROHAN LAKRA	Soil Stabilized Mud Blocks Reinforced With Treated With Coconut Fibers
79	1RV20CV092	SACHIN S KADANIKAR	Methods of Tunnel Construction

80	1RV20CV093	SAHANA Y	Materials used in tunnel construction
81	1RV20CV094	SAI SAHARSH M	Well foundations
82	1RV20CV095	SAIQUAL FRAZ	Tunnel boring machine
83	1RV20CV096	SAMEEKSHA KOTHARI	Geotechnical Considerations in Earthen Dam Design
84	1RV20CV097	SARIPUTI YAMUNA	Innovations in Dam Construction Techniques
85	1RV20CV098	SATYAM KUMAR	Sustainable Design and Construction of Earthen Dams
86	1RV20CV099	SHEETAL G NAIK	Challenges and Solutions in Dam Rehabilitation
87	1RV20CV100	SHIVANSHU SHAISHAV	Climate Change and Its Impact on Earthen Dams
88	1RV20CV101	SHIVSAGAR	International Standards and Regulations for Dam Safety
89	1RV20CV102	SIDDHARTH	Community Engagement and Social Impact of Dam Projects
90	1RV20CV103	SIDDU PATIL	Innovative Technologies in Dam Engineering
91	1RV20CV104	SOURABH DHAMANEKAR	Emergency Preparedness and Response for Dam Failures
92	1RV20CV105	SRIHARSHA JAVALI	Dam Safety: Monitoring and Instrumentation
93	1RV20CV106	SRUSHTI K	Legal and Ethical Considerations in Dam Construction
94	1RV20CV108	SUMANTH REDDY R K	Advancements in Dam Construction Materials
95	1RV20CV109	SUMEDH JAIN	Erosion Control Measures for Earthen Dams
96	1RV20CV110	SUNIL KHARNOTIA	Sustainable Design and Construction of Earthen Dams
97	1RV20CV111	SUPREETH P	Geotechnical Challenges in Dam Construction
98	1RV20CV113	SUSHMA SOMANAGOUDA PATIL	Dam Rehabilitation and Upgrading
99	1RV20CV114	SYED AQIB ASHIQ	Risk Assessment and Management in Dam Projects
100	1RV20CV115	TANMAY YUWARAJ PATIL	The Role of Drones in Dam Inspection
101	1RV20CV116	TEHSEEN TAJ M	Erosion Control Measures for Dam Embankments
102	1RV20CV117	TEJAS GAUTAM	The Role of Public-Private Partnerships in Dam Projects
103	1RV20CV120	TRISHA H BADODAGI	High-Tech Solutions for Retaining Wall Inspection
104	1RV20CV121	TUSHAR BORAR	Slope stability analysis using Python programming
105	1RV20CV122	UJWAL S C	Reinforced Earth Structures
106	1RV20CV123	VIDYA H S	Geosynthetic Reinforcements in Retaining Structures

107	1RV20CV124	VINAY KULKARNI	Innovative Materials in Retaining Wall Construction
108	1RV20CV125	VINAY M	Environmental Impact of Deep Excavations
109	1RV20CV126	VINAY VUNDAVALLI	Deep Excavation in Soft Soils
110	1RV20CV127	VISHAL	Innovative Shoring Systems for Deep Excavations
111	1RV20CV128	VISMAYA E GOWDA	Safety Measures in Deep Excavation
112	1RV20CV129	VISWAVIJAY KUMAR	Slope stability analysis
113	1RV20CV130	YASHWANTH K V	Impact of groundwater on the stability of deep excavation
114	1RV21CV402	KANTHARAJU P	Use of Advanced Technologies in Deep Excavation Monitoring
115	1RV21CV405	PRAVEEN KUMAR D N	Impact of Deep Excavations on Nearby Structures
116	1RV21CV406	PRUTHVIRAJ T N	Instrumentation and Monitoring of Deep Foundations
117	1RV21CV407	RAJASHEKHAR K	Hybrid Foundation Systems
118	1RV21CV409	SRINIVAS B R	Foundations for Offshore Structures
119	1RV21CV410	VIDYA S	Environmental Impact of Deep Foundations
120	1RV19CV125	YARRAPUREDDY AKHILESWAR	Quality Control and Assurance in Deep Foundation Construction

Name of the Course : 18CV7F4 - Hydraulic Structures

Year : 2023-24

Sl No	USN	Name	EL Topic
1	1RV20CV076	POORVIK D	Design and draw plan and elevation to a suitable scale of a regulator-cum-road bridge
2	1RV20CV063	MEDHA CHANDRASHEKHAR MUNNOLI	
3	1RV20CV049	K M NAGABHUSHAN	
4	1RV20CV011	AMUL	
5	1RV20CV065	NAVNEET KUMAR	
6	1RV20CV029	CHINTHAN H C	
7	1RV20CV035	DHAVAN M	
8	1RV20CV014	ANSHUL DHABHAI	Design and draw plan and elevation to a suitable scale of syphon aqueduct type III
9	1RV20CV032	DEEPAK KUMAR	
10	1RV21CV410	VIDYA S	
11	1RV20CV058	LEKIREDDY JAI DEEP REDDY	
12	1RV20CV025	CHALLA NEHA	
13	1RV20CV097	SARIPUTI YAMUNA	
14	1RV20CV123	VIDYA H S	
15	1RV21CV409	SRINIVAS B R	
16	1RV19CV066	PRAJWAL M S	
17	1RV20CV019	B M DHANUSH	

18	1RV20CV114	SYED AQIB ASHIQ	Design and plan and elevation to a suitable scale of a syphon aqueduct type III
19	1RV20CV125	VINAY M	
20	1RV20CV130	YASHWANTH K V	
21	1RV20CV037	GIRINDRA SHEKHAR	
22	1RV21CV403	KAVANA V	Design and draw plan and elevation to a suitable scale of a Trapezoidal notch fall of 2 meters with the following data. Assume coefficient of discharge for trapezoidal notch as 0.70.
23	1RV20CV018	ASHWIN MADHU	
24	1RV20CV066	NEERAJ KUMAR RAMTEKE	
25	1RV20CV120	TRISHA H BADODAGI	
26	1RV20CV121	TUSHAR BORAR	
27	1RV20CV116	TEHSEEN TAJ M	
28	1RV20CV050	K ROJA	
29	1RV20CV064	MUKUL GANDHI	Design and draw plan and elevation to a suitable scale of a sluice taking off from a tank Irrigating 225 hectares at 1000 duty.
30	1RV20CV128	VISMAYA E GOWDA	
31	1RV20CV084	PUNITH K S	
32	1RV20CV004	ADITYAA RAJKUMAR KUMANI	
33	1RV20CV085	RAHUL	
34	1RV20CV113	SUSHMA SOMANAGOUDA PATIL	
35	1RV20CV056	KUSHAL M	
36	1RV20CV095	SAIQUAL FRAZ	Design and draw plan and elevation to a suitable scale of a regulator-cum-road bridge
37	1RV20CV094	SAI SAHARSH M	
38	1RV20CV100	SHIVANSHU SHAISHAV	
39	1RV20CV074	PIYUSH KUMAR	
40	1RV20CV124	VINAY KULKARNI	
41	1RV21CV406	PRUTHVIRAJ T N	
42	1RV20CV087	RAHUL M	
43	1RV20CV083	PRUTHVIK H KUMAR	Design a sluice taking off from a tank irrigating 160 hectares at an average duty of 700 hectares/cumecs The earthen dam of an irrigation tank
44	1RV20CV111	SUPREETH P	
45	1RV20CV106	SRUSHTI K	
46	1RV21CV405	PRAVEEN KUMAR D N	
47	1RV20CV016	APPASAB PATIL	
48	1RV21CV402	KANTHARAJU P	
49	1RV20CV109	SUMEDH JAIN	
50	1RV20CV048	GNANESHWAR K	Design a regulator cum road bridge with the
51	1RV20CV096	SAMEEKSHA KOTHARI	
52	1RV20CV045	HIMA B	
53	1RV21CV411	YASHAVANTHKUMAR B	
54	1RV20CV102	SIDDHARTH	
55	1RV21CV401	DODDABASAVA	
56	1RV20CV059	M ADARSH R NAYAK	
57	1RV20CV101	SHIVSAGAR	
58	1RV20CV098	SATYAM KUMAR	
59	1RV20CV062	MAYANK AGARWAL	

60	1RV20CV007	AMAR CHOUHAN	Design a canal drop (Notch type) for the
61	1RV20CV046	JONNALAGADDA GOWTHAM KRISHNA	
62	1RV21CV404	OMKAR GARJE	
63	1RV20CV122	UJWAL S C	
64	1RV20CV129	VISWAVIJAY KUMAR	Design details of a canal regulator is as follows. Particulars Upstream Downstream Full Supply Discharge (FSQ) m3/s
65	1RV20CV086	RAHUL B DYAMANAGOUDRA	
66	1RV20CV052	KEERTHI E	
67	1RV20CV075	POOJARI YUVA NANDKUMAR	
68	1RV20CV078	PRADHYUMNA ZALKI	
69	1RV21CV407	RAJASHEKHAR K	
70	1RV20CV008	AMBUJ AGRAWAL	
71	1RV20CV093	SAHANA Y	Design the surplus work of a tank forming part of a chain of tanks.Combined catchment area 25.89 sq.kmIntercepted catchment area 20.71 sq.km
72	1RV20CV077	PRADEEP R KAMBLE	
73	1RV20CV090	RAJASHEKHAR C HOSAMANI	
74	1RV20CV005	AKASH D HONGAL	
75	1RV20CV061	MANOJ KITTUR	
76	1RV20CV103	SIDDU PATIL	
77	1RV21CV400	DARSHAN N YADAV	Design (Hydraulic design only) a suitable cross-drainage work given the following data at the crossing of a canal and a drainage. Canal
78	1RV20CV089	RAHUL S	
79	1RV20CV041	HARSHAVARDHAN R	
80	1RV20CV038	HARDHIK	
81	1RV20CV068	NIKHIL SINGH	
82	1RV20CV069	NITISH S	
83	1RV20CV092	SACHIN S KADANIKAR	
84	1RV20CV047	K B SANATH KUMAR	Design and draw plan and elevation to a suitable scale of a regulator-cum-road bridge
85	1RV20CV013	ANJAN S MARUTHI	
86	1RV20CV115	TANMAY YUWARAJ PATIL	
87	1RV20CV071	OJASWITA SINGH	
88	1RV21CV408	ROSHAN UMESH NAIK	
89	1RV20CV020	BALRAJ SINGH TAGORE	
90	1RV20CV126	VINAY VUNDAVALLI	
91	1RV20CV012	ANANYA S	Design and plan and elevation to a suitable scale of a syphon aqueduct type III
92	1RV20CV030	DARSHAN GOWDA M	
93	1RV20CV031	DEEKSHITH N	
94	1RV20CV006	AKSHAY S	
95	1RV20CV073	P TEJAS GOWDA	
96	1RV20CV043	HARSHITHA A V	
97	1RV20CV070	NOOKARAPU SINDHU HARIKA	

Course :- **Course: Advanced Structural Analysis 22MST1B1T**

2023-24

Sl No	USN	Name	TOPICS
1	1RV23CSE01	ADARSHGOUDA M MUDIGOUDAR	Introduction and Explanation about shear center and steps to locate shear center
2	1RV23CSE02	AKASHDEEP R ANDANUR	Shear centre for an equal angle section, Deriving an expression to locate shear centre for an equal angle section
3	1RV23CSE03	DARSHAN V N	Shear centre for a semicircle: Deriving an expression to locate shear centre for semicircular ring
4	1RV23CSE04	DIKSHA PAWAR	Bending and torsion explained using different types of models
5	1RV23CSE05	HEMANTH R	shear centre for channel section: Deriving an expression to locate shear centre for channel section
6	1RV23CSE06	HEMANTH V PATEL	Location of neutral axis, Deriving an expression to find the location of neutral axis in a beam under unsymmetrical bending. Applying the derived concept into a numerical problem.
7	1RV23CSE07	INCHARA K S	Deflection of beam under unsymmetrical bending, Deriving an expression to calculate deflection in a beam under unsymmetrical bending.
8	1RV23CSE08	MOHAMMED AMEEN	Resolution of bending moment into two components along principal axes: Derivation to resolve the BM into components.
9	1RV23CSE09	NESARA D A	Bending stress in beams subjected to unsymmetrical bending.
10	1RV23CSE10	PRAJWAL C	Introduction & centroidal principal axes of a section:
11	1RV23CSE11	PRAJWAL GOWDA N	Introducing the concept of unsymmetrical bending and to understand the principal centroidal axes of a section.
12	1RV23CSE12	PRAJWAL S N	Deflection of beam under unsymmetrical bending: Numerical problem
13	1RV23CSE13	ROHAN D J	Curved beams, Introduction, assumptions, derivation of WINKLER BACH equation,
14	1RV23CSE14	SAMREEN	Radius to the neutral surface of simple geometric figures, Limitation,
15	1RV23CSE15	SHIVANI S	Stress distribution in open curved members such as Hooks and chain links,
16	1RV23CSE16	SONA B V	Deformations of open and closed rings.
17	1RV23CSE17	VINAY N	Radius to the neutral surface of simple geometric figures, Limitation,
18	1RV23CSE18	YASHASWI N	Stress distribution in closed rings and chain links

Name of Course:- Concrete Technology CV234AI

Sl No	**Admission No.**	Name	EL Topic
1	1RV22CV001	ABHIJIT DUTTA	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement
2	1RV22CV002	ABHINAV MANDA	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
3	1RV22CV004	ADITYA SHETTAR	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)
4	1RV22CV005	AJAY	Transporting, Placing, Compaction and Curing, Importance of Curing and Methods of Curing, Segregation, Bleeding
5	1RV22CV006	AKASH KUMAR SINGH	Workability: Factors affecting workability, Measurement by various
6	1RV22CV007	AKSHAT SHEKHAR JHA	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
7	1RV22CV009	AMITH GOWDA M P	Chemical admixtures. Action of plasticizers, Water reducers, super plasticizers, accelerators, retarders, air entraining admixtures
8	1RV22CV010	ANAND KUMAR	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
9	1RV22CV011	ANIKA SURESH	Durability: Significance of Durability in concrete – Cracking, chemical attack, Alkali aggregate reaction, Permeability, water absorption
10	1RV22CV012	ANKESH RANJAN	Strength: Compressive Strength Factors affecting, Abrams' law, Importance of Strength development with age, Maturity concept (Numerical Problems)
11	1RV22CV013	ARJUN P V	Accelerated curing, Relation between compressive and tensile strength, Flexural strength, Methods of finding the strength, Modulus of Elasticity and Acceptance Criteria.
12	1RV22CV014	ARYAN KUMAR	tests, Rebound hammer test, Ultra sonic pulse velocity test, Penetration and pull-out test, Profometer, Semi Destructive tests
13	1RV22CV015	BHARATH KUMAR G	Significance and objectives of concrete mixproportioning, General

			Considerations, Mix proportioning using IS 10262: 2019 method (Numerical problems on conventional concrete and concrete with fly ash
14	1RV22CV017	BRUNDA K S	Mix proportioning using IS 10262: 2019 method , Mix design of concrete with concrete with GGBS, High-strength Concrete), Quality control, Frequency of testing
15	1RV22CV018	CHANDANA V R	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement
16	1RV22CV019	CHINMAYA R	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
17	1RV22CV020	DAKSHAK H	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)
18	1RV22CV021	DARSHAN P	Transporting, Placing, Compaction and Curing, Importance of Curing and Methods of Curing, Segregation, Bleeding
19	1RV22CV022	DARSHAN R	Workability: Factors affecting workability, Measurement by various
20	1RV22CV023	DEEKSHITH J	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
21	1RV22CV024	DEEPTI K M	Chemical admixtures. Action of plasticizers, Water reducers, super plasticizers, accelerators, retarders, air entraining admixtures
22	1RV22CV025	DEV	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
23	1RV22CV028	DILIP M GOWDA	Durability: Significance of Durability in concrete – Cracking, chemical attack, Alkali aggregate reaction, Permeability, water absorption
24	1RV22CV029	GIRISH P ALUR	Strength: Compressive Strength Factors affecting, Abrams' law, Importance of Strength development with age, Maturity concept (Numerical Problems)
25	1RV22CV030	GURURAM C S	Accelerated curing, Relation between compressive and tensile strength, Flexural strength, Methods of finding the strength, Modulus of Elasticity and Acceptance Criteria.
26	1RV22CV032	HARDIK RAJAN	tests, Rebound hammer test, Ultra sonic pulse velocity test, Penetration

			and pull-out test, Profometer, Semi Destructive tests
27	1RV22CV034	HARSH SHARMA	Significance and objectives of concrete mix proportioning, General Considerations, Mix proportioning using IS 10262: 2019 method (Numerical problems on conventional concrete and concrete with fly ash
28	1RV22CV035	HARSHA PATIL G C	Mix proportioning using IS 10262: 2019 method , Mix design of concrete with concrete with GGBS, High-strength Concrete), Quality control, Frequency of testing
29	1RV22CV036	HARSHADEV K BARSE	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement
30	1RV22CV037	HARSHITH L	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
31	1RV22CV039	HITESH VIHAN H K	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)
32	1RV22CV041	JAYATHEERTHA SG	Transporting, Placing, Compaction and Curing, Importance of Curing and Methods of Curing, Segregation, Bleeding
33	1RV22CV042	K DHANUSH	Workability: Factors affecting workability, Measurement by various
34	1RV22CV043	K LALRINHLUZUALA	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
35	1RV22CV044	KAVYA T	Chemical admixtures. Action of plasticizers, Water reducers, super plasticizers, accelerators, retarders, air entraining admixtures
36	1RV22CV045	KHUSHI T	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
37	1RV22CV046	KIRAN TONDIHAL	Durability: Significance of Durability in concrete – Cracking, chemical attack, Alkali aggregate reaction, Permeability, water absorption
38	1RV22CV047	KRISHNA REDDY	Strength: Compressive Strength Factors affecting, Abrams' law, Importance of Strength development with age, Maturity concept (Numerical Problems)

39	1RV22CV048	KUSHAL A NAIK	Accelerated curing, Relation between compressive and tensile strength, Flexural strength, Methods of finding the strength, Modulus of Elasticity and Acceptance Criteria.
40	1RV22CV049	LAVANYA N	tests, Rebound hammer test, Ultra sonic pulse velocity test, Penetration and pull-out test, Profometer, Semi Destructive tests
41	1RV22CV050	MADHU K J	Significance and objectives of concrete mixproportioning, General Considerations, Mix proportioning using IS 10262: 2019 method (Numerical problems on conventional concrete and concrete with fly ash
42	1RV22CV051	MADHUSUDHAN S V	Mix proportioning using IS 10262: 2019 method , Mix design of concrete with concrete with GGBS, High-strength Concrete), Quality control, Frequency of testing
43	1RV22CV052	MAKTUMSAB IMAMASAB MULLA	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement
44	1RV22CV053	MANISH S	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
45	1RV22CV054	MAURYA K KUBER	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)
46	1RV22CV055	MAYANK MISHRA	Transporting, Placing, Compaction and Curing, Importance of Curing and Methods of Curing, Segregation, Bleeding
47	1RV22CV056	MINGKILING PERTIN	Workability: Factors affecting workability, Measurement by various
48	1RV22CV057	MOHAMMED HARIS	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
49	1RV22CV058	MOHAMMED ZAINULLA BUDEEN	Chemical admixtures. Action of plasticizers, Water reducers, super plasticizers, accelerators, retarders, air entraining admixtures
50	1RV22CV059	MOHITH P L	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
51	RVCE23BCV400	DHARSHAN K V	Durability: Significance of Durability in concrete – Cracking, chemical

			attack, Alkali aggregate reaction, Permeability, water absorption
52	RVCE23BCV401	PRAVEEN M	Strength: Compressive Strength Factors affecting, Abrams' law, Importance of Strength development with age, Maturity concept (Numerical Problems)
53	RVCE23BCV402	MOHAMMED ILIYAS	Accelerated curing, Relation between compressive and tensile strength, Flexural strength, Methods of finding the strength, Modulus of Elasticity and Acceptance Criteria.
54	RVCE23BCV403	FAIZAN AHMED B	tests, Rebound hammer test, Ultra sonic pulse velocity test, Penetration and pull-out test, Profometer, Semi Destructive tests
55	RVCE23BCV404	PRIYA SIDDALINGESH HUGAR	Significance and objectives of concrete mix proportioning, General Considerations, Mix proportioning using IS 10262: 2019 method (Numerical problems on conventional concrete and concrete with fly ash
56	RVCE23BCV405	NAVEEN B	Mix proportioning using IS 10262: 2019 method , Mix design of concrete with concrete with GGBS, High-strength Concrete), Quality control, Frequency of testing
57	RVCE23BCV406	ADITYA CHOUGALA	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement
58	RVCE23BCV407	MANJUNATH G N	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
59	1RV22CV060	MOIRANGTHEM RENANJIT SINGH	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)
60	1RV22CV061	MR V MADHUKUMAR	Transporting, Placing, Compaction and Curing, Importance of Curing and Methods of Curing, Segregation, Bleeding
61	1RV22CV062	MUHAMMED SHAZ B	Workability: Factors affecting workability, Measurement by various
62	1RV22CV064	MUTHU RAJ S	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
63	1RV22CV065	NAGAESH KADAPPA	Chemical admixtures. Action of plasticizers, Water reducers, super

		BETAGERI	plasticizers, accelerators, retarders, air entraining admixtures
64	1RV22CV067	NIKHIL NARAYAN HAWALDAR	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
65	1RV22CV068	NIKHITA JAKKAPPA BIRADAR	Durability: Significance of Durability in concrete – Cracking, chemical attack, Alkali aggregate reaction, Permeability, water absorption
66	1RV22CV069	NIRANJAN MALLIKARJUN SINDHUR	Strength: Compressive Strength Factors affecting, Abrams' law, Importance of Strength development with age, Maturity concept (Numerical Problems)
67	1RV22CV070	PARASMANI PARAS	Accelerated curing, Relation between compressive and tensile strength, Flexural strength, Methods of finding the strength, Modulus of Elasticity and Acceptance Criteria.
68	1RV22CV071	POORNACHANDRA B K	tests, Rebound hammer test, Ultra sonic pulse velocity test, Penetration and pull-out test, Profometer, Semi Destructive tests
69	1RV22CV072	PRADEEP S	Significance and objectives of concrete mix proportioning, General Considerations, Mix proportioning using IS 10262: 2019 method (Numerical problems on conventional concrete and concrete with fly ash
70	1RV22CV073	PRAGATHI B	Mix proportioning using IS 10262: 2019 method , Mix design of concrete with concrete with GGBS, High-strength Concrete), Quality control, Frequency of testing
71	1RV22CV075	PRAJWAL C	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement
72	1RV22CV076	PRAJWAL K GOWDA	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
73	1RV22CV077	PRANJAL AGRAWAL	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)
74	1RV22CV078	PRASHASTI JAISWAL	Transporting, Placing, Compaction and Curing, Importance of Curing and Methods of Curing, Segregation, Bleeding
75	1RV22CV079	PRIYANSH AGARWAL	Workability: Factors affecting workability, Measurement by various

76	1RV22CV080	RADHE NITIN	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
77	1RV22CV081	RAHUL	Chemical admixtures. Action of plasticizers, Water reducers, super plasticizers, accelerators, retarders, air entraining admixtures
78	1RV22CV082	RAKSHITHA B SIDDAPPA	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
79	1RV22CV083	REVATHI M	Durability: Significance of Durability in concrete – Cracking, chemical attack, Alkali aggregate reaction, Permeability, water absorption
80	1RV22CV084	RHYTHM AGARWAL	Strength: Compressive Strength Factors affecting, Abrams' law, Importance of Strength development with age, Maturity concept (Numerical Problems)
81	1RV22CV085	ROHAN C	Accelerated curing, Relation between compressive and tensile strength, Flexural strength, Methods of finding the strength, Modulus of Elasticity and Acceptance Criteria.
82	1RV22CV087	S BALAJI SAGAR	tests, Rebound hammer test, Ultra sonic pulse velocity test, Penetration and pull-out test, Profometer, Semi Destructive tests
83	1RV22CV088	S PREMSAI	Significance and objectives of concrete mix proportioning, General Considerations, Mix proportioning using IS 10262: 2019 method (Numerical problems on conventional concrete and concrete with fly ash
84	1RV22CV089	SACHIN REDDY	Mix proportioning using IS 10262: 2019 method , Mix design of concrete with concrete with GGBS, High-strength Concrete), Quality control, Frequency of testing
85	1RV22CV090	SADHANA C K	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement
86	1RV22CV091	SADIQ SAIDUSAB MUDDAPUR	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
87	1RV22CV092	SAGNIK GOSWAMI	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)

88	1RV22CV093	SAHIL BHANAWAT	Transporting, Placing, Compaction and Curing, Importance of Curing and Methods of Curing, Segregation, Bleeding
89	1RV22CV095	SATHYA SAGAR D	Workability: Factors affecting workability, Measurement by various
90	1RV22CV097	SHASHANK KABADAR	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
91	1RV22CV100	SHREYA BELAVI	Chemical admixtures. Action of plasticizers, Water reducers, super plasticizers, accelerators, retarders, air entraining admixtures
92	1RV22CV101	SHREYA SANGANGOUDA	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
94	1RV22CV103	SHREYAS S	Durability: Significance of Durability in concrete – Cracking, chemical attack, Alkali aggregate reaction, Permeability, water absorption
95	1RV22CV104	SOMASHEKAR L	Strength: Compressive Strength Factors affecting, Abrams' law, Importance of Strength development with age, Maturity concept (Numerical Problems)
96	1RV22CV105	SRIJITA BHATTACHARJEE	Accelerated curing, Relation between compressive and tensile strength, Flexural strength, Methods of finding the strength, Modulus of Elasticity and Acceptance Criteria.
97	1RV22CV106	SUBENDU KR DAS	tests, Rebound hammer test, Ultra sonic pulse velocity test, Penetration and pull-out test, Profometer, Semi Destructive tests
98	1RV22CV107	SUDEEP R SIRUR	Significance and objectives of concrete mix proportioning, General Considerations, Mix proportioning using IS 10262: 2019 method (Numerical problems on conventional concrete and concrete with fly ash
99	1RV22CV109	SUDIPTHI S M	Mix proportioning using IS 10262: 2019 method , Mix design of concrete with concrete with GGBS, High-strength Concrete), Quality control, Frequency of testing
100	1RV22CV110	SUPRITH S N	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement

101	1RV22CV111	SWEEKRUTH K H	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
102	1RV22CV112	TEJAS R	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)
103	1RV22CV114	U SUJAL AHMED	Transporting, Placing, Compaction and Curing, Importance of Curing and Methods of Curing, Segregation, Bleeding
104	1RV22CV115	UTKARSH AMARESH	Workability: Factors affecting workability, Measurement by various
105	1RV22CV116	UTKARSH BHARTI	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
106	1RV22CV117	VACHAN H	Chemical admixtures. Action of plasticizers, Water reducers, super plasticizers, accelerators, retarders, air entraining admixtures
107	1RV22CV118	VIKAS A M	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
108	1RV22CV119	VISHNU S	Durability: Significance of Durability in concrete – Cracking, chemical attack, Alkali aggregate reaction, Permeability, water absorption
109	1RV22CV120	VISHNU SINGH	Strength: Compressive Strength Factors affecting, Abrams' law, Importance of Strength development with age, Maturity concept (Numerical Problems)
110	1RV22CV121	VISHRUTH J	Accelerated curing, Relation between compressive and tensile strength, Flexural strength, Methods of finding the strength, Modulus of Elasticity and Acceptance Criteria.
111	1RV22CV122	VISHWA KIRAN KULKARNI	tests, Rebound hammer test, Ultra sonic pulse velocity test, Penetration and pull-out test, Profometer, Semi Destructive tests
112	RVCE23BCV408	PRAVEEN HONAKERI	Significance and objectives of concrete mix proportioning, General Considerations, Mix proportioning using IS 10262: 2019 method (Numerical problems on conventional concrete and concrete with fly ash
113	RVCE23BCV409	ABHIMANYU KUMARAPPA NAYAKA K P	Mix proportioning using IS 10262: 2019 method , Mix design of concrete with concrete with GGBS,

			High-strength Concrete), Quality control, Frequency of testing
114	RVCE23BCV410	SHARATH KUMAR B	Manufacturing of cement (dry and wet process), Hydraulic Cement, Bogue's compounds, Types of cement
115	RVCE23BCV411	YASHASWINI N M	Hydration, product of hydration and its importance, importance of water cement ratio, Transition zone
116	RVCE23BCV413	SRUSHTI ASHOK KOSHTI	brief description of field and laboratory testing of cement, water and its quality, Gel-space ratio (Numerical problems)
117	RVCE23BCV414	RAKSHITA P MAGAJI	, Recommendations of IS: 456-2000 - Sampling procedure, Acceptance criteria, Rheology- Importance, Bingham Parameters
118	RVCE23BCV415	HOKRANI THOUFIQ	Chemical admixtures. Action of plasticizers, Water reducers, super plasticizers, accelerators, retarders, air entraining admixtures
119	RVCE23BCV416	A ABHISHEK	Mineral admixtures: GGBS, Fly-ash, metakaolin, silica fume
120	RVCE23BCV417	VAIBHAV DHARNENDRA PALLED	Durability: Significance of Durability in concrete – Cracking, chemical attack, Alkali aggregate reaction, Permeability, water absorption

Name of the Course : Mechanics of Materials 21CV33

Year: 2022-23

Sl No	USN	Name	EL Topic
1	1RV20CV021	BANKA JAYANTH REDDY	Machine learning models for prediction of strength of concrete
2	1RV20CV118	TEJAS K	ANN for prediction of strength of Materials of concrete
3	1RV20CV119	TEJAS S KUMAR	Study on Sustainable Building Blocks-Bio Blocks
4	1RV21CV001	ABHAY AKSHAY BAMMA	Smart Materials
5	1RV21CV002	ABHAY YADAV K A	Virtual Experiments for Materials testing
6	1RV21CV003	ABHIJEET PANDEY	Sensors for Material testing-Case Study
7	1RV21CV004	ABHISHEK JHA	Composites in Civil Engineering
8	1RV21CV005	ABHISHEK V	Machine learning models for prediction of strength of composites
9	1RV21CV006	ADHISH AJARAJ GALGALI	ANN for prediction of strength of Materials of masonry
10	1RV21CV007	ADITHYA V	ANN for prediction of strength of Materials of composites
11	1RV21CV008	ADITYA RAJ	Machine learning models for prediction of strength of concrete
12	1RV21CV009	ADITYA RANJAN	ANN for prediction of strength of Materials of concrete
13	1RV21CV010	ADRITA MAITY	Study on Sustainable Building Blocks-Bio Blocks
14	1RV21CV011	AKARSH RAJ	Smart Materials
15	1RV21CV012	ALLUM PRAVEK	Virtual Experiments for Materials testing
16	1RV21CV013	AMAN TRIPATHI	Sensors for Material testing-Case Study
17	1RV21CV014	AMOGH N GUPTHA	Composites in Civil Engineering
18	1RV21CV015	ANDEY SOURYA	Machine learning models for prediction of strength of composites
19	1RV21CV016	ANKIT ANAND	ANN for prediction of strength of Materials of masonry
20	1RV21CV017	ARYAMAN SINGH	ANN for prediction of strength of Materials of composites
21	1RV21CV018	ASHISH RANJAN	Machine learning models for prediction of strength of concrete
22	1RV21CV019	AYUSH KUMAR	ANN for prediction of strength of Materials of concrete
23	1RV21CV020	B DHANUSH	Study on Sustainable Building Blocks-Bio Blocks
24	1RV21CV021	B KRISHNA CHAITANYA	Smart Materials

25	1RV21CV022	B R ROHITH	Virtual Experiments for Materials testing
26	1RV21CV023	BASAVANAPPA	Sensors for Material testing-Case Study
27	1RV21CV024	BHARAVI C V	Composites in Civil Engineering
28	1RV21CV025	BHARGAV A D GOWDA	Machine learning models for prediction of strength of composites
29	1RV21CV026	BHARGAVA NANDEESH E (SPARK)	ANN for prediction of strength of Materials of masonry
30	1RV21CV027	BHUVAN M	ANN for prediction of strength of Materials of composites
31	1RV21CV028	BHUVAN N	Machine learning models for prediction of strength of concrete
32	1RV21CV029	CAROL ZACHARIAH	ANN for prediction of strength of Materials of concrete
33	1RV21CV030	CHAITANYA R MAHADEVAN	Study on Sustainable Building Blocks-Bio Blocks
34	1RV21CV031	CHANDAN R	Smart Materials
35	1RV21CV032	CHINMAYA SWAROOP R	Virtual Experiments for Materials testing
36	1RV21CV033	DARSHAN H	Sensors for Material testing-Case Study
37	1RV21CV034	DEEKSHA R	Composites in Civil Engineering
38	1RV21CV035	DEEKSHA SINGH	Machine learning models for prediction of strength of composites
39	1RV21CV036	DEEPAK S	ANN for prediction of strength of Materials of masonry
40	1RV21CV037	G PAWAN YADAV	ANN for prediction of strength of Materials of composites
41	1RV21CV038	GAJENDRA R POWER	Machine learning models for prediction of strength of concrete
42	1RV21CV039	GANESH PATIL R P	ANN for prediction of strength of Materials of concrete
43	1RV21CV040	GURUNATH REDDY	Study on Sustainable Building Blocks-Bio Blocks
44	1RV21CV041	GURURAJ KAMBALI	Smart Materials
45	1RV21CV042	GYANESH SRIVASTAVA	Virtual Experiments for Materials testing
46	1RV21CV044	HEMANTH Y N	Sensors for Material testing-Case Study
47	1RV21CV045	HIMANSHU RAJ	Composites in Civil Engineering
48	1RV21CV046	HULIRAJ	Machine learning models for prediction of strength of composites
49	1RV21CV047	HULUGANNA	ANN for prediction of strength of Materials of masonry
50	1RV21CV048	JAYARAJ G	ANN for prediction of strength of Materials of composites
51	1RV21CV049	JEEVAN K	Machine learning models for prediction of strength of concrete
52	1RV21CV050	KARTHIK G	ANN for prediction of strength of Materials of concrete

53	1RV21CV051	KASHISH DOKANIA	Study on Sustainable Building Blocks-Bio Blocks
54	1RV21CV052	KUNAL KUMAR SHARMA	Smart Materials
55	1RV21CV053	LALIT VIJAY	Virtual Experiments for Materials testing
56	1RV21CV054	LOHITH V	Sensors for Material testing-Case Study
57	1RV21CV055	M B DEEKSHA GOWDA	Composites in Civil Engineering
58	1RV21CV056	MADHUSUDHAN G B	Machine learning models for prediction of strength of composites
59	1RV21CV057	MADIHA Z MUJAWAR	ANN for prediction of strength of Materials of masonry
60	1RV21CV058	MALLIKARJUN	ANN for prediction of strength of Materials of composites
61	1RV21CV059	MANOJ	Machine learning models for prediction of strength of concrete
62	1RV21CV060	MANOJ R	ANN for prediction of strength of Materials of concrete
63	1RV21CV061	MANOJ T	Study on Sustainable Building Blocks-Bio Blocks
64	1RV21CV062	MD ZEESHAN KHAN	Machine learning models for prediction of strength of concrete
65	1RV21CV063	NANDAN N REDDY	ANN for prediction of strength of Materials of concrete
66	1RV21CV064	NARENDRA N	Study on Sustainable Building Blocks-Bio Blocks
67	1RV21CV065	NAVYASHREE	Smart Materials
68	1RV21CV066	NEIL VERMA	Virtual Experiments for Materials testing
69	1RV21CV067	NIKITA ANAND	Sensors for Material testing-Case Study
70	1RV21CV068	OMKAR KUMAR	Composites in Civil Engineering
71	1RV21CV069	PANTHADI SAINATH	Machine learning models for prediction of strength of composites
72	1RV21CV070	PIYUSH PRATAP SINGH	ANN for prediction of strength of Materials of masonry
73	1RV21CV071	POORVIK V	ANN for prediction of strength of Materials of composites
74	1RV21CV072	PRAJWAL BASAVARAJ KARENNAVAR	Machine learning models for prediction of strength of concrete
75	1RV21CV073	PRAJWAL M	ANN for prediction of strength of Materials of concrete
76	1RV21CV074	PRAKRUTHI RAJ Y D	Study on Sustainable Building Blocks-Bio Blocks
77	1RV21CV075	PRASHANTH D	Smart Materials
78	1RV21CV076	PRISHITHA T	Virtual Experiments for Materials testing
79	1RV21CV077	PRIYANSHU PRAVEEN	Sensors for Material testing-Case Study

80	1RV21CV078	PRUTHVI H R	Composites in Civil Engineering
81	1RV21CV079	PURVANKARA D	Machine learning models for prediction of strength of composites
82	1RV21CV080	RAGHAVENDRA MAHANTESH NIDASANUR	ANN for prediction of strength of Materials of masonry
83	1RV21CV081	RAHUL J	ANN for prediction of strength of Materials of composites
84	1RV21CV082	RAKSHIT C M (SPARK)	Machine learning models for prediction of strength of concrete
85	1RV21CV083	RANJITH S	ANN for prediction of strength of Materials of concrete
86	1RV21CV084	RISHAV RAJ	Study on Sustainable Building Blocks-Bio Blocks
87	1RV21CV085	SACHIN M	Smart Materials
88	1RV21CV086	SAGAR DUDDAGI	Virtual Experiments for Materials testing
89	1RV21CV087	SAGAR R	Sensors for Material testing-Case Study
90	1RV21CV088	SAKSHAM SINGH	Composites in Civil Engineering
91	1RV21CV089	SANJANA POOJAR	Machine learning models for prediction of strength of composites
92	1RV21CV090	SHAIK MOHAMMED MUZZAMMIL	ANN for prediction of strength of Materials of masonry
93	1RV21CV091	SHAMBHAVI SINGH	ANN for prediction of strength of Materials of composites
94	1RV21CV092	SHARAD P M	Machine learning models for prediction of strength of concrete
95	1RV21CV093	SHARANAGOWDA	ANN for prediction of strength of Materials of concrete
96	1RV21CV094	SHARANKUMAR	Study on Sustainable Building Blocks-Bio Blocks
97	1RV21CV095	SHASHANK UIKE	Smart Materials
98	1RV21CV096	SHASHWAT KRISHNA	Virtual Experiments for Materials testing
99	1RV21CV097	SHRUJAN S BODH	Sensors for Material testing-Case Study
100	1RV21CV098	SIDDARAM	Composites in Civil Engineering
101	1RV21CV099	SIDDHARTHA THUKRAL	Machine learning models for prediction of strength of composites
102	1RV21CV100	SOUNDARYA DAS (SPARK)	ANN for prediction of strength of Materials of masonry
103	1RV21CV101	SPARSH RAWAT (SPARK)	ANN for prediction of strength of Materials of composites
104	1RV21CV102	SPOORTHY R	Machine learning models for prediction of strength of concrete
105	1RV21CV103	SRUJAN G	ANN for prediction of strength of Materials of concrete
106	1RV21CV104	SUDHANSHU DUBEY	Study on Sustainable Building Blocks-Bio Blocks
107	1RV21CV105	SURAJ R S	Smart Materials

108	1RV21CV106	SUSHIL RANJAN	Virtual Experiments for Materials testing
109	1RV21CV107	SUYASH PRATAP SINGH	Sensors for Material testing-Case Study
110	1RV21CV108	TASSO SIYA	Composites in Civil Engineering
111	1RV21CV109	TUSHAR ACHARYA	Machine learning models for prediction of strength of composites
112	1RV21CV110	TUSHAR KUMAR	ANN for prediction of strength of Materials of masonry
113	1RV21CV111	UTKARSH	ANN for prediction of strength of Materials of composites
114	1RV21CV112	UTKARSH PATEL	Machine learning models for prediction of strength of concrete
115	1RV21CV113	V BHANDAV BABU	ANN for prediction of strength of Materials of concrete
116	1RV21CV114	VARAVEESH K V	Study on Sustainable Building Blocks-Bio Blocks
117	1RV21CV115	VARSHITH REDDY J	Smart Materials
118	1RV21CV116	VARUN H S	Virtual Experiments for Materials testing
119	1RV21CV117	VIKAS V PADUKONE	Sensors for Material testing-Case Study
120	1RV21CV118	VINAMRATHA V	Composites in Civil Engineering
121	1RV21CV119	VISHNU GURUDUTT	Machine learning models for prediction of strength of composites
122	1RV21CV120	VIVEK MAHANTESH KALLOLLI	ANN for prediction of strength of Materials of masonry
123	1RV21CV121	YADUNANDAN R KAMBLI	ANN for prediction of strength of Materials of composites
124	1RV21CV122	YASH KARAN LUTHRA	Machine learning models for prediction of strength of concrete
125	1RV21CV123	YASHWANTH R	ANN for prediction of strength of Materials of concrete
126	1RV21CV124	YASHWANTHA H R (SPARK)	Study on Sustainable Building Blocks-Bio Blocks
127	1RV21CV125	YELLAREDDYGARI VINAY GOUTHAM REDDY	Machine learning models for prediction of strength of concrete

Name of the Course : 18CV62-Design and Drawing of Steel Structures **Year : 2022-23**

Sl No	USN	Name	EL Topic
1	1RV18CV050	KUMAR BALAJI G	Design of bolted Plate Girder
2	1RV20CV001	ABHISHEK B GAIKWAD	Design of Welded Plate girder
3	1RV20CV002	ADITHI J BATHI	Design of Gantry Girder
4	1RV20CV004	ADITYAA RAJKUMAR KUMANI	Design of Open web steel structures

5	1RV20CV005	AKASH DYAMAGOND HONGAL	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
6	1RV20CV006	AKSHAY S	Fire Protection of Steel Structures
7	1RV20CV007	AMAR CHOUHAN	Seismic Design of Steel Structures
8	1RV20CV008	AMBUJ AGRAWAL	Suatainable Design of steel structures
9	1RV20CV009	AMISHA SANTHOSH	Advanced Fabrication Techniques for Steel Structures
10	1RV20CV010	AMRUTH T D	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
11	1RV20CV011	AMUL	Design of bolted Plate Girder
12	1RV20CV012	ANANYA S	Design of Welded Plate girder
13	1RV20CV013	ANJAN S MARUTHI	Design of Gantry Girder
14	1RV20CV014	ANSHUL DHABHAI	Design of Open web steel structures
15	1RV20CV015	ANUSHA N NAGASHREE	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
16	1RV20CV016	APPASAB PATIL	Fire Protection of Steel Structures
17	1RV20CV018	ASHWIN MADHU	Seismic Design of Steel Structures
18	1RV20CV019	B M DHANUSH	Suatainable Design of steel structures
19	1RV20CV020	BALRAJ SINGH TAGORE	Advanced Fabrication Techniques for Steel Structures
20	1RV20CV022	BHUVAN U	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
21	1RV20CV023	BRINDA G N	Design of bolted Plate Girder
22	1RV20CV024	BYNENE VENKATESH	Design of Welded Plate girder
23	1RV20CV025	CHALLA NEHA	Design of Gantry Girder
24	1RV20CV026	CHANDRASHEKHAR TALLOLLI	Design of Open web steel structures
25	1RV20CV027	CHANDU H	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
26	1RV20CV028	CHINMAYANANDA S	Fire Protection of Steel Structures
27	1RV20CV029	CHINTHAN H C	Seismic Design of Steel Structures
28	1RV20CV030	DARSHAN GOWDA M	Suatainable Design of steel structures
29	1RV20CV031	DEEKSHITH N	Advanced Fabrication Techniques for Steel Structures
30	1RV20CV032	DEEPAK KUMAR	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
31	1RV20CV033	DEEPIKA R	Design of bolted Plate Girder
32	1RV20CV034	DEVANSH DANDOTIYA	Design of Welded Plate girder
33	1RV20CV035	DHAVAN M	Design of Gantry Girder
34	1RV20CV037	GIRINDRA SHEKHAR	Design of Open web steel structures

35	1RV20CV038	HARDHIK	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
36	1RV20CV041	HARSHAVARDHAN R	Fire Protection of Steel Structures
37	1RV20CV043	HARSHITHA A V	Seismic Design of Steel Structures
38	1RV20CV044	HEMANTH P GOWDA	Suatainable Design of steel structures
39	1RV20CV045	HIMA B	Advanced Fabrication Techniques for Steel Structures
40	1RV20CV046	JONNALAGADDA GOWTHAM KRISHNA	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
41	1RV20CV047	K B SANATH KUMAR	Design of bolted Plate Girder
42	1RV20CV048	K GNANESHWAR	Design of Welded Plate girder
43	1RV20CV049	K M NAGABHUSHAN	Design of Gantry Girder
44	1RV20CV050	K ROJA	Design of Open web steel structures
45	1RV20CV051	KARAN V	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
46	1RV20CV052	KEERTHI E	Fire Protection of Steel Structures
47	1RV20CV053	KRISHNA ANAND	Seismic Design of Steel Structures
48	1RV20CV054	KUMARSWAMY S	Suatainable Design of steel structures
49	1RV20CV055	KUSHAL B V	Advanced Fabrication Techniques for Steel Structures
50	1RV20CV056	KUSHAL M	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
51	1RV20CV058	LEKIREDDY JAI DEEP REDDY	Design of bolted Plate Girder
52	1RV20CV059	M ADARSH R NAYAK	Design of Welded Plate girder
53	1RV20CV060	MALESH KRISHNAPPA PUJER	Design of Gantry Girder
54	1RV20CV061	MANOJ KITTUR	Design of Open web steel structures
55	1RV20CV062	MAYANK AGARWAL	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
56	1RV20CV063	MEDHA CHANDRASHEKHAR MUNNOLI	Fire Protection of Steel Structures
57	1RV20CV064	MUKUL GANDHI	Seismic Design of Steel Structures
58	1RV20CV065	NAVNEET KUMAR	Suatainable Design of steel structures
59	1RV19CV066	PRAJWAL M S	Advanced Fabrication Techniques for Steel Structures
60	1RV20CV900	SUJITH KAMASANI SRINIVASA REDDY	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
61	1RV21CV400	DARSHAN N YADAV	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets
62	1RV21CV401	DODDABASAVA	Fire Protection of Steel Structures

63	1RV21CV403	KAVANA V	Seismic Design of Steel Structures
64	1RV21CV404	OMKAR GARJE	Suatainable Design of steel structures
65	1RV21CV408	ROSHAN UMESH NAIK	Advanced Fabrication Techniques for Steel Structures
66	1RV21CV411	YASHAVANTHKUMAR B	Analysis and Design of Steel structure using STAAD/ETABS/Spread Sheets

Name of the Course: Estimation & Costing 18CV64

Year: 2022-23

Sl No	USN	Name	EL Topic
1	1RV20CV066	NEERAJ KUMAR RAMTEKE	Typical tender document (2 Specimen samples)
2	1RV20CV068	NIKHIL SINGH	Labour act (Brief description & Case study)
3	1RV20CV069	NITISH S	Safety in construction site
4	1RV20CV070	NOOKARAPU SINDHU HARIKA	Resource management in construction site
5	1RV20CV071	OJASWITA SINGH	Contract management
67	1RV20CV073	P TEJAS GOWDA	Role & resposibility of Junior and Assistant Engineer
8	1RV20CV074	PIYUSH KUMAR	Typical contract document (2 Specimen samples)
9	1RV20CV075	POOJARI YUVA NANDA KUMAR	News paper notice to call tender(5 speciment samples)
10	1RV20CV076	POORVIK D	Legal terms to cancel contract
11	1RV20CV077	PRADEEP RAJU KAMBLE	Role of GST in Bill of Quantities
12	1RV20CV078	PRADHYUMNA ZALKI	Case study on estimation of quantities- Bus shelter
13	1RV20CV080	PRASHANT KUMAR	Labour management
14	1RV20CV081	PRATYUSHA K	Sanction of House loan- case study
15	1RV20CV082	PRIYANKA M	Role and responsibility of Site Engineer
16	1RV20CV083	PRUTHVIK H KUMAR	Rent Fixation- case study
17	1RV20CV084	PUNITH K S	Mortagage Loan -case study
18	1RV20CV085	RAHUL	Valuation of Real properties- Agriculture land
19	1RV20CV086	RAHUL B DYAMANAGOUDRA	Case study on estimation of quantities- Indira Canteen
20	1RV20CV087	RAHUL M	Quantity estimation of earthen embankment- case study
21	1RV20CV088	RAHUL RAJEEV NAIK	Real Estate- oppurtunity and threat to civil engineers
22	1RV20CV089	RAHUL S	Measurment book- illustrative case study
23	1RV20CV090	RAJASHEKHAR C HOSAMANI	Price escalation in construction industry

24	1RV20CV091	ROHAN LAKRA	Effects of demonitization in construction industry
25	1RV20CV092	SACHIN S KADANIKAR	Public private partnership-case study
26	1RV20CV093	SAHANA Y	Case study on estimation of quantities- foot ball ground(Typical)
27	1RV20CV094	SAI SAHARSH M	Infrastructure bond- brief description
28	1RV20CV095	SAIQUAL FRAZ	Typical work order (2 sample specimens)
29	1RV20CV096	SAMEEKSHA KOTHARI	Contract labour- brief description
30	1RV20CV097	SARIPUTI YAMUNA	Valuation of Immovable properties
31	1RV20CV098	SATYAM KUMAR	Role and responsibility of Chief engineer-CPWD
32	1RV20CV099	SHEETAL G NAIK	Land Acquisituion- case study
33	1RV20CV100	SHIVANSHU SHAISHAV	Building By-law- brief description
34	1RV20CV101	SHIVSAGAR	Demolition of illegal building case study- BMTF
35	1RV20CV102	SIDDHARTH	Appreciation and Depreciation of land-casestudy
36	1RV20CV103	SIDDU PATIL	Finance management in construction site- Case study
37	1RV20CV104	SOURABH DHAMANEKAR	safety protocol in construction site
38	1RV20CV105	SRIHARSHA JAVALI	Earth moving equipments-brief description
39	1RV20CV106	SRUSHTI K	Detailed project report (one specimen sample on roads)
40	1RV20CV108	SUMANTH REDDY R K	Fixation of wages- Labour to Engineer
41	1RV20CV109	SUMEDH JAIN	Role of Owner/ consultant in construction projects
42	1RV20CV110	SUNIL KHARNOTIA	Process of establishing company private company
43	1RV20CV111	SUPREETH P	Need of ISO certification for companies
44	1RV20CV113	SUSHMA SOMANAGOUDA PATIL	Employee Hirerachy- (Private construction sector)
45	1RV20CV114	SYED AQIB ASHIQ	Typical contract document (Painting and flooring work for indoor satadium)

46	1RV20CV115	TANMAY YUWARAJ PATIL	wages fixation for crane, rig operators- casestudy
47	1RV20CV116	TEHSEEN TAJ M	Hire charges of major and minor equipments in construction site
48	1RV20CV117	TEJAS GAUTAM	Requirement of site office and laboratory in construction site(typical example)
49	1RV20CV120	TRISHA H BADODAGI	BOT projects- case study
50	1RV20CV121	TUSHAR BORAR	Analysis of rates (10 worked examples)
51	1RV20CV122	UJWAL S C	Case study on estimation of quantities- statue of liberty
52	1RV20CV123	VIDYA H S	Asset management- brief description
53	1RV20CV124	VINAY KULKARNI	Operation and maintenance cost of National highways
54	1RV20CV125	VINAY M	Bandra warli sea link- Brief description of quanity estimation
55	1RV20CV126	VINAY VUNDAVALLI	Toll fixation on National Highways - case study
56	1RV20CV127	VISHAL	Typical layout planning Case study
57	1RV20CV128	VISMAYA E GOWDA	Approval of Blueprint (Case study on BBMP limits)
58	1RV20CV129	VISWAVIJAY KUMAR	Marketing strategis- selling residential appartments
59	1RV20CV130	YASHWANTH K V	Road taxes on construction equipments/machineries
60	1RV21CV402	KANTHARAJU P	Typical Cost estimation of Steel staircase
61	1RV21CV405	PRAVEEN KUMAR D N	Memorandum of Understanding
62	1RV21CV406	PRUTHVIRAJ T N	Letter of Intent
63	1RV21CV407	RAJASHEKHAR K	General power of autorny
64	1RV21CV408	ROSHAN UMESH NAIK	Sale deed
65	1RV21CV409	SRINIVAS B R	Typical rent/lease aggrement
66	1RV21CV410	VIDYA S	Reconciliation and demobilization of men, machinery and materials in construction site

Course : **Soil Mechanics (18CV46)**

Year: 2021-22

Sl No	USN	Name	EL Topic
1	1RV20CV125	VINAY M	Applications of geosynthetics in seepage
2	1RV20CV123	VIDYA H S	Applications of geosynthetics in seepage
3	1RV20CV130	YASHWANTH K V	Applications of geosynthetics in seepage
4	1RV20CV101	SHIVSAGAR	SOIL COMPACTION
5	1RV20CV095	SAIQUAL FRAZ	SOIL COMPACTION
67	1RV20CV096	SAMEEKSHA KOTHARI	SOIL COMPACTION
8	1RV20CV071	OJASWITA SINGH	Soil stabilization using Rice Husk Ash
9	1RV20CV0106	SRUSTHI KUMAR	Soil stabilization using Rice Husk Ash
10	1RV20CV074	PIYUSH KUMAR	Use of admixtures in soil compaction
11	1RV20CV100	SHIVANSHU	Use of admixtures in soil compaction
12	1RV20CV121	TUSHAR	Use of admixtures in soil compaction
13	1RV20CV129	VISWAVIJAY	Use of admixtures in soil compaction
14	1RV21CV405	PRAVEEN KUMAR D N	Improvement of Bearing Capacity of Soil
15	1RV21CV406	PRUTHVIRAJ T N	Improvement of Bearing Capacity of Soil
16	1RV21CV410	VIDYA S	Improvement of Bearing Capacity of Soil
17	1RV20CV073	P Tejas Gowda	Stabilisation of slope in land slide areas
18	1RV20CV122	Ujwal S C	Stabilisation of slope in land slide areas
19	1RV20CV070	N. Sindhu Harika	Differential Settlement in Soils
20	1RV20CV076	Poorvik D	soil structure interaction
21	1RV20CV082	Priyanka M	Differential Settlement in Soils
22	1RV20CV098	SATYAM KUMAR	Wastewater renovation using constructed soil filter (CSF)

23	1RV21CV407	RAJASHEKHAR K	Soil nailing for stabilization of slopes
24	1RV21CV409	SRINIVAS BR	Soil nailing for stabilization of slopes
25	1RV21CV402	Kantharaju p	Soil nailing for stabilization of slopes
26	1RV20CV069	Nitish S	Use of Rock Bolting in Geotechnical Applications
27	1RV20CV080	Prashant kumar	Use of Rock Bolting in Geotechnical Applications
28	1RV20CV083	Pruthvik H Kumar	Use of Rock Bolting in Geotechnical Applications
29	1RV20CV093	SAHANA Y	prevention and control of landslides
30	1RV20CV097	S YAMUNA	prevention and control of landslides
31	1RV20CV120	TRISHA H B	prevention and control of landslides
32	1RV20CV088	RAHUL RAJEEV NAIK	Shear strength characterstics of sand-gravel mixtures
33	1RV20CV081	PRATYUSHA K	Shear strength characterstics of sand-gravel mixtures
34	1RV20CV108	SUMANTH REDDY RK	Shear strength characterstics of sand-gravel mixtures
35	1RV20CV099	SHEETAL G NAIK	Shear strength characterstics of sand-gravel mixtures
36	1RV20CV114	SYED AQIB ASHIQ	Soil Cement Block
37	1RV20CV113	SUSHMA S PATIL	Soil Cement Block
38	1RV20CV104	SOURABH D	Soil Cement Block
39	1RV20CV110	SUNIL KHARNOTIA	how we reduce the risks of landslides
40	1RV20CV128	VISMAYA GOWDA	Soil stabilization using plastic
41	1RV20CV077	PRDEEP R KAMBLE	Engineering aspects of reinforced soil
42	1RV20CV127	VISHAL D H	Engineering aspects of reinforced soil
43	1RV20CV075	POOJARI YUVA NANDU KUMAR	Engineering aspects of reinforced soil
44	1RV20CV109	SUMEDH JAIN	LIME FLY ASH SOIL BLOCKS
45	1RV20CV111	SUPREETH P	LIME FLY ASH SOIL BLOCKS

46	1RV20CV089	RAHUL S	LIME FLY ASH SOIL BLOCKS
47	1RV20CV087	RAHUL M	LIME FLY ASH SOIL BLOCKS
48	1RV20CV094	SAI SAHARSH M	Geologic Hazards Subsidence, Collapsible Soils
49	1RV20CV102	SIDDHARTH	Geologic Hazards Subsidence, Collapsible Soils
50	1RV20CV105	SRIHARSHA JAVALI	Geologic Hazards Subsidence, Collapsible Soils
51	1RV20CV126	VINAY VUNDAVALLI	Geologic Hazards Subsidence, Collapsible Soils
52	1RV20CV066	NEERAJ KUMAR	CONSTRUCTING DEWATERING METHOD
53	1RV20CV116	TEHSEEN TAJ	CONSTRUCTING DEWATERING METHOD
54	1RV20CV117	Tejas gautam	CONSTRUCTING DEWATERING METHOD
55	1RV20CV103	SIDDU PATIL	Sedimentary Rocks
56	1RV20CV085	RAHUL	Sedimentary Rocks
57	1RV20CV090	RAJSHEKAR C HOSAMANI	Sedimentary Rocks
58	1RV20CV068	NIKHIL SINGH	ORIGIN OF SOIL AND ITS TYPES
59	1RV20CV092	SACHIN S K	ORIGIN OF SOIL AND ITS TYPES
60	1RV20CV124	VINAY KULKARNI	ORIGIN OF SOIL AND ITS TYPES

Name of the Course : Advanced Concrete Technology 18CV6C2

Year : 2021-22

Sl no.	USN	Student Name	Experiential learning Topic
1	1RV18CV038	GURUKIRAN NAIK B	Report on RMC Plant Operations
2	1RV18CV041	H R YASHAS	RMC Plant

		CHANDRA	
3	1RV19CV005	AFRIDEE KHAN	Evolution of Admixture in Concrete
4	1RV19CV011	AMRIT RAJ	Radiation shielding concrete
5	1RV19CV034	HEMASAGAR D M	Experimental study on the influence of steel fibre reinforcement on the properties of self-compacting concrete
6	1RV19CV037	JAGATH KUMAR	A Project report on Ready mix concrete plant
7	1RV19CV039	JAYANTH RAJU G S	Mix design using PYTHON
8	1RV19CV049	MANU B M	Self-Consolidating Concrete
9	1RV19CV076	ROHAN SHESHADRI	A project on Permeable Concrete
10	1RV19CV082	SANJAY T G	Translucent Concrete
11	1RV19CV091	SHOBHITHA H J	APP on construction material calculation
12	1RV19CV115	THEERTHA SWAROOP M	Developing excel sheet for ordinary and standard grades of concrete mix design
13	1RV19CV120	UMAR MAJEED	Report on Geopolymer Concrete
14	1RV19CV127	YUVARAJ D	Self-Healing Concrete
15	1RV20CV401	DILEEP S P	High strength concrete mix design as per IS 10262-2019 Using spreadsheet
16	1RV20CV404	NAVYAANJALI R	Analysis of Modulus of Elasticity of Concrete
17	1RV20CV405	ROOPA N	Case study on Fibre reinforced concrete
18	1RV20CV408	SHREESH SHIRGAONKAR	Videos on properties of concrete and workability experiments
19	1RV20CV410	VINAYAK SULGEKAR	Concrete Mix Design Code Using C++

Name of the Course : Soil Mechanics 18CV46

Year : 2020-21

Sl no.	USN	Student Name	Experiential learning Topic
1	1RV19CV004	Adnan H Kotawala	Soil Stabilisation Using Ground Granulated Blast Furnance Slag
2	1RV19CV005	Afridee Khan	Dilatancy and Shear strength of sand at low confining pressures
3	1RV19CV006	AJAY KALAL	Simulating shear behaviour of a sandy soil under different soil conditions
4	1RV19CV008	Akhilesh Chauhan	Assessment of Shear Failure Parameters for Sand-Clay Liners
5	1RV19CV003	ADHEEP T A	Drained Shear Strength of Compacted sand with clayey fines
6	1RV19CV012	Anil I Vannur	Effect of silt contents on the static and dynamic properties of sand-silt mixture.
7	1RV19CV013	ANNAPOORNA NYAMAGOUDR A	Field behavior of a Geogrid Reinforced retaining wall with a wrap-around facing
8	1RV19CV015	ANURAG JAISWAL	Soil Stabilized Mud Blocks Reinforced With Treated With Coconut Fibers
9	1RV19CV018	ASHIK DEEPAK SHET	VIBRO COMPACTION AND VIBRO REPLACEMENT
10	1RV19CV020	AVINASHKUMA R K	DIAPHRAGM WALL
11	1RV19CV021	BASHITHA V	SOIL DEGRADATION
12	1RV18CV022	BEERAPPA TORNE	Shear Strength Behavior of Soils Under Low Confining Pressure
13	1RV20CV400	Bharathkumar L U	The Fracturing of Rock Mass and Its Risks to Engineering Object
14	1RV19CV022	CHINMAY PRASAD S	Soil Nailing
15	1RV19CV023	Darshan CH 1RV19CV023	'FIBER REINFORCED SOIL'

16	1RV19CV024	DHANVIN C	'Soil cement in construction'
17	1RV20CV401	DILEEP S P	ENGINEERING ASPECTS OF REINFORCED SOIL
18	1RV19CV028	GAGAN B NAIK	STUDY OF MIGRATION OF CONTAMINANTS THROUGH SOIL COLUNM
19	1RV19CV029	GAGAN GOWDA K N	SOIL STABILIZATION WITH RICE HUSK ASH AND LIME SLUDGE
20	1RV18CV038	GURUKIRAN NAIK B	Effect of the clay and moisture content on direct shear tests for clay-sand mixtures
21	1RV19CV030	GURUKUMAR	Stabilization of Soils Using Geosynthetics
22	1RV19CV031	Harishnarayan K S	The Role of Soils In Purifying Wastewater Effluents
23	1RV19CV032	HARSH NARAYAN	Soil Stabilized Mud Blocks Reinforced With Treated With Coconut Fibers
24	1RV19CV033	Hemanth V Patel	STUDY ON STABLISIED SOIL BLOCKS
25	1RV19CV034	HEMASAGAR D M	Fly ash is generated in large quantities especially by thermal power plants
26	1RV19CV035	HITHESH A	Ground Improvement techniques using Basal reinforcement
27	1RV19CV036	HRUDHAY S	'Causes of Soil Liquefaction and How to prevent it'
28	1RV20CV402	ISHWARAJ	"STABILIZATION OF BLACK COTTON SOIL BY BIO ENZYMES"
29	1RV19CV037	JAGATH KUMAR	Ground Modification and Land Reclamation
30	1RV19CV041	KARTHIK N R	GEO TEXTILES
31	1RV19CV042	Khushi Vaibhavi	Slope stability analysis
32	1RV19CV044	KURUGUNDA MOHITH KUMAR	Erosion Control of Natural Slopes by Vegetative Turfing
33	1RV19CV045	L HIMA	Erosion control of natural slopes by Synthetic Geotextiles

34	1RV19CV046	LAKSHYA KHANDELWAL	'Erosion Control of Natural Slopes by natural fibre - Jute'
35	1RV19CV047	M SAI DHEERAJ	'Application of Coir Geotextile for Road Construction'
36	1RV19CV048	Mahanthesh S	Dynamic Earth Pressures on Flexible Retaining Walls
37	1RV19CV050	MD NASHIT AMEED	Ground Improvement techniques using wick drains
38	1RV19CV052	MEHREEN MIRCHAL	GROUND IMPROVEMENT TECHNIQUES (By Compaction)
39	1RV19CV053	MOHAN KUMAR T N	GROUND IMPROVEMENT USING VIBROFLOATATION
40	1RV20CV403	N SUNDEEP	Causes and Effects of Landslides
41	1RV20CV404	NAVYAANJALI R	SOIL IMPACTS OF LANDSLIDE

Name of the Course : Advanced Concrete Technology 18CV6C2

Year : 2020-21

Sl no.	USN	Student Name	Experiential learning Topic
1	1RV18CV019	Aviral Roy	Bendable concrete
2	1RV18CV002	AADITYA MISHRA	GLASS CONCRETE
3	1RV18CV110	SUJAY JAIN	Presentation of Translucent Concrete
4	1RV19CV410	Shahid Bashir Malik	Innovative Green SCC with partial replacement of aggregate by Discarded Concrete
5	1RV18CV085	Rohan patil	Presentation on self-compacting concrete

6	1RV18CV026	Chandan Bhat	A review of Different repair strategies for concrete structures
7	1RV18CV092	SANDESH S NAIK	Review paper on "Effect of hybrid nano materials on the mechanical properties and durability of concrete"
8	1RV18CV093	Santosh D Doddamani	Proposal for application of ANNs and CNT/concrete composites in Structural Health Monitoring
9	1RV18CV082	RAJASHEKHAR A KURUBAR	SELF HEALING CONCRETE (Review paper)
10	1RV18CV102	Shrinath L Nandanur	Application of ACT in seismic protection (Review papers)
11	1RV19CV408	Sagar M	Basalt fibre concrete
12	1RV19CV409	Saleem Yandigeri	Review paper on impact of fire on concrete and concrete structures.
13	1RV18CV014	Arjun gupta	Use of recyclable material in concrete
14	1RV18CV013	Arijeet Kumar Biswas	Presentation on Green concrete
15	1RV17CV134	Fahd Abdul Rahman	Strength of concrete
16	1RV18CV015	Arpit Kapil	Presentation - Cellular Lightweight concrete
17	1RV17CV134	Fahd abdul rahman	Strength of concrete

Electrical and Electronics Engineering

This report explores the importance and benefits of experiential learning practices in the Department. It examines various methods and approaches used in experiential learning and highlights their impact on student engagement, skill development, and overall learning outcomes. Additionally, the report discusses the challenges and opportunities associated with implementing experiential learning initiatives and provides recommendations for educators and institutions looking to integrate experiential learning into their curriculum.

Table of Contents:

1. Introduction:

Department of Electrical and Electronics Engineering:

This section provides an overview of experiential learning and its growing significance in modern education with respect to your department. It outlines the objectives of the report and presents the structure of the subsequent chapters.

1.Experiential Learning: Every semester, selected courses have experiential learning component. Students are required to choose topics from the respective course domain which is not part of the syllabus and present their learning's. The faculties will scrutinize the topics and give them some basic idea to start with. The students will prototype their ideas and present them. It is conducted in 2 phases in every semester and evaluation is according to the rubrics.

In one of the Subjects, Emerging Technologies, the experiential Activities were carried out like this.

ETC - Renewable Energy Sources: EL Phase 2 Evaluation/

Sl No	NO OF STUDENTS	GROUP NO	USN/Admission No	NAME	PROJECT TITLE	
1	1	G1	RVCE23BME074	Subhradeep Mondal	Solar Powered Smart Irrigation	
2	2		RVCE23BME110	Krishna Rastogi		
3	3		RVCE23BME129	Aaroh Rastogi		
4	4		RVCE23BME071	Siddhanth Shah		
5	5		RVCE23BME094	Kalp Raval		
6	1	G2	RVCE23BME120	ABHINANDAN NANDAGAVE	Integration of Sensors for Agricultural Needs	
7	2		RVCE23BME127	ARAVIND PATIL		
8	3		RVCE23BTEO47	PRANAV		
9	4		RVCE23BME014	Sohan T		
10	1	G3	RVCE23BME117	Rohith P S	Smart Solar Pump	
11	2		RVCE23BME087	Aditya Vinay Nair		
12	3		RVCE23BCH009	Chinthan Krishna M		
13	1	G4	RVCE23BEE060	Pranav P Kamath	Solar Car Prototype	
14	2		RVCE23BIM042	Jaipreeth J		
15	3		RVCE23BEE057	Vinayak V Kulkarni		
16	1	G5	RVCE23BCV030	SURYA.R.GOWDA	SENSORS FOR AGRICULTURAL FIELD	
17	2		RVCE23BCV026	BHUVAN CV		
18	3		RVCE23BCV042	ABDUL HAKEEM		
19	4		RVCE23BCV041	MOHAMMAD ZAID MIR		
20	1	G6	RVCE23BEE051	AISHWARYA S G		

21	2		RVCE23BEE029	SHREYA BALI	Solar Hybrid Rover	
22	3		RVCE23BCH023	MEGHA THAKUR		
23	4		RVCE23BIM038	ROSHNI SANJAY		
24	1	G7	RVCE23BCV039	Pratyush Dubey	Green Building Design	
25	2		RVCE23BCV066	G P Nagarjun		
26	1	G8	RVCE23BEE056	RITESH KUMAR	Contactless Switch	
27	2		RVCE23BTE014	RITHWIK KUMAR		
28	3		RVCE23BEE019	VEDANT S		
29	4		RVCE23BEE055	WASE ALEEM		
30	1	G9	RVCE23BME099	C H Dushyanth Raj	SOLAR THERMAL POWER PLANT	
31	2		RVCE23BME032	Chandran Sulpi		
32	3		RVCE23BME128	Mahesh		
33	4		RVCE23BME107	Tejas V		
34	1	G10	RVCE23BCV036	Thunga Kumar sujal	Bamboo based Solar modules for residential applications	
35	2		RVCE23BCV048	Dakshak Pradeep		
36	3		RVCE23BCV	Aaryan		
37	4		RVCE23BCV	Manish		
	38	1	G11	RVCE23BIM005	Aritra Bhattacharya	SOLAR POWERED SEED SPRAYER
	39	2		RVCE23BEC027	Tanmay Kapoor	
	40	3		RVCE23BEC179	YS HARSHAL	
	41	1	G12	RVCE23BEE031	Adwit Chandra	Solar Powered IoT based Weather Station
	42	2		RVCE23BEE052	Akash Raj	

The Link to view Experiential Video is : https://drive.google.com/file/d/1hDeJnddN13B3dq_xH7v60Wht70q-0srr/view?usp=drive_link

2. **Assignments:** Courses which do not have experiential learning as part of syllabus have assignments. Soon after first internals, faculty will provide a list of advanced topics beyond syllabus in their courses. Students have to solve the numerical problems or survey the existing literature to find the latest innovations in the field. As part of assignments, students should solve complex problems or implement the ideas. This way, students go into depth of the concepts and improve the skills.

3. **Technical Talk:**Every semester department will organize technical talks for the UG and PG students by inviting eminent speakers from the industry. Technical talk allows experts to share insight, discoveries and helping students to learn and grow. The Fig below shows technical talk by Mr. Srikanth Kashyap from JVS electronics PVT Ltd.

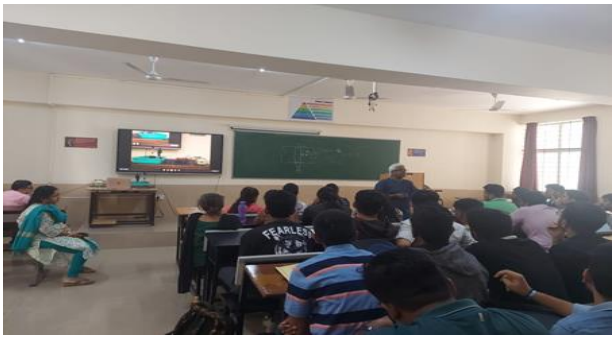


Fig: 5.6.2 Technical talk by Mr. Srikanth Kashyap, CTO of JVS Electronics PVT Ltd.

2. Theoretical Framework of Experiential Learning:

Here, the report delves into the theoretical underpinnings of experiential learning, including models such as Kolb's Experiential Learning Cycle and Dewey's theory of learning by doing (PBL). It explores how these theories inform the design and implementation of experiential learning practices.

Group activity: Many group activities are conducted in the classroom. For example, the first-year students are asked to do a machine model using thermocol sheets during the elements of electrical class. All the students actively participated in this event and they have cut the thermocol and made many models. Fig below shows the Group activity in the class room.

Fig: Group activity in the class room

3. Types and Approaches of Experiential Learning

This chapter discusses various types and approaches of experiential learning, such as internships, service learning, project-based learning, and simulations. It examines the characteristics of each approach and provides examples of how they are used in different educational contexts.

Project Based Learning:

The faculty have received R & D and Consultancy Projects from both Government and private organizations. Faculties have carried out research projects from organizations like DST, VGST, Wipro, FINP INAE – NIAS, Greeneria Pvt Ltd etc.

WIPRO IISc Research and Innovation Network(WIRIN):The future of the automobile is electric, shared, autonomous and connected – a very exciting area. RV College of Engineering® (RVCE) has partnered with WIPRO and the Indian Institute of Science(IISc) to establish a Center of Excellence for Autonomous Vehicle Research at RVCE . The collaboration with WIPRO and IISc in a series of special programs devised by the WIPRO Innovation Center brings together the best automotive sector experts, researchers, innovators, companies and students to create a collaborative ecosystem at RVCE. The center seeks to focus on four key technologies for autonomous vehicles: sophisticated AI technologies for vehicle control, environment perception, route planning and vehicle navigation systems. It is a collaborative platform to observe an essential component of contemporary transportation networks.

The Center of Excellence is Working on 5 Different Verticals.

1. National Dataset Creation
2. Mechanical Design (Chassis design, CAED modeling, FAE Analysis etc)

3. Electrical Architecture (Battery and Motor Rating calculations, design and Integration, Wiring Harness etc)
4. AI Stack Development
5. Vehicle Simulator (Design and Development)

Activities:

1. Many UG/PG Students were offered Internships under WIRIN CoE.
2. Many Students worked in groups and as an individual at the center to link it with their academics in terms of **Experiential Learning, Minor and Major projects.**
3. They have taken the real time projects as modules and successfully demonstrated it in the given time frame.
4. They have written few algorithms for the autonomous features and integrated well with rest of the systems.
5. Few students have also worked on CARLA Simulator, implemented integration of various sensors required for autonomous vehicle.
6. Students investigated faults at Converters, fine tunning PID controllers, Motor
7. Drive Systems and Wiring Harness separating LV and HV cables.
8. Students have worked on 48 Kw peak BLDC motors.
9. PG and few UG Students were able to access the Speed v/s Torque issues and controlling them with suitable algorithm.
10. Students have synched 2 BLDC Motors and an electronic differential system was proposed by the students.

Few Project details are mentioned below.

Sl. No.	**STUDENT NAME**	**Number of Months**		**USN**	**BRANCH**	**SEM**	**Project Title**	**RVCE Mentor**
1	TEJAS M	SEP-APR	8	1RV19EE065	EEE	Vl	MOTOR CONTROL UNIT AND VEHICLE DYNAMICS FOR AUTONOMOUS VEHICLE	Prof. RAJ VIDYA, EEE
2	ANURAG N	SEP-APR	8	1RV20EE401	EEE	Vl		
3	SHARANAPPA ULAGI	SEP-APR	8	1RV19EE067	EEE	Vl		
4	SOURABH RAJA	SEP-APR	8	1RV19EE071	EEE	Vl		
5	LATHESH SHETTY KK	SEP-APR	8	1RV20EE402	EEE	VI	ELECTRICAL ARCHITECTURE AND HARNESS FOR AUTONOMOUS ELECTRIC VEHICLE	Prof. RAJ VIDYA, EEE
6	MALLARADDY	SEP-APR	8	1RV20EE403	EEE	VI		
7	RIDA ARFAIN A	SEP-APR	8	1RV20EE404	EEE	VI		
8	SUDARSHAN MJ	SEP-APR	8	1RV20EE405	EEE	VI		
9	CHIRAG DHOKA JAIN	APRIL-JULY	4	1RV18EI014	EIE	VII	BATTERY MANAGE	Prof. RAJ

							MENT SYSTEM	VIDYA, EEE

Students were offered Internship certificates in Association with WIPRO.

Faculties have also carried out some consultancy projects from TE Connectivity, Robot Entertainment and Ampere by Greaves. Faculties have also carried out Skill development programs – Suryamitra, under the Ministry of New and Renewable Energy (MNRE), Govt. of India and National Institute of Solar Energy (NISE). iRISE, Varunamitra, Jalmitra are few more Skill development programs which are carried out in Electrical Department funded by Govt. of India.

Few Skill development activities were handled by faculty members as listed below.

Skill Development activities

Sl. No.	**Project Title**	**Funding Agency**	**Amount (Rs.)**	**Project duration (in Years)**	**Faculty In-charge**
1	Jal Urja Mitra Skill Development Program	MNRE, IIT Roorkee	19,34,250	2022 - 23	Dr. S.G. Srivani Dr. Madhu B.R Dr. Adinath Jain Dr. Lokeshwari M (CV Dept)
2	i-RISE Suryamitra Upskilling program	MNRE-RENAC/GIZ - NISE	9,82,000	2020 - 21	Dr. S.G. Srivani Dr. Madhu B.R Dr. Adinath Jain
3	Solar Water pumping Varuna Mitra program	MNRE - NISE	3,57,120	2020 - 21	Dr. Madhu B.R Dr. Adinath Jain Dr. Lokeshwari M (CV Dept)

4	Solar Skill Development Program	KREDL	11,24,404	2019 - 20 (3 months)	Mrs. Raja Vidya Dr. Ajay K M
5	Suryamitra Skill Development	NISE, MNRE	48,72,000 (3 Batches)	2018 - 19 (3 Months each)	Dr. Rudranna Nandihalli Mrs. Raja Vidya Dr. Ajay K M

Industry visit

Being a part of interactive learning, such educational visits give students major exposure to real working environments along with a practical perspective of a theoretical concept relevant to their domain. The objective of industrial visits is to bridge the widening gap between theoretical learning and practical exposure by giving students first-hand exposure to identify the inputs and outputs of different business operations and processes performed at the workplace. After the industry visit students will submit a report on the visit and also quiz will be conducted regarding the visit. The Fig below shows the visit to 220 KV Sub-Station, Somanahalli for 7th sem UG students.

Fig: Visit to 220 KV Sub-Station, Somanahalli, Bengaluru

Faculty work available on the VTU website for peer review:

Faculty Prof. Sushmitha Sarkar has been recommended as a course expert for VTU e-shikshana Programme for the following subject and video lectures are available in the following links.

1. Link for POWER SYSTEM ANALYSIS (SERIES OF 12 LECTURES)

https://www.youtube.com/watch?v=7voNa0tMb1k&list=PLcwp2fRcIXJWFKh_LrhY2Uu07DqDWPPId

2. Link for POWER QUALITY (SERIES OF 8 LECTURES)

https://www.youtube.com/watch?v=xKKr3iuJWM&list=PLcwp2fRcIXJXDXU64Yj3YKpT5h854tW7C&index=8

Active learning:

Apart from passive learning, faculty have innovatively applied various active learning's. Following are few courses where in active learning technique has been applied.

- During the pandemic, the theory classes were conducted online and the process of keeping students alert and making them understand the concepts was a challenge. To make the course more interesting and also to evaluate their level of understanding, quizzes were conducted at the end of each class. This was considered as attendance and also a motivation for students to explore their level of understanding. Google Forms are used to conduct these quizzes.

- During the pandemic the lab-connected subject theory classes were conducted online. But for practical classes, the teachers used to conduct experiments in the lab and recorded videos were played in the online class. Also, some of the experiments were conducted using the virtual lab.

Open-ended learning

In this environment or a project, the students are not bound by a set of rules or instructions. They do not work under the constraint of producing a particular result. The outcome of the process can be 'anything'. There can be many solutions to a problem. The faculty is only a 'facilitator'. The main objective of open-ended learning is to encourage the students to explore their creativity.

Minor Projects

Students have minor projects in 5th semester in 18 scheme and 7th semester in 16 scheme. They implement concepts related to their field of interest or faculty's field of expertise. Mini projects will provide students an opportunity to explore their creativity. A group of two to four students can take up the work and hence it improves their teamwork, leadership skills, communication skills, social and ethical skills.

Design Thinking Lab

Students have a Design Thinking Lab in 4th semester 18 scheme. The proposed theme is to address some of the day-to-day challenges, an individual or society is facing from all walks of life through design thinking way. The functional areas like Govt. Services, Healthcare, City Services, Agriculture and Industrial automation are considered while designing the problem statements for this lab. There will be teaching faculties to guide and evaluate the students in this lab. Students will follow the five stages in the Design Thinking process i.e, Empathize, Define, Ideate, Prototype and Test. Further the work can be carried to the minor and major projects to their higher semesters. Best concepts are identified and suitably rewarded. Example of student poster for one particular group made the prototype on "Solar Powered Automatic Pulley System for Rural areas" and won excellent award. Further they carried the work till minor project until Testing the Prototype in bigger scale. The Poster is shown in Figure below.

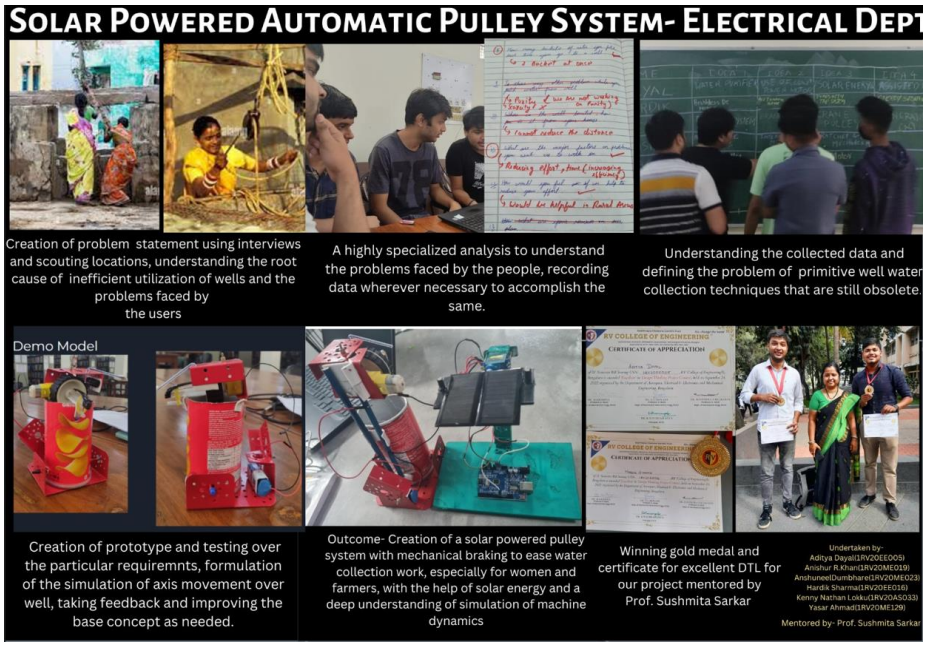


Figure: Poster on "Solar Powered Automatic Pulley System for Rural areas"

Virtual lab

Virtual Labs are considered one of the most important e-learning techniques, as they enable teachers and students to achieve the educational process' goals. This is done by facilitating the application of the practical side of the curriculum at any time and place, and without any form of restrictions. Students were instructed to use virtual lab tools to perform two experiments in all lab-related subjects. In theory classes also some of the concepts are explained using the virtual lab. Where in all students will bring laptops and work in the classroom as shown in figure below.

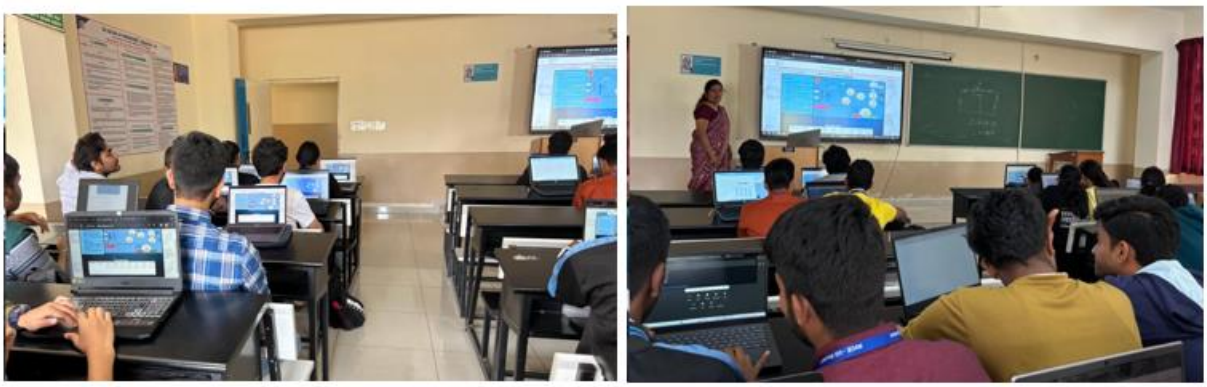


Fig: Virtual lab activity

4. Benefits of Experiential Learning with respect to your department:

In this section, the report outlines the numerous benefits of experiential learning for students, educators, and institutions. It discusses how experiential learning enhances student engagement, fosters critical thinking and problem-solving skills, and prepares students for real-world challenges.

1. **Practical Application of Theory**:
   - Example: In a classroom setting, students may learn about Ohm's Law, which describes the relationship between voltage, current, and resistance in a circuit. Through experiential learning, they could then apply this knowledge by building simple circuits using resistors, batteries, and multimeters to measure voltage and current. By observing how changes in resistance affect voltage and current, students gain a deeper understanding of Ohm's Law and its practical implications.
2. **Skill Development**:
   - Example: Students might participate in a project to design and build a small electronic device, such as a digital thermometer or a light-sensitive alarm. Through this hands-on experience, they learn soldering techniques, circuit prototyping, component selection, and basic programming skills. These practical skills are essential for future roles in electrical and electronics engineering.
3. **Problem-Solving Abilities**:
   - Example: Students could be tasked with troubleshooting a malfunctioning electrical system, such as a power distribution network or a control circuit. By systematically diagnosing the problem, testing components, and analyzing data, students develop problem-solving skills and learn to apply their theoretical knowledge in real-world scenarios.
4. **Teamwork and Collaboration**:
   - Example: As part of a group project, students may work together to design and build a renewable energy system, such as a solar-powered charger or a wind turbine generator. Each team member brings their

expertise in areas like circuit design, mechanical engineering, and programming, fostering collaboration and interdisciplinary learning.

5. **Preparation for Industry**:
   - Example: Students could participate in an internship or co-op program with a local engineering firm, where they work on real-world projects under the guidance of experienced professionals. Through this hands-on experience, students gain exposure to industry practices, tools, and standards, preparing them for future roles in the electrical and electronics industry.
6. **Increased Motivation and Engagement**:
   - Example: Instead of traditional lectures, instructors have organized interactive workshops or lab sessions where students build and test electronic circuits, control systems, or communication networks. Engaging in these hands-on activities makes learning more enjoyable and meaningful, increasing student motivation and engagement.
7. **Feedback and Reflection**:
   - Example: After completing a design project, students participate in a peer review session where they present their work to classmates and faculty members and receive feedback on their designs, implementation, and problem-solving approaches. This feedback loop helps students reflect on their experiences, identify areas for improvement, and refine their skills for future projects.

5. Challenges in Implementing Experiential Learning with respect to your department:

Here, the report identifies common challenges and barriers to implementing experiential learning initiatives. It addresses issues such as resource constraints, logistical challenges, and resistance to change, and offers strategies for overcoming these obstacles.

1. **Resource Constraints**: Setting up and maintaining laboratories, purchasing equipment and materials, and providing necessary technical support can be expensive. Limited resources may hinder the ability to offer hands-on experiences to all students or restrict the scope of projects they can undertake.
2. **Time Constraints**: Integrating experiential learning activities into an already packed curriculum can be challenging. Finding time for hands-on projects, lab sessions, or field experiences without sacrificing coverage of essential theoretical concepts requires careful planning and coordination.
3. **Faculty Training and Expertise**: Faculty members may require training and support to effectively design and facilitate experiential learning activities. Not all instructors may have the necessary expertise in practical skills, project-based learning, or instructional methods that promote active learning.
4. **Safety Concerns**: Working with electrical equipment and systems can pose safety risks if proper precautions are not taken. Ensuring that students receive adequate safety training and supervision, as well as maintaining a safe learning environment, is essential but can be resource-intensive.
5. **Assessment and Evaluation**: Assessing student learning and performance in experiential learning settings can be more complex than traditional methods such as exams or quizzes. Developing appropriate assessment tools and criteria to measure students' practical skills, problem-solving abilities, and teamwork may require additional effort.

6. **Access to Industry Partnerships**: Collaborating with industry partners for internships, co-op programs, or real-world projects can enrich the experiential learning experience. However, establishing and maintaining these partnerships requires effort in networking, negotiation, and aligning academic and industry objectives.
7. **Equity and Inclusivity**: Ensuring that all students have equal access to experiential learning opportunities regardless of their background, abilities, or circumstances is essential. Addressing issues of equity, diversity, and inclusion may require additional resources, support services, or accommodations.
8. **Curricular Integration**: Integrating experiential learning seamlessly into the curriculum, ensuring alignment with learning objectives, and avoiding fragmentation can be challenging. Coordinating across courses, modules, and program levels to provide a cohesive learning experience requires careful curriculum design and collaboration among faculty members.

6. Case Studies and Examples:

This chapter presents real-world case studies and examples of successful experiential learning programs. It highlights innovative approaches and best practices used by institutions to integrate experiential learning into their curriculum and shares insights gained from these experiences. Place the photos of evens in case studies if any.

As an Experiential Learning activity, students were made to learn on Cadence Tool. In class all theoretical concepts were taught like a basic Inverter circuit and its DC Characteristics, designing simple NOR and NAND logic devices using CMOS structures, realization of Full Adder circuit and designing a sequential Logic circuit like Master Slave JK Flipflop or counters. Students should understand the tool and implement these circuits by themselves.

Apart from this, students were also exposed to FPGA Implementation. Students learn different implementation strategies in Unit 5 but practically they have not seen. Through Experiential Learning activity students were given opportunity to learn Hardware Descriptive Language (HDL), Verilog - Behavioral model, done the simulation, then flashed on FPGA kit.

Anvyl Spartan-6 FPGA development board as shown in Fig below was used for the implementation of 2:4 decoder.

Fig Spartan 6 FPGA Board

Code for the 2:4 decoder using Verilog.

```
module decoder24(i, y);
input [1:0]i;
output [3:0]y;
reg [3:0]y;
always@(i)
begin
case (i)
2'b 00 : y = 4'b 0001;
2'b 01 : y = 4'b 0010;
2'b 10 : y = 4'b 0100;
2'b 11 : y = 4'b 1000;
default: y=4'b0000;
endcase
end
endmodule
```

Simulation results are as shown in fig below simulated by one of the students.

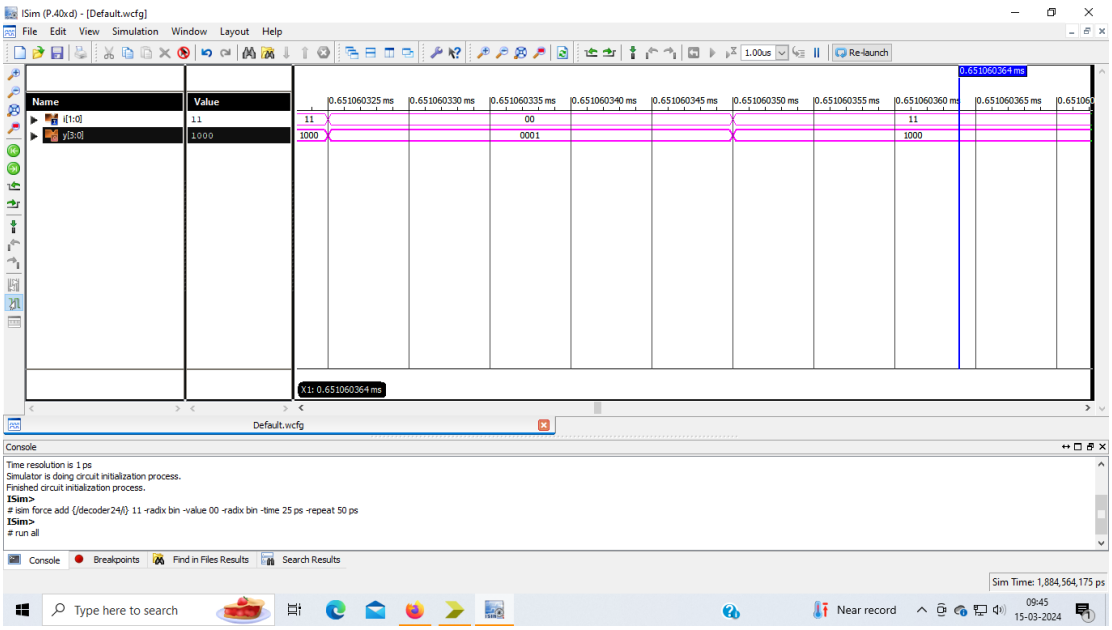


Fig: Simulation of 2:4 Decoder

1. **Hands-on Experience with Industry-Standard Tools**: Exposing students to VLSI design tools like Cadence allows them to gain practical experience with tools widely used in the semiconductor industry. Familiarity with these tools enhances their employability and readiness for careers in VLSI design.
2. **Design Exploration and Prototyping**: Working with FPGA boards enables students to prototype and test their VLSI designs in a real-world hardware environment. They can implement and evaluate various digital and analog circuits, gaining insights into the design process and trade-offs involved.
3. **Real-Time Feedback and Iterative Design**: Experiential learning with FPGA boards provides students with immediate feedback on their designs. They can observe the behavior of circuits in real time, identify issues, and iteratively refine their designs to achieve desired functionality and performance.
4. **Simulation and Verification**: Utilizing Cadence tools, students can simulate and verify their VLSI designs before implementation on FPGA boards. This allows them to detect and debug errors early in the design process, improving design reliability and efficiency.
5. **Project-Based Learning**: Incorporating projects that involve designing, implementing, and testing VLSI circuits on FPGA boards promotes active learning and problem-solving skills. Students can work on real-world design challenges, fostering creativity and innovation.
6. **Interdisciplinary Collaboration**: VLSI design often requires collaboration across multiple disciplines, including electrical engineering, computer science, and mathematics. Experiential learning projects that integrate FPGA-based system design encourage interdisciplinary collaboration, mirroring real-world industry practices.
7. **Industry Relevance and Career Preparation**: Experiential learning with VLSI Cadence tools and FPGA boards provides students with practical skills and experiences directly applicable to careers in the semiconductor industry. Engaging in hands-on projects enhances their readiness to tackle real-world design tasks and challenges.

To effectively incorporate experiential learning with VLSI Cadence tools and FPGA boards into the VLSI Circuit and Design course, faculties can design project-based assignments, lab exercises, and design challenges that leverage these tools. Providing guidance, resources, and support for students to explore and experiment with VLSI design concepts using industry-standard tools and hardware platforms can significantly enrich their learning experience and prepare them for success in the field of VLSI design.

Each semester put two best case studies (i.e any one EL/PBL)

2023-24

Case Study – 1

Power system analysis EL TOPICS

USN	Batch no.	Students Name	TOPIC	TOOLS
1RV20EE009	1	Aviral Srivastava	Load flow,optimal power flow and transient studies of IEEE-9 BUS SYSTEM	MATPOWER AND Simulink
1RV20EE065		Harshit Mishra		

1RV20EE022		Jeevesh Kesharwani		
1RV20EE004	2	Adharsh V	3 D Visual representation of faults using Blender and Analysis of IEEE 14 Bus System	Blender and power world
1RV20EE037		Pranav P Athri		
1RV20EE045		Sanjan D Murthy		
1RV20EE010	3	B Ashrith	Transient Stability Analysis for IEEE 9 bus system	Matlab Simulink
1RV20EE029		M V Sumukh		
1RV20EE031		Mir Ibrahim Faiz		
1RV20EE016	4	Hardik Sharma	Fault analysis using Wavelet Transform	Matlab Simulink
1RV20EE052		Singh Sandeep Arun		
1RV20EE032		Mudit kumar		
1RV20EE020	5	Iranna	economic load dispatch of IEEE nine bus system	
1RV20EE021		Jayanth Gowda A		
1RV20EE023		K R Chandrakanth		
1RV21EE403	6	Prajwal B G	Load Frequency Control of Thermal/ Hydro Power Plant Using PID Controller Tuning with Bode Plot using MATLAB App Designer	MATLAB App Designer
1RV21EE405		Ullas H S		
1RV21EE400		Dhanush S R		
1RV20EE051		Shriram J Sharma		
1RV20EE030	7	Mansi Ganotra	Load flow analysis using PowerWorld Simulation	power world simulator
1RV20EE060		Vaishali Kharpuse		
1RV20EE058	8	Tejas S Katta	Performnance analysis of DFIM for various applications	Matlab Simulink
1RV20EE054		Suhas P Shetty		
1RV21EE402		Nagaraj B Katagi	Load Flow analysis using Neplan	Neplan

1RV20EE057 1RV20EE038	9	syed sylani Prasanna	fault analysis of DFIG	Matlab simulink
1RV20EE012 1RV20EE035 1RV20EE040	10	BALARAJ B NAIK NITIN S PUNITH R C	GUI implementation of Z bus building algorithm	
1RV20EE046 1RV20EE027	11	Satyam Sudhakar Gaonkar Lohit J Patgar	Harmonic analysis of power system	Neplan Softare
1RV20EE033 1RV20EE002 1RV20EE044	12	N Deepak Ram Abhishek gowda Samyak Kumar Jain	load flow analysis using IEEE9 bus system.	power world simulator
1RV20EE013 1RV20EE018 1RV20EE017	13	Bhoomika S Harshika Singhal Harsh Rastogi	Optimal load flow analysis using IEEE9 bus system.	power world simulator
1RV20EE034 1RV20EE026	14	Nithyashekar S Kudrimoti Akash	Simulation of Long transmission line losses	Matlab simulink
1RV20EE053 1RV20EE069	15	Sreya Singu Tushaara B	Particle Swam Optimisation for economic load dispatch	Matpp Designer
1RV20EE005 1RV20EE025 1RV20EE001	16	Aditya Dayal Kshitij Abhinav verma	Centralised and Decentralised Energy sources for Power system	Matlab

1RV20EE073	17	Rahul R	Economic load disatch of IEEE 9-bus system	Power World simulator
1RV20EE063 1RV20EE066	18	Vivek Pant Pragya Singh	LFA and SC analysis for IEEE 14 bus	etap
1RV20EE056 1RV20EE059	18	Surya Sai Sanjay Karri Usha K N	User interfaced Tool for network topology	HTML,CSS,JAVASCRIPT
1RV20EE067 1RV20EE070 1RV20EE071	20	Harshad Biradar Vibhu Dixit Harsh Bhan Giri	Security Analysis of power system using deep learning	python
1RV20EE047 1RV20EE043	21	saumya Sai nithin yadamreddy	Improvement of Transient Stability Using SVC and PSS	Matlab Simulink
1RV20EE028 1RV20EE042 1RV20EE049	22	M Tareesh Naik Ruchitha N A Shashank Sharma T R	Simulation of DFIG to generate constant power	Matlab Simulink
1RV20EE068 1RV20EE072	23	Nihal Gupta Pranav v Jirali	Transieint stability of IEEE 14 bus System	etap
1RV20EE061	24	vaishnavi	Simulation of 3 hase fault using over current relay	matlab simulink
1RV20EE019 1RV20EE039	25	Hritik pratham	Load Flow using FDLF	Matlab

Case Study – 2

Experiential Learning Topics Course: POWER CONVERTERS-II 18MPE21

Theme: Power Electronics applications in e-Vehicle

SL NO	TOPIC	COS AND POS MAPPED
1	Current scenario, Government policies and technical challenges of e vehicles	CO1, PO2, PO6
2	Recent high efficient Power converters for e vehicles	CO4,PO2,PO5
3	Battery management systems.	CO3,PO2, PO5
4	Current trends in the battery technology of e vehicles	CO1,PO6
5	Charging stations of e-vehicles	CO2,PO2,PO6
6	Wireless charging mechanism of e vehicles	CO3, PO3
7	E-vehicles in National and International automobile industry	CO1,PO6
8	Feasibility study of retro fit conversion of IC engine based vehicles to e vehicles	CO2, PO3
9	Scope of e-vehicles in farming	CO4,PO6
10	Solar based e vehicle systems	CO4,PO6
11	Hybrid e vehicle: Current scenario, challenges, benefits and scope over pure e-vehicles	CO1,PO2,PO6
12	Failure study of e vehicles	CO2,PO2,PO3
13	Motor controller of e vehicles	CO2,PO2,PO3
14	Drives for e vehicles	CO2,PO2,PO3
15	Indian manufacturing companies of e vehicles: Discussion of 1 case study with end to end description	CO1,PO2,PO6

Rubrics for Assignment assessment

SL No	Criteria	Excellent	Good	Average	Poor	Max Score
Phase 1	Understanding of the topic	5-4	4-3	3-2	1-0.5	5
	Analysis& Interpretation	7-6	5-4	3-2	2-1	7
Phase 2	Simulation/Hardware implementation	8-7	6-5	4-3	2-1	8
	Communication skills	6-5	4-3	3-2	1-0.5	6
	Report Submission	4-3	3-2	2-1	1-0.5	4
Total						30

Evaluation

Name	Phase 1(12)	Phase2(18)	Total (30)
AKASH	8	17	25
BHAVANA G	9	18	25
DEEPIKA S	7	13	20
HARSHITH R	7	13	20
KAVERI PATIL	8	12	20
KUSHAL	10	17	27
MONISHA R	10	13	23
PRUTHVI M C	10	11	21
SANJANA SHIRAHATTI	10	11	21
SINDU R KULAKARNI	9	16	25
SUMANTH RITHU K N	9	13	22
SWATHI PATIL	10	15	25
VAISHNAVI KULKARNI	10	15	25
VARSHIMI B	10	12	22
VENUGOPAL K B	10	10	20
TARA BIRADAR	10	13	23

Mapping with CO's

Name	CO1(10)	CO2(10)	CO3(5)	CO4(5)
AKASH	7.5	7.5	5	5
BHAVANA G	7.5	7.5	5	5
DEEPIKA S	6	6	4	4
HARSHITH R	6	6	4	4
KAVERI PATIL	6	6	4	4
KUSHAL	8.1	8.1	5.4	5.4
MONISHA R	6.9	6.9	4.6	4.6
PRUTHVI M C	6.3	6.3	4.2	4.2
SANJANA	6.3	6.3	4.2	4.2

SHIRAHATTI				
SINDU R KULAKARNI	7.5	7.5	5	5
SUMANTH RITHU K N	6.6	6.6	4.4	4.4
SWATHI PATIL	7.5	7.5	5	5
VAISHNAVI KULKARNI	7.5	7.5	5	5
VARSHIMI B	6.6	6.6	4.4	4.4
VENUGOPAL K B	6	6	4	4
TARA BIRADAR	6.9	6.9	4.6	4.6

For the calculation of CO attainment for assignment the following mapping is considered.

Co1 taken 30% of total marks Co2 taken 30% of total marks Co3 taken 20% of total marks Co4 taken as 20% of total marks

2022-23

Case Study – 1

Experiential Learning Groups for Principles of Electromagnetics (21ET45)

Group No.	USN	Name	Software Tool	Phase-I EL Question Alloted
G1	1RV21EE007	Ainesh Sri Patnaik	JAVA	Q1
	1RV21EE014	Anjali S		
G2	1RV21EE002	Aayushi Thakur	MATLAB/SIMULINK	Q2
	1RV21EE015	Ankita Ghosh		
G3	1RV21EE038	Nalitham Bhuvan	Python	Q3
	1RV21EE018	Arohi Rao		
G4	1RV21EE003	Abhinandana Y	MATLAB/SIMULINK	Q4
	1RV21EE057	Smriti Prasad		
G5	1RV21EE029	JEEVAN A	MATLAB/SIMULINK	Q5
	1RV21EE040	NIKHIL N		
G6	1RV21EE033	Laxmi	Python	Q6
	1RV21EE037	Nagarathna H		
G7	1RV21EE011	Amulya U Reddy	MATLAB/SIMULINK	Q7

	1RV21EE028	Jahnavi Prabhu		
G8	1RV21EE010	Amit Kumar Singh	Python	Q8
	1RV21EE051	Shamith		
G9	1RV21EE006	ADVIK SOLANKI	MATLAB/SIMULINK	Q9
	1RV21EE030	K N CHANDRASHEKAR NAIK		
G10	1RV21EE048	Rohith Basha	MATLAB/SIMULINK	Q10
	1RV21EE060	Syed Farhan		
G11	1RV22EE403	Manjunath K Naikar	MATLAB/SIMULINK	Q11
	1RV22EE404	VS Suraj		
G12	1RV22EE400	AKASH K	MATLAB/SIMULINK	Q12
	1RV22EE402	MALLIKARJUN S		
G13	1RV22EE405	VIJAY KIRAN U R	MATLAB/SIMULINK	Q13
	1RV21EE043	Priyanshu Paramil / Shrujan pramukh		
G14	1RV21EE031	Kedar Bhandarkar	MATLAB/SIMULINK	Q14
	1RV21EE046	Rahul CS		
G15	1RV21EE025	Hemanth K	MATLAB/SIMULINK	Q15
	1RV21EE058	Sudhanva T Manur		
G16	1RV21EE041	NISHAANTH S	MATLAB/SIMULINK	Q16
	1RV21EE012	Anik Deb Barman		
G17	1RV22EE401	Krishnakanth MK	MATLAB/SIMULINK	Q17
	1RV21EE036	Madan		
G18	1RV21EE035	Maaz Ahmed	Python	Q18
	1RV21EE039	Naveen Agarwal		
G19	1RV21EE009	Amandeep Parashar	MATLAB/SIMULINK	Q19
	1RV21EE045	Raghav Lahoti		

G20	1RV21EE052	Shivam Pandey	MATLAB/SIMULINK	Q20
	1RV21EE013	Anish Kumar		
G21	1RV21EE065	Shreyansh Singh	MATLAB/SIMULINK	Q21
	1RV21EE063	Wajeehuddin Ashraf		
G22	1RV21EE022	Drishty Trivedi	Python	Q22
	1RV21EE061	Varun		
G23	1RV21EE032	Kirti Gangadhar Himbandi	Python	Q23
	1RV21EE020	Bhagyashree A Dharmannavar		
G24	1RV21EE027	Jahnavi M Math	MATLAB/SIMULINK	Q24
	1RV21EE064	Yash Gupta		
G25	1RV21EE016	Aparna ST	MATLAB/SIMULINK	Q25
	1RV21EE026	Hrity Sahu		
G26	1RV21EE017	Arjun Singh	JAVA	Q26
	1RV21EE054	Shreya Mahajan		
G27	1RV21EE053	Shreya	MATLAB/SIMULINK	Q27
	1RV21EE059	Suyash Agrawal		
G28	1RV21EE024	Gourav Kumar	MATLAB/SIMULINK	Q28
	1RV21EE034	Likith j		
G29	1RV21EE021	Dhamini Arya S	MATLAB/SIMULINK	Q29
G30	1RV21EE056	Siddhartha Roy	MATLAB/SIMULINK	Q30
	1RV21EE047	Rahul Raj		
G31	1RV20EE048	Shashank Bhushan	MATLAB/SIMULINK	Q31
G32	1RV21EE019	B Aditya	MATLAB/SIMULINK	Q32
	1RV21EE005	Adityesh Agarwal		
G33	1RV21EE001	Aaryan	MATLAB/SIMULINK	Q33

	1RV21EE004	Aditya Raj		
G34	1RV21EE062	VEDANSH	JAVA	Q34
	1RV21EE050	SAUBHAGYA GUPTA		
G35	1RV21EE042	Pratham Verma	MATLAB/SIMULINK	Q35
	1RV21EE008	Akshay Mehta		
G36	1RV21EE023	G Leela Ganesh	MATLAB/SIMULINK	Q36
	1RV21EE049	Sanjay R		

Case Study – 2

Sl No.	Topic	Batches
1	Develop a simulation model for **Series** HEV to analyze the effect of changing of parameters on vehicle range and performance.	B1
2	Develop a simulation model for **parallel** HEV to analyze the effect of changing of parameters on vehicle range and performance.	B2
3	Develop a simulation model to analyze all Electric Motor Performance Characteristics.	B3
4	Develop a simulation model to analyze Electric Motor Regenerative Braking Characteristics for different Driving Cycles.	B4
5	Create a MATLAB model of electric car which uses lithium ion battery and suitable motor. Choose suitable blocks from Simscape or Powertrain block set. Implement the vehicle speed control using PI controller and generate brake and accelerator commands. Avoid using readymade driver block for speed control.	B5

6	Create a MATLAB model of electric car which uses a battery and a DC motor. Choose suitable blocks from Powertrain block set. Prepare a report about your model including following: Objectives: 1. System level configurations, 2. Model parameters, 3. Results, 4. Conclusion	B6
7	1) What is the difference between mapped and dynamic model of engine, motor and generator? How can you change model type?	B7
	2) How does the model calculate miles per gallon? Which factors are considered to model fuel flow?	
	3) Run the HEV Reference Application with WOT drive cycle. Change the grade and wind velocity in the environment block. Comment on the results.	
	4) Keeping all other parameters same, compare the simulated results of hybrid and pure electric powertrains.	
8	Use the ADVISOR tool and simulation the following**:**	B8
	1. For EV_defaults_in file, if cargo mass is 500 kg with all other default conditions, can the vehicle travel for 45 km with FTP drive cycle. Conclude your observations.	
	2. In the above case, try changing the battery capacity and repeat the simulation	
	3. Perform gradeability test with PRIUS_Jpn_defaults_in file. Compare your results in a table and conclude.	

2021-22

Case Study – 1

ARM MICROCONTROLLER AND EMBEDDED SYSTEMS

18EE6C3
Experiential Learning
Topics

1. EEE Department, RVCE Library Management system using LPC2148
2. E Vehicle Charging Infrastructure Management using LPC2148
3. Control Strategy in WPT system using LPC2148
4. Battery Status Monitoring System using LPC2148
5. Implementation of Closed-Loop or Feedback Control System for a Brushless DC Motor using LPC2148
6. Auto Intensity Control of Solar Powered LED Street Lights using LPC2148
7. Hybrid Energy management system using LPC2148
8. Classroom automation system using LPC2148
9. Development of an Energy Meter based on IOT
10. RFID Based 6th Sem Attendance System Circuit Using ARM LPC2148.

Case Study – 2)

Subject: Analysis and Design of Digital logic circuits(18EC34)
3rd Semester

1. Design a Digital Clock using Sequential circuits.

2.Design and construct a circuit for a chocolate vending machine and display the number of chocolates that a user can buy with remaining amount.

3. Design a Digital IC tester with embedded truth table. (Consider all the basic and universal gates)

4. To design and simulate a controller for an elevator that serves three floors.

5. Design a digital bank token no. display &Voice annunciation to the queue.

6. Design & implement the circuit for density-based traffic signal management for ambulance.

7. To design and simulate a controller for Solar powered LED light with intensity control.

8.To design and simulate a controller for automatic railway gate control.

9. Design an automatic water level indicator in any natural water source to give floods precautions. Precautions signal must reach the head of the irrigation department.

10. Design a digital Taxi Fare Meter.

11. Design a Paddle Controlled Washing Machine. (Motor must be controlled by paddle not with external power source.)

12. Design an automatic Spray-Painting Gun with use of sequential circuits. (Use counters for the clockwise and anticlockwise rotation of the gun)

13. Design a bidirectional visitors counter in shopping mall or movie theatre.

14. Design a Boolean algebra calculator using basic simplification techniques. (This must work as a portable calculator to simplify the Boolean expression on the fly. In the circuit, use Boolean algebra simplification methods to simplify the Boolean expression and display the output on the display.)

15. Design a Autonomous Navigation Tool (A.N.T)- Gps based navigation with any combination circuit.

16. Design a Clap switch circuit for the home automation. (This circuit has to manage the appliances in your home devoid of getting off from your bed, need is to just clap in front of the microphone and after that, the device attached to the microphone becomes “ON” or “OFF”.)

17. Design a detector system to identify a quiz buzzer from a team in any quiz competition. (Built the circuit, which scans the input from push buttons and displays the corresponding number on a display device.)

18. Design a Wireless switch circuit for blind people to take care of their home automation system. (This circuit needs no physical contact with the appliance. In this circuit, all you need is to pass your hand above LDR to ON or OFF the switch.)

19. Design a FM radio jammer with the frequency counter.

20. Design & implement the circuit for traffic management system.

21. Design a logic circuit to switch off the lights during daytime sensing the day light with timer application. (Auto power off)

22. Design and implement a similar automatic streetlight dimming (for some time sensing no pedestrian movement), eventually power off (if no pedestrian passes by for some time) circuit using digital logic (Both sequential and Combinational).

23. Design an automatic bell circuit (Similar to College bell) according to your class timetable.

24. Design and implement a natural calamity sensing and alarming system using logic design.

2020-21

Case Study – 1

Experiential Learning Assessment			
RES and SS (18G7H07)			
Renewable Energy (Global elective) groups			**TOPICS (Non Circuit Branch)**
Group No.	**Name**	**USN**	
1	Abhishek R	1RV20ME003	CFD analysis of horizontal wind turbines
	Bhaskar P	1RV20ME030	
	Dishan P	1RV20ME039	
	Gaurav H	1RV20ME043	
2	Kartik Sanjay Angadi	1RV20ME057	Flywheel energy storage system
	Kolluru Saketh	1RV20ME059	
	Tejonidhi GK	1RV20ME117	
	Vijay Kumar PR	1RV20ME125	
3	Mahendra Singh Rawat	1RV20ME060	MATLAB simulation of wind turbine
	Rohil Dindukurthy	1RV20ME089	
4	S Dayasagar	1RV20ME091	Different types of batteries, Battery charging, Battery management
	S Thanush	1RV20ME093	
	Siddeshwara K N	1RV20ME106	
	Shikhiin V S	1RV20ME103	
5	Darshan Kumar S	1RV21ME402	Hydraulic turbine simulation
	Manoj S	1RV21ME405	
	Varun H G	1RV21ME408	
6	Srujan Patil	1RV21ME407	Hydrogen energy storage
	Yashwant Kumar A	1RV21ME410	
	Amith S	1RV20ME015	

7	Chirag M	1RV20ME032	speed control of horizontal axis wind turbine
	Mallappa	1RV20ME61	
	Pulikeshi	1RV20ME078	
8	Eeshani Sumedha	1RV20ME041	Wind speed and energy
	Devika M	1RV20ME037	
	Mohammad Mafaz	1RV20ME065	

BATCH	NAME	USN	TOPIC (Circuit Branch)
1	Krishna Kiran Shetti	1RV20EI022	Energy Distribution, Digital Data Processing, Effect of Hub Height,Importance of Reliable Data, Wind Speed Prediction,Wind Energy Resource Maps.
	Suhas Bhat K	1RV20EI057	
	Vijeth B	1RV20EC182	
	Vivek K C	1RV20EI061	
2	Ankita Gupta	1RV20EI005	1.5MW wind turbine induction generator
	Manuj P	1RV20EI030	
	Pavan Ramesh	1RV20EI039	
	Swati Soumya	1RV20EI058	
3	Chandrashekar D B	1RV21EC403	Power quality challenges in an integrated renewable system.
	Basavaneni Silpa	1RV20EC037	
4	Govind N R	1RV20EC067	250 kw Grid connected solar pv array simulation
	Darshan Datta Naik	1RV20EC048	
5	Aditya P Patil	1RV20EC008	Different types of batteries, management Equivalent Electrical Circuit, Battery charging
	Sanket M Mantrashetti	1RV20EC136	
	Sateesh Shivananda Badadal	1RV20EC137	
	shrish shrinath vaidya (Leader)	1RV20EC149	
6	Rakesh P Rathod	1RV20EC125	Energy conservation
	Shamanth S Bhat	1RV20EC139	
	Abhishek G D	1RV20EC004	
	Samarth Kumar Shetty	1RV20EC134	

7	Hima Priya KN	1RV20EC072	
	Kritin Hegde	1RV20EC090	
	Yashaswini M R	1RV20EC189	Battery management
8	Pruthvi R	1RV20ET040	Wind power system
	Nisarg Pyage	1RV20EC109	
9	Varun Chandra P	1RV20EC180	Compressed Air, Pumped Storage Hydropower and Hydrogen Energy Storage
	Veetrag Jain	1RV20EC181	
10	Vivek Singh	1RV20EI062	Solar Panel Parameterization Validation
11	Srishti Sudharshan	1RV20ET054	Super conducting magnetic energy storage
	Samarth M	1RV19ET049	
12	Pavan Jadhav	1RV20EI038	Grid Intregration of photovoltaic and wind power system

Case Study – 2

18EE7G2	Electrical Installation Estimation and Costing	1.Designing wiring detail for basement 2.Design and cost estimation for High rise building 3.Economical and safety structure of wiring and grounding	**Phase 1(10 M)** 1.Selection of topic, 2.Case study / Literature Review 3. Objectives 4. Methodology **Phase2 (10M):** 1. Implementation technique 2. Results 3. Individual / Team work	Getting good knowledge in core domain 2 helps in.Becoming self independent developer

			4. presentation/ report **Mode of Delivery :** Offline Presentation	

2019-20

Case Study – 1

Switchgear and Protection	1. Design of substation 2. **Design of various Relays using MATLAB Simulink** **3. case study on challenges faced in switchyard due to lightning**	**Phase 1(10 M)** 1.Selection of topic, 2.Case study / Literature Review 3. Objectives 4. Methodology **Phase2 (10M):** 1. Implementation technique 2. Results 3. Individual / Team work 4. presentation/ report **Mode of Delivery :** Offline Presentation	Students thinking level has increased which is reflected in terms of better performance and in turn better marks

Case Study – 2

18EE72	Power System Analysis - II	1.Various Analysis of power system network (IEEE 13 bus) using tools like MATLAB SIMULINK, MIPOWER, ETAP, POWER WORLD SIMULATOR, NEPLAN and COMSOL 2. Web APP/ Virtual lab development for Power system analysis using HTML, CSS, JAVA & JAVA Script 3. Solutions of real time problems in power system with the help of Algorithms and coding using High level languages.	**Phase 1(10 M)** 1.Selection of topic, 2.Case study / Literature Review 3. Objectives 4. Methodology **Phase2 (10M):** 1. Implementation technique 2. Results 3. Individual / Team work 4. presentation/ report **Mode of Delivery :** Offline Presentation	1.Many innovative EL topics have been considered as innovative lab component and resulted in good outcomes. 2. Students thinking level has increased which is reflected in terms of better performance and in turn better marks.

2018-19

Case Study – 1

18EE6D4	Electrical & Electronic Measurements	1.Analysis on VVC corrections implemented on digital instrument 2.New technology of error minimisation using	1.Analysis 2data collection 3.presentation 4.Report	1.Acquiring knowledge 2.understanding system functioning

		wrapped method 3.Data collection method analysis in successive approximation 4.Adaptability control to be analyzed in digital instrument		

Case Study – 2

18EE6C3	ARM Microcontroller and Embedded Systems	Model Based Prototype •Application Specific working Models •Simulation Based Circuit Analysis Industrial Problem solving Open Ended Experiments •Use of Software Tools •Physical Experimentation	**Phase 1(10 M) :** Selection of specific topic Introduction and detailed study of Case study / Literature Review. **Mode of Delivery :** Presentation/Video Based Seminar **Phase 2(10 M):** Experiment / Prototype/ Model making / Simulation with REport submission **Mode of Delivery :**	EL has, Improved number o students getting higher grades. facilitated in increase of passing percentage Given Good Practical Knowledge to students given a platform to Relate

			Presentation/Video Based Seminar	theory to practical. Enhanced Problem solving abilities in Students Provided opportunity to think, ideate, and build a prototype.

7. Recommendations for Integrating Experiential Learning:

Based on the findings of the report, this section provides practical recommendations for educators and institutions looking to integrate experiential learning into their teaching practices. It offers guidance on curriculum design, faculty training, and assessment methods tailored to experiential learning.

The integration of experiential learning has been successfully achieved in the Electrical and Electronics Engineering (EEE) department. Example is narrated w.r.t "Power Systems" and "Electric Machines":

1. **Curriculum Design**:
   - **Power Systems**: The EEE department has revolutionized its curriculum design, integrating experiential learning seamlessly into the "Power Systems" subject. Laboratory sessions now provide students with hands-on experience using simulation software to analyze power flow, fault conditions, and stability. Field trips to substations and generation facilities offer invaluable real-world exposure.
   - **Electric Machines**: Similarly, in the "Electric Machines" subject, the curriculum design reflects a commitment to experiential learning. Laboratory experiments allow students to assemble, test, and analyze various types of electric machines, fostering a deeper understanding of theoretical concepts through practical application.
2. **Faculty Training**:
   - **Power Systems**: Faculty members have undergone extensive training to effectively implement experiential learning methods in the "Power Systems" subject. Training workshops focused on power system simulation software, data analysis techniques, and industry best

practices have equipped instructors with the skills needed to engage students effectively.
- **Electric Machines**: Likewise, faculty teaching the "Electric Machines" subject have received specialized training on laboratory equipment operation, safety protocols, and experimental design. Their expertise ensures that students benefit from guided hands-on experiences that enhance their learning outcomes.

3. **Assessment Methods**:
   - **Power Systems**: Assessment methods in the "Power Systems" subject have been tailored to evaluate students' practical skills and understanding acquired through experiential learning. Laboratory reports, project presentations, and exams assess students' ability to apply power system analysis techniques effectively and communicate their findings.
   - **Electric Machines**: Similarly, assessments in the "Electric Machines" subject focus on practical application and critical thinking. Laboratory performance evaluations, design project reports, and conceptual understanding assessments provide students with opportunities to demonstrate their knowledge and skills in real-world scenarios.

Through these initiatives, the EEE department has successfully integrated experiential learning into its curriculum, providing students with invaluable hands-on experiences, enhancing faculty expertise, and implementing assessment methods tailored to experiential learning. As a result, students are better prepared for the challenges of the electrical engineering profession, equipped with practical skills, critical thinking abilities, and industry-relevant knowledge.

8. Outcome & Conclusion:

The report concludes by summarizing key findings and insights from the exploration of experiential learning practices. It underscores the importance of experiential learning in fostering student success and calls for continued efforts to promote its widespread adoption in engineering education.

The exploration of experiential learning practices in the Electrical and Electronics Engineering (EEE) department has yielded valuable insights into the transformative potential of hands-on learning experiences. Through a comprehensive review of curriculum design, faculty training initiatives, and assessment methods tailored to experiential learning, it has become evident that integrating practical experiences into engineering education is essential for fostering student success and preparing them for the challenges of the industry.

Key Findings and Insights:

1. **Enhanced Learning Outcomes**: Experiential learning activities, such as laboratory sessions, design projects, and industry collaborations, have been instrumental in enhancing students' understanding of theoretical concepts and developing practical skills essential for their future careers.
2. **Engagement and Motivation**: Hands-on experiences have proven to be highly engaging and motivating for students, sparking their curiosity, creativity, and passion for learning. Experiential learning fosters active participation, critical thinking, and a deeper sense of ownership over the learning process.

3. **Faculty Development**: Faculty training workshops and professional development initiatives have played a crucial role in equipping faculties with the pedagogical skills, technical expertise, and instructional strategies needed to effectively facilitate experiential learning activities.
4. **Authentic Assessment**: Assessment methods tailored to experiential learning, including project-based assessments, peer evaluations, and real-world case studies, have provided students with opportunities to demonstrate their competencies in practical problem-solving, teamwork, and communication.
5. **Industry Relevance**: Collaborations with industry partners have enriched the learning experience by providing students with access to real-world projects, cutting-edge technologies, and industry insights. Experiential learning bridges the gap between academic theory and industry practice, preparing students for successful careers in electrical engineering.

Call for Action:

In light of the compelling evidence supporting the benefits of experiential learning, it is imperative that the EEE department continues to prioritize and promote its widespread adoption in engineering education. This calls for sustained efforts to:

- Further integrate hands-on experiences into the curriculum across all courses and program levels.
- Invest in faculty development programs to ensure instructors are well-equipped to facilitate experiential learning activities effectively.
- Continuously refine assessment methods to align with the principles of experiential learning and provide meaningful feedback to students.
- Cultivate and expand industry partnerships to provide students with opportunities for real-world engagement and professional development.

Conclusion:

Experiential learning is not merely a pedagogical approach; it is a catalyst for transformation in engineering education. By embracing experiential learning practices, the EEE department can empower students to become innovative problem solvers, critical thinkers, and lifelong learners who are well-prepared to make meaningful contributions to the field of electrical and electronics engineering. Let us commit to fostering a culture of experiential learning that inspires excellence, fosters creativity, and drives student success in the years to come.

RV Educational Institutions
RV College of Engineering
Autonomous Institution Affiliated to Visvesvaraya Technological University, Belagavi
Approved by AICTE, New Delhi

RVCE/DA/ 1018 /2022-23 Thursday, August 24, 2023

CIRCULAR

Sub: Schedule and Assessment of EL for Communicative English-II (22HSE26)-Reg

1. This is to bring to the notice all the Department heads that as part of Experiential Learning for Communicative English II (22HSE 26), students have chosen two activities, one under oral communication skills **(Group A)** and one under written communication skills **(Group B)**. The activities of **Group A** and **Group B** will be assessed for 10 marks each.
2. The following are the list of **Group A** and **Group B** Activities

Group A		**Group B**	
Activities	Total number of students participating in each activity	Activities	Total number of students participating in each activity
Debate	229	Poetry writing	99
Pick and speak	170	Blog	83
Standup comedy	21	crossword puzzles	214
Play/drama	44	Essays	943
Videos on grammar topics	700	English Magazine	28
Travel Vlog	203		
Total Number of Students	1367	Total Number of Students	1367

2. The assessment of **Group A** activities will be conducted on the dates specified below.

Sl.no	Activities	Date of conduction
1	Pick and speak	Aug 26, 2023 (offline activity)
2	Debate	Aug 31, 2023 (2 PM-5 PM) (offline activity)
3	Travel Vlog	Sep 2, 2023 (online submission)
4	Videos on grammar topics	Sep 2, 2023 (online submission)
5	Standup comedy	Sep 8, 2023 (2 PM-5 PM) (offline activity)
6	Play/drama	Sep 8, 2023 (2 PM-5 PM) (offline activity)

3.The assessment of **Group B** activities will be scheduled by respective departments and will be intimated to students

4. Information regarding venue of **Group A** activities will be communicated to students a day before the evaluation.

5. An online orientation session will be conducted for students who are registered for the Drama and English magazine. Date and time of orientation will be intimated shortly through department coordinators.

Enclosures:

1. Department wise statistics of number of students participating in various activities under oral and written communication skills
2. Department wise student registration list of EL activities
3. Guidelines for students for various EL activities

Coordinator Aug 24/23

Dean Academics 24/8/23

DEAN ACADEMICS
R.V. College of Engineering
Bengaluru - 560 059

Principal 24/8

PRINCIPAL
R.V. College of Engineering
Bengaluru - 560 059

Copy to:

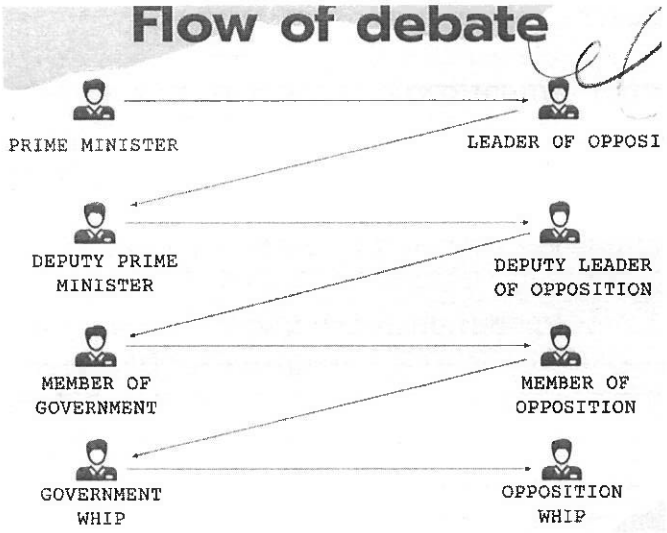
1. Dean Student Affairs.
2. HoDs for information and needful.
3. English lab coordinators of respective programs.
4. First year Counselors.

Guidelines for Students involved in various EL activities

Group A

1. Debate

- This is a team activity
- A debate session will have 8 students in two teams. Each team will consist of 4 members.
- List of teams will be circulated shortly
- Preparation time will be 25 minutes where each team will discuss the topic in depth.
- Each member of the team needs to give a 3 minute speech based on the order shown in the following flow chart.
- Speakers can read off a sheet of paper during the speech.
- Use of the internet is strictly prohibited.
- Speakers will be graded only on the degree of persuasiveness and analysis. Manner of speaking (accents,rhetoric,etc..) will not be subject to evaluation.
- The speech structure of ARE (Argument->Reasoning->Example/Evidence) is encouraged.



Speaker Roles

Government

1. Prime Minister: The PM's role is to present a persuasive case by defining the motion, clarifying terms, and provide arguments for their case.
2. Deputy PM: The DPM's role is to refute the LO, while strengthening their case by adding new arguments and analysis
3. Member of Govt: The MOG counters the DLO's points and engages with oppositions case, while introducing some new arguments.
4. Govt. Whip: The Gov Whip summarizes the debate and explains why they deserve to win over opp. New arguments cannot be introduced

Opposition

5. Leader of Opp: The LO refutes the PMs case, provides the Opposition's stance on the motion, and provides arguments in support of their position
6. Member of Opp: The MOG counters the DLO's points and engages with oppositions case, while introducing some new arguments.
7. Deputy Leader of Opp: The DLO reinforces their partner's case, counters DPM's new points, Also, adds new points and layers of analysis supporting their position.
8. Opp Whip The Opp Whip summarizes the debate and explains why they deserve to win over gov side. New arguments cannot be introduced

Debate Themes

1. Philosophy: Philosophy debates delve into life's core concepts, fostering critical thinking through discussions on ethics, beliefs, and perspectives, while serving as a platform for dissecting impactful ideas.
2. Pop Culture: "Pop culture" as a theme in debates involves analyzing movies, music,social media, and more. It's about analysing the impact of pop culture in our everyday lives and in shaping our preferences, behaviors, and even our perceptions of the world around us
3. Education: This involves examining how policies influence the educational landscape. At the same time, we delve into diverse aspects of education, and how education affects various communities.
4. Environment: For debates about the environment, the theme is about weighing different socio-economic policies and how it affects the environment both in the long-term and short-term.

2. Pick and Speak

- This is an Individual Activity.
- The student will pick up a chit and on the selected topic will speak for about 2-3 minutes
- Speech should be completely in English.
- The venue for the conduction of EL will be intimated a day before the event
- Themes for Pick and speak: Education, Environment, Gender equality, Employment, Technology, corruption, Greatest leaders, Noble prize, philosophy.
- Students will be judged on content, delivery, clarity and expression originality, critical thinking

3. Stand up comedy

- It is an individual activity.
- Time limit is 4-5 Minutes.
- Participants can choose their own topic.
- Your material has to be original
- No participant can point out any individual or religion in any way, and any dual meaning obscene content is strictly not allowed.
- Participants will be evaluated on the basis of content, fluency, spontaneity, presentation & sense of humor.

4. Drama

- It's a team activity. However, Mono acting is also allowed
- Each team comprises a minimum of 3 students to a maximum of 6 students
- It is encouraged that the majority of the team members act and speak. This will work in favour of the team
- The selection of theme is open but should not touch on sensitive issues for instance, race, religion, politics etc
- Students can make their own teams for drama. Please refer to the attached list of students enrolled for drama
- Students will be judged on acting performance (how well the character was portrayed on stage), Dialogue (written and the way it is delivered on stage, grammar) , Script (originality, theme, impact) , technical aspect(use of stage, music, costume), Overall performance (audience impact), positive values or messages
- An online orientation for these students will be conducted. Date and time of orientation will be intimated shortly through department coordinators.

5. Travel vlogs

It is a team/individual activity. However, if it is a travel vlog, individual activity is allowed.

Time limit for videos is 5-8 minutes

Student face should be visible in videos

Students are encouraged to present videos in an innovative manner.

Submit the videos to the department coordinators by Sep 2, 2023. The mode of submission will be intimated by department coordinators.

Evaluation is based on content quality, video and sound clarity, speech and grammar.

6. videos on grammar topics

- It is a team activity. However, if it is a travel vlog, individual activity is allowed.
- Time limit for videos is 5-8 minutes
- Student face should be visible in videos
- Students are encouraged to present videos in an innovative manner. Complete PPT presentations should be avoided.
- Submit the videos to the department coordinators by Sep 2, 2023. The mode of submission will be intimated by department coordinators.
- Evaluation is based on content quality, video and sound clarity, speech and grammar.

Group B

1. Essays/Blogs

- It is an individual activity
- Topic of the essay/blog will be provided at the venue
- The students will be given 1.5 hrs time to develop the content and write the essay or blog.
- No internet, printed materials, electronic gadgets, or storage devices shall be utilized.
- Essay should not exceed 1000 words
- Evaluation is based on content, organization and grammar

2. Poetry

- It is an individual activity
- 3 Poem themes will be announced and students can pick a theme of interest
- Students will be given 1.5 hrs time to develop the poem and write
- The title of the poem should be clearly stated. The length of the poem should be a minimum of 60 words and a maximum of 180 words
- No internet, printed materials, electronic gadgets, or storage devices shall be utilized.
- Evaluation is based on content and structure, rhythm, obvious and implied meanings and convention.

3. English magazine

- It is a team activity
- Students should form teams and cover all the EL activities and submit a report in the magazine format by Sep 10, 2023.
- An online orientation for these students will be conducted.
- Date and time of orientation will be intimated shortly through department coordinators.

4. Crossword puzzle

- It is an individual/team activity
- Each team receives the same puzzle
- No one gets to see the puzzle until the timer begins
- Individuals or teams try to put the puzzle together the fastest
- Rounds are a specified amount of time, two rounds of session are conducted
- Evaluation is based on solving all the puzzles, and the time taken to solve the puzzle.

Aug 24/23
Coordinator

24/8/23
Dean Academics

Dean Academics
RV College of Engineering
Bengaluru - 560 059.

24/8
Principal

PRINCIPAL
R.V. College of Engineering
Bengaluru - 560 059

Summary of EL activities Communicative English II (22HSE26)

	Total no. of students in each department	65	63	64	122	42	240	63	63	63	65	191	63	81	64	128	1377
	No. of students opted for following activities under oral communication skill	AS	AI	BT	CV	CH	CS	CY	CD	EI	EBE	EC	ET	IS	IM	ME	
1	Pick and speak	5	2	5	18	21	17	***	2	10	6	13	1	8	5	57	170
2	Debate	20	12	23	19	10	17	6	2	8	4	39	14	14	26	15	229
3	Travel Vlog	18	15	11	17	4	7	10	1	1	32	23	19	11	6	28	203
4	Videos on grammar topics	12	32	25	48	7	196	46	55	31	20	103	28	46	26	25	700
5	Standup comedy	2	0	0	14	0	1	1		0	0	1	1	0		1	21
6	Play/drama	8	0	0	6	0	0	***		12	2	11	0	2	1	2	44
	Total number of students for oral communication	65	61	64	122	42	239	63	60	62	64	190	63	81	64	128	1367
	No. of students opted for following activities under written communication skill																
1	Poetry writing	9	3	5	19	6	14	2	3	4	4	6	0	7	4	13	99
2	Blog	2	5	4	10	4	7	4	2	5	1	11	4	5	9	10	83
3	crossword puzzles	6	11	2	24	9	11	5	10	16	13	30	0	7	7	63	214
4	Essays	47	41	47	61	23	207	51	45	35	45	143	53	62	44	39	943
5	Technical Magazine	1	1	6	8	0	0	1		2	1	---	5	0		3	28
	Total number of students for written communication	65	61	64	122	42	239	63	60	62	64	190	62	81	64	128	1367

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1	Pick and speak	5	2	5	18	21	17	***	2	10	6	13	1	8	5	57	170
2	Debate	20	12	23	19	10	17	6	2	8	4	39	14	14	26	15	229
3	Travel Vlog	18	15	11	17	4	7	10	1	1	32	23	19	11	6	28	203
4	Videos on grammar topics	12	32	25	48	7	196	46	55	31	20	103	28	46	26	25	700
5	Standup comedy	2	0	0	14	0	1	1		0	0	1	1	0		1	21
6	Play/drama	8	0	0	6	0	0	***		12	2	11	0	2	1	2	44
	Total number of students for oral communication	65	61	64	122	42	238	63	60	62	64	190	63	81	64	128	1367
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1	Poetry writing	9	3	5	19	6	14	2	3	4	4	6	0	7	4	13	99
2	Blog	2	5	4	10	4	7	4	2	5	1	11	4	5	9	10	83
3	crossword puzzles	6	11	2	24	9	11	5	10	16	13	30	0	7	7	63	214
4	Essays	47	41	47	61	23	207	51	45	35	45	143	53	62	44	39	943
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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023

SL NO	USN	NAME	STUDENT RVCE EMAIL ID	Activity chosen under Oral Communication	Activity chosen under Written Communication
1	1RV22CV001	ABHIJIT DUTTA	abhijitdutta.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
2	1RV22CV002	ABHINAV MANDA	abhinavmanda.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
3	1RV22CV003	ADITYA KUMAR	adityakumar.cv22@rvce.edu.in	Debate	Technical Magazine
4	1RV22CV004	ADITYA SHETTAR	adityashettar.cv22@rvce.edu.in	Videos on Grammar Topics	Poetry Writing
5	1RV22CV005	AJAY	ajay.cv22@rvce.edu.in	Travel Vlog	Essays
6	1RV22CV006	AKASH KUMAR SINGH	akashksingh.cv22@rvce.edu.in	Debate	Technical Magazine
7	1RV22CV007	AKSHAT SHEKHAR JHA	akshatshekharj.cv22@rvce.edu.in	Play/Drama	Blog
8	1RV22CV008	AMAN PRAKASH	amanprakash.cv22@rvce.edu.in	Debate	Crossword Puzzles
9	1RV22CV009	AMITH GOWDA M P	amithgowdamp.cv22@rvce.edu.in	Play/Drama	Crossword Puzzles
10	1RV22CV010	ANAND KUMAR	anandkumar.cv22@rvce.edu.in	Pick and Speak	Essays
11	1RV22CV011	ANIKA SURESH	anikasuresh.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
12	1RV22CV012	ANKESH RANJAN	ankeshranjan.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
13	1RV22CV013	ARJUN P V	arjunpv.cv22@rvce.edu.in	Travel Vlog	Essays
14	1RV22CV014	ARYAN KUMAR	aryankumar.cv22@rvce.edu.in	Play/Drama	Crossword Puzzles
15	1RV22CV015	BHARATH KUMAR G	bharathkumarg.cv22@rvce.edu.in	Debate	Technical Magazine
16	1RV22CV016	BHAVANI SHANKAR SAIRAM	bhavanissr.cv22@rvce.edu.in	Pick and Speak	Crossword Puzzles
17	1RV22CV017	BRUNDA K S	brundaks.cv22@rvce.edu.in	Pick and Speak	Essays
18	1RV22CV018	CHANDANA V R	chandanavr.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
19	1RV22CV019	CHINMAYA R	chinmayar.cv22@rvce.edu.in	Pick and Speak	Crossword Puzzles
20	1RV22CV020	DAKSHAK H	dakshakh.cv22@rvce.edu.in	Standup Comedy	Crossword Puzzles
21	1RV22CV021	DARSHAN P	darshanp.cv22@rvce.edu.in	Pick and Speak	Crossword Puzzles
22	1RV22CV022	DARSHAN R	darshanr.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
23	1RV22CV023	DEEKSHITH J	deekshithj.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
24	1RV22CV024	DEEPTI K M	deeptikm.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
25	1RV22CV025	DEV	dev.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
26	1RV22CV026	DHRITY KISHORE	dhritykishore.cv22@rvce.edu.in	Videos on Grammar Topics	Technical Magazine
27	1RV22CV027	DHRUV MAHIPAL PARMAR	dhruvmparmar.cv22@rvce.edu.in	Play/Drama	Poetry Writing
28	1RV22CV028	DILIP M GOWDA	dilipmgowda.cv22@rvce.edu.in	Debate	Technical Magazine
29	1RV22CV029	GIRISH P ALUR	girishpalur.cv22@rvce.edu.in	Standup Comedy	Blog
30	1RV22CV030	GURURAM C S	gururamcs.cv22@rvce.edu.in	Pick and Speak	Essays
31	1RV22CV031	HANISHA R	hanishar.cv22@rvce.edu.in	Standup Comedy	Poetry Writing
32	1RV22CV032	HARDIK RAJAN	hardikrajan.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
33	1RV22CV033	HARSH KUMAR SINGH	harshsingh.cv22@rvce.edu.in	Standup Comedy	Crossword Puzzles
34	1RV22CV034	HARSH SHARMA	harshsharma.cv22@rvce.edu.in	Videos on Grammar Topics	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
35	1RV22CV035	HARSHA PATIL G C	harshapatilgc.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
36	1RV22CV036	HARSHADEV K BARSE	harshadevkb.cv22@rvce.edu.in	Play/Drama	Poetry Writing
37	1RV22CV037	HARSHITH L	harshithl.cv22@rvce.edu.in	Debate	Crossword Puzzles
38	1RV22CV038	HEMANTH KUMAR G K	hemanthkumargk.cv22@rvce.edu.in	Standup Comedy	Poetry Writing
39	1RV22CV039	HITESH VIHAN H K	hiteshk.cv22@rvce.edu.in	Debate	Crossword Puzzles
40	1RV22CV040	J VENKAT	jvenkat.cv22@rvce.edu.in	Standup Comedy	Technical Magazine
41	1RV22CV041	JAYATHEERTHA SG	jayatheerthasg.cv22@rvce.edu.in	Pick and Speak	Essays
42	1RV22CV042	K DHANUSH	kdhanush.cv22@rvce.edu.in	Standup Comedy	Crossword Puzzles
43	1RV22CV043	K LALRINHLUZUALA	klalrinhluzuala.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
44	1RV22CV044	KAVYA T	kavyat.cv22@rvce.edu.in	Standup Comedy	Poetry Writing
45	1RV22CV045	KHUSHI T	khushit.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
46	1RV22CV046	KIRAN TONDIHAL	kirantondihal.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
47	1RV22CV047	KRISHNA REDDY	krishnareddy.cv22@rvce.edu.in	Pick and Speak	Essays
48	1RV22CV048	KUSHAL A NAIK	kushal anaik.cv22@rvce.edu.in	Pick and Speak	Crossword Puzzles
49	1RV22CV049	LAVANYA N	lavanyan.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
50	1RV22CV050	MADHU K J	madhukj.cv22@rvce.edu.in	Standup Comedy	Crossword Puzzles
51	1RV22CV051	MADHUSUDHAN S V	madhusudhansv.cv22@rvce.edu.in	Standup Comedy	Poetry Writing
52	1RV22CV052	MAKTUMSAB IMAMASAB MULL	maktumsabim.cv22@rvce.edu.in	Pick and Speak	Blog
53	1RV22CV053	MANISH S	manishs.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
54	1RV22CV054	MAURYA K KUBER	mauryakkuber.cv22@rvce.edu.in	Travel Vlog	Essays
55	1RV22CV055	MAYANK MISHRA	mayankmishra.cv22@rvce.edu.in	Pick and Speak	Technical Magazine
56	1RV22CV056	MINGKILING PERTIN	mingkilingp.cv22@rvce.edu.in	Debate	Crossword Puzzles
57	1RV22CV057	MOHAMMED HARIS	mohammedharis.cv22@rvce.edu.in	Pick and Speak	Poetry Writing
58	1RV22CV058	MOHAMMED ZAINULLA BUDEE	mohammedzb.cv22@rvce.edu.in	Pick and Speak	Blog
59	1RV22CV059	MOHITH P L	mohithpl.cv22@rvce.edu.in	Standup Comedy	Poetry Writing
60	1RV22CV060	MOIRANGTHEM RENANJIT SING	moirangthemrs.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
61	1RV22CV061	MR V MADHUKUMAR	mrvmadhukumar.cv22@rvce.edu.in	Standup Comedy	Blog
62	1RV22CV062	MUHAMMED SHAZ B	muhammedshazb.cv22@rvce.edu.in	Travel Vlog	Essays
63	1RV22CV063	MUKUND BHANDARI	mukundbhandari.cv22@rvce.edu.in	Standup Comedy	Technical Magazine
64	1RV22CV064	MUTHU RAJ S	muthurajs.cv22@rvce.edu.in	Travel Vlog	Essays
65	1RV22CV065	NAGESH KADAPPA BETAGERI	nageshkb.cv22@rvce.edu.in	Standup Comedy	Poetry Writing
66	1RV22CV066	NARESH S S	nareshss.cv22@rvce.edu.in	Travel Vlog	Essays
67	1RV22CV067	NIKHIL NARAYAN HAWALDAR	nikhilnh.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
68	1RV22CV068	NIKHITA JAKKAPPA BIRADAR	nikhitajb.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
69	1RV22CV069	NIRANJAN MALLIKARJUN SINDI	niranjanms.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
70	1RV22CV070	PARASMANI PARAS	parasmaniparas.cv22@rvce.edu.in	Videos on Grammar Topics	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
71	1RV22CV071	POORNACHANDRA B K	poornachandrabk.cv22@rvce.edu.in	Videos on Grammar Topics	Poetry Writing
72	1RV22CV072	PRADEEP S	pradeeps.cv22@rvce.edu.in	Travel Vlog	Essays
73	1RV22CV073	PRAGATHI B	pragathib.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
74	1RV22CV074	PRAJWAL B R	prajwalbr.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
75	1RV22CV075	PRAJWAL C	prajwalc.cv22@rvce.edu.in	Debate	Poetry Writing
76	1RV22CV076	PRAJWAL K GOWDA	prajwalkgowda.cv22@rvce.edu.in	Videos on Grammar Topics	Poetry Writing
77	1RV22CV077	PRANJAL AGRAWAL	pranjalagrawal.cv22@rvce.edu.in	Travel Vlog	Essays
78	1RV22CV078	PRASHASTI JAISWAL	prashastij.cv22@rvce.edu.in	Play/Drama	Poetry Writing
79	1RV22CV079	PRIYANSH AGARWAL	priyansha.cv22@rvce.edu.in	Debate	Essays
80	1RV22CV080	RADHE NITIN	radhenitin.cv22@rvce.edu.in	Travel Vlog	Essays
81	1RV22CV081	RAHUL	rahul.cv22@rvce.edu.in	Debate	Poetry Writing
82	1RV22CV082	RAKSHITHA B SIDDAPPA	rakshithabs.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
83	1RV22CV083	REVATHI M	revathim.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
84	1RV22CV084	RHYTHM AGARWAL	rhythmagarwal.cv22@rvce.edu.in	Videos on Grammar Topics	Crossword Puzzles
85	1RV22CV085	ROHAN C	rohanc.cv22@rvce.edu.in	Videos on Grammar Topics	Crossword Puzzles
86	1RV22CV086	ROHIT KUMAR	rohitkumar.cv22@rvce.edu.in	Debate	Essays
87	1RV22CV087	S BALAJI SAGAR	balajisagar.cv22@rvce.edu.in	Debate	Crossword Puzzles
88	1RV22CV088	S PREMSAI	spremsai.cv22@rvce.edu.in	Debate	Crossword Puzzles
89	1RV22CV089	SACHIN REDDY	sachinreddy.cv22@rvce.edu.in	Debate	Blog
90	1RV22CV090	SADHANA C K	sadhanack.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
91	1RV22CV091	SADIQ SAIDUSAB MUDDAPUR	sadiqsmuddapur.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
92	1RV22CV092	SAGNIK GOSWAMI	sagnikgoswami.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
93	1RV22CV093	SAHIL BHANAWAT	sahilbhanawat.cv22@rvce.edu.in	Travel Vlog	Blog
94	1RV22CV094	SANJANA	sanjana.cv22@rvce.edu.in	Travel Vlog	Poetry Writing
95	1RV22CV095	SATHYA SAGAR D	sathyasagard.cv22@rvce.edu.in	Debate	Crossword Puzzles
96	1RV22CV096	SATYAM KUMAR	satyamkumar.cv22@rvce.edu.in	Travel Vlog	Blog
97	1RV22CV097	SHASHANK KABADAR	shashankk.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
98	1RV22CV098	SHASHWAT SINGH	shashwatsingh.cv22@rvce.edu.in	Travel Vlog	Poetry Writing
99	1RV22CV099	SHIVANGOUDA SHANKARAGOU	shivangoudasp.cv22@rvce.edu.in	Pick and Speak	Essays
100	1RV22CV100	SHREYA BELAVI	shreyabelavi.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
101	1RV22CV101	SHREYA SANGANGOUDA PATIL	shreyaspatil.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
102	1RV22CV102	SHREYAS H C	shreyashc.cv22@rvce.edu.in	Travel Vlog	Blog
103	1RV22CV103	SHREYAS S	shreyass.cv22@rvce.edu.in	Videos on Grammar Topics	Crossword Puzzles
104	1RV22CV104	SOMASHEKAR L	somashekarl.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
105	1RV22CV105	SRIJITA BHATTACHARJEE	srijitab.cv22@rvce.edu.in	Pick and Speak	Crossword Puzzles
106	1RV22CV106	SUBENDU KR DAS	subendukrdas.cv22@rvce.edu.in	Videos on Grammar Topics	Crossword Puzzles

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
107	1RV22CV107	SUDEEP R SIRUR	sudeeprsirur.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
108	1RV22CV108	SUDHANSHU KUMAR	sudhanshukumar.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
109	1RV22CV109	SUDIPTHI S M	sudipthism.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
110	1RV22CV110	SUPRITH S N	suprithsn.cv22@rvce.edu.in	Pick and Speak	Essays
111	1RV22CV111	SWEEKRUTH K H	sweekruthkh.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
112	1RV22CV112	TEJAS R	tejasr.cv22@rvce.edu.in	Videos on Grammar Topics	Poetry Writing
113	1RV22CV113	TUSHAR SAHU	tusharsahu.cv22@rvce.edu.in	Travel Vlog	Blog
114	1RV22CV114	U SUJAL AHMED	usujalahmed.cv22@rvce.edu.in	Videos on Grammar Topics	Crossword Puzzles
115	1RV22CV115	UTKARSH AMARESH	utkarshamaresh.cv22@rvce.edu.in	Debate	Essays
116	1RV22CV116	UTKARSH BHARTI	utkarshbharti.cv22@rvce.edu.in	Debate	Essays
117	1RV22CV117	VACHAN H	vachanh.cv22@rvce.edu.in	Pick and Speak	Essays
118	1RV22CV118	VIKAS A M	vikasam.cv22@rvce.edu.in	Debate	Crossword Puzzles
119	1RV22CV119	VISHNU S	vishnus.cv22@rvce.edu.in	Travel Vlog	Essays
120	1RV22CV120	VISHNU SINGH	vishnusingh.cv22@rvce.edu.in	Videos on Grammar Topics	Essays
121	1RV22CV121	VISHRUTH J	vishruthj.cv22@rvce.edu.in	Travel Vlog	Poetry Writing
122	1RV22CV122	VISHWA KIRAN KULKARNI	vishwakk.cv22@rvce.edu.in	Pick and Speak	Essays

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: MECHANICAL ENGG., PROGRAM FOR THE YEAR 2022 - 2023

SL NO	USN	NAME	STUDENT RVCE EMAIL ID	Activity chosen under Oral Communication	Activity chosen under Written Communication
1	1RV21ME040	KUNAL DILEEP BHAIRODGI	kdileepb.me21@rvce.edu.in	Debate	Blog
2	1RV22ME001	A DHEERAJ	adheeraj.me22@rvce.edu.in	VIDEO ON GRAMMER TOPIC	CROSSWORD PUZZLES
3	1RV22ME002	AADITYA BARDHAN	aadityabardhan.me22@rvce.edu.in	Pick and speak	Poetry writing
4	1RV22ME003	AAKASH R J	aakashrj.me22@rvce.edu.in	Pick and speak	crossword puzzles
5	1RV22ME004	ABDUL RAHMAN KHAN	abdulrahmank.me22@rvce.edu.in	Travel Vlog	Essays
6	1RV22ME005	ABHAY GUPTA	abhaygupta.me22@rvce.edu.in	Pick and speak	crossword puzzles
7	1RV22ME006	ABHAY KAUSHAL	abhaykaushal.me22@rvce.edu.in	VIDEO ON GRAMMER TOPIC	CROSSWORD PUZZLES
8	1RV22ME007	ABHINAV MAHESHWARI	abhinavm.me22@rvce.edu.in	Pick and speak	Poetry writing
9	1RV22ME008	ABHISHEK L	abhishekl.me22@rvce.edu.in	Pick and speak	crossword puzzles
10	1RV22ME009	ABHISHIKTH JOHN	abhishikthjohn.me22@rvce.edu.in	Pick and speak	crossword puzzles
11	1RV22ME010	ADARSH KRISHNA	adarshkrishna.me22@rvce.edu.in	Debate	crossword puzzles
12	1RV22ME011	ADITHYA RAMESH	adithyaramesh.me22@rvce.edu.in	Travel Vlog	Essays
13	1RV22ME012	ADITHYA RANJITH	adithyaranjith.me22@rvce.edu.in	Pick and speak	crossword puzzles
14	1RV22ME013	ADITYA AGRAWAL	adityaagrawal.me22@rvce.edu.in	Debate	Essay
15	1RV22ME014	ADITYA G A	adityaga.me22@rvce.edu.in	Pick and speak	crossword puzzles
16	1RV22ME015	ADITYA SINGH	adityasingh.me22@rvce.edu.in	Pick and speak	Poetry writing

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17	1RV22ME016	AKHIL PRATAP SINGH	akhilprataps.me22@rvce.edu.in	Pick and speak	crossword puzzles
18	1RV22ME017	AKHILESH JOSHI	akhileshjoshi.me22@rvce.edu.in	VIDEO ON GRAMMER TOPIC	CROSSWORD PUZZLES
19	1RV22ME018	AMISH SRIVASTAVA	amishs.me22@rvce.edu.in	Pick and speak	Poetry writing
20	1RV22ME019	AMITHA A V	amithaav.me22@rvce.edu.in	Debate	Essay
21	1RV22ME020	AMOD MARUTHI KOTADAMAKK	amodmaruthik.me22@rvce.edu.in	pick znd speak	CROSSWORD
22	1RV22ME021	AMRITANSHU SHARMA	amritanshus.me22@rvce.edu.in	VIDEO ON GRAMMER TOPIC	CROSSWORD PUZZLES
23	1RV22ME022	AMULYA K V	amulyakv.me22@rvce.edu.in	Pick and speak	Poetry writing
24	1RV22ME023	ANAMIKA YADAV	anamikayadav.me22@rvce.edu.in	Pick and speak	crossword puzzles
25	1RV22ME024	ANIRUDDH GOUTHAM KANDAG	aniruddhgk.me22@rvce.edu.in	Debate	crossword puzzles
26	1RV22ME025	ANKITA M	ankitam.me22@rvce.edu.in	Travel Vlog	Essays
27	1RV22ME026	ANSH	ansh.me22@rvce.edu.in	VIDEO ON GRAMMER TOPIC	CROSSWORD PUZZLES
28	1RV22ME027	ARCHIT S K	architsk.me22@rvce.edu.in	Pick and speak	Poetry writing
29	1RV22ME028	ARJUN PREMY	arjunpremy.me22@rvce.edu.in	Pick and speak	crossword puzzles
30	1RV22ME029	ARVIND RAJARAMAN	arvindr.me22@rvce.edu.in	Debate	crossword puzzles
31	1RV22ME030	ARYAN GUPTA	aryangupta.me22@rvce.edu.in	Pick and speak	Poetry writing
32	1RV22ME031	ASHUTOSH KUMAR	ashutoshkumar.me22@rvce.edu.in	Pick and speak	crossword puzzles
33	1RV22ME032	ASHWIN KADLOOR	ashwinkadloor.me22@rvce.edu.in	Debate	crossword puzzles
34	1RV22ME033	ASMIT KASHYAP	asmitkashyap.me22@rvce.edu.in	Travel Vlog	Essays
35	1RV22ME034	ATHARVA MANJUNATH MUGALI	atharvammuali.me22@rvce.edu.in	Pick and speak	Poetry writing
36	1RV22ME035	ATREYA A	atreyaa.me22@rvce.edu.in	Pick and speak	crossword puzzles
37	1RV22ME036	BASAVARAJ NANDEPPA SANGA	basavarajsans.me22@rvce.edu.in	Debate	crossword puzzles
38	1RV22ME037	BHEEMAPPA KURI	bheemappakuri.me22@rvce.edu.in	Travel Vlog	Essays
39	1RV22ME038	BHUVAN KRISHNA REDDY P	bhuvankreddyp.me22@rvce.edu.in	VIDEO ON GRAMMER TOPIC	CROSSWORD PUZZLES
40	1RV22ME039	BHUVAN SAI S	bhuvansais.me22@rvce.edu.in	Pick and speak	Poetry writing
41	1RV22ME040	C R SAHANA	crsahana.me22@rvce.edu.in	Pick and speak	crossword puzzles
42	1RV22ME041	CHANDAN R	chandanr.me22@rvce.edu.in	Pick and speak	crossword puzzles
43	1RV22ME042	CHINMAY SHIVANAND UDAPUD	chinmaysu.me22@rvce.edu.in	Debate	crossword puzzles
44	1RV22ME043	CHIRANTH D M	chiranthdm.me22@rvce.edu.in	Travel Vlog	Essays
45	1RV22ME044	DEV MANDLOI	devmandloi.me22@rvce.edu.in	VIDEO ON GRAMMER TOPIC	CROSSWORD PUZZLES
46	1RV22ME045	GAD SUCHETAN SANTOSH	gssantosh.me22@rvce.edu.in	Travel Vlog	Essays
47	1RV22ME046	GANESH PRADEEP YELI	ganeshpradeepy.me22@rvce.edu.in	VIDEO ON GRAMMER TOPIC	CROSSWORD PUZZLES
48	1RV22ME047	GAURAV RAJU	gauravraju.me22@rvce.edu.in	Pick and Speak	crossword puzzles
49	1RV22ME048	GAUTAM KUMAR	gautamkumar.me22@rvce.edu.in	Pick and Speak	ESSAY
50	1RV22ME049	GAUTAM SONI	gautamsoni.me22@rvce.edu.in	Pick and speak	crossword puzzles
51	1RV22ME050	HITESH J	hiteshj.me22@rvce.edu.in	Pick and speak	crossword puzzles
52	1RV22ME051	HRIDAY JAIN	hridayjain.me22@rvce.edu.in	Debate	crossword puzzles

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53	1RV22ME052	HRUSHIKESH KANKURTE	hrushikeshk.me22@rvce.edu.in	Travel Vlog	Essays
54	1RV22ME053	KADAM RAJWARDHAN SANTOS	kadamrsantosh.me22@rvce.edu.in	Pick and speak	crossword
55	1RV22ME054	KARTHIK S	karthiks.me22@rvce.edu.in	Vedios on Grammer Topics	Blog
56	1RV22ME055	KARTHIK SHANKAR	karthikshankar.me22@rvce.edu.in	Vedios on Grammer Topics	Blog
57	1RV22ME056	KAVANA N MURTHY	kavananmurthy.me22@rvce.edu.in	Pick and speak	essay
58	1RV22ME057	KESHAV SARDA	keshavsarda.me22@rvce.edu.in	Vedios on Grammer Topics	Blog
59	1RV22ME058	KIRAN KUMAR M	kirankumarm.me22@rvce.edu.in	Pick and speak	essay
60	1RV22ME059	KOTTE ANIRUDH	kotteanirudh.me22@rvce.edu.in	Pick and Speak	ESSAY
61	1RV22ME060	KRITIK MODAWEL	kritikmodawel.me22@rvce.edu.in	Pick and speak	crossword puzzles
62	1RV22ME061	KUMAR GAURAV	kumargaurav.me22@rvce.edu.in	Pick and speak	crossword puzzles
63	1RV22ME062	KUSHAGRA KUMAR	kushagrakumar.me22@rvce.edu.in	Vedios on Grammer Topics	Blog
64	1RV22ME063	LABDHI RANKA	labdhiranka.me22@rvce.edu.in	Vedios on Grammer Topics	Blog
65	1RV22ME064	LINGARAJ	lingaraj.me22@rvce.edu.in	Pick and speak	Essays
66	1RV22ME065	MADHAVAN B	madhavanb.me22@rvce.edu.in	Vedios on Grammer Topics	Blog
67	1RV22ME066	MADHU NAIK R	madhunaikr.me22@rvce.edu.in	Pick and speak	crossword puzzles
68	1RV22ME067	MAHIN SINGH	mahinsingh.me22@rvce.edu.in	Debate	crossword puzzles
69	1RV22ME068	MANAV S BHARADWAJ	manavsbharadwa.me22@rvce.edu.in	Travel Vlog	Essays
70	1RV22ME069	MANTHENA HANISH VARMA	mvarmavarma.me22@rvce.edu.in	Pick and speak	crossword
71	1RV22ME070	MANUKISHOR P	manukishorp.me22@rvce.edu.in	Travel Vlog	Essays
72	1RV22ME071	MASIDD LAGALI	masiddlagali.me22@rvce.edu.in	Pick and speak	crossword
73	1RV22ME072	MEGHANA S	meghanas.me22@rvce.edu.in	Travel Vlog	Essays
74	1RV22ME073	MOHAMMED UMAIR ABBAS	mdumairabbas.me22@rvce.edu.in	Pick and speak	crossword
75	1RV22ME074	NAMITH RINESH KIRAN	namithrineshk.me22@rvce.edu.in	Pick and speak	crossword
76	1RV22ME075	NISCHITHA DV	nischithadv.me22@rvce.edu.in	Travel Vlog	Essays
77	1RV22ME076	NISHANTH D DEVANGA	nishanthdd.me22@rvce.edu.in	Debate	Technical Magazine
78	1RV22ME077	PARAM KOTTURSHETTAR	paramkotturs.me22@rvce.edu.in	Pick and speak	Essays
79	1RV22ME078	PRAKHAR GUPTA	prakhargupta.me22@rvce.edu.in	Travel Vlog	Essay writing
80	1RV22ME079	PRAKRUTI K	prakrutik.me22@rvce.edu.in	Travel Vlog	Essay writing
81	1RV22ME080	PRANAV CHANDRASHEKHAR DI	pranavcd.me22@rvce.edu.in	Pick and Speak	ESSAY
82	1RV22ME081	PREETHAM N	preethamn.me22@rvce.edu.in	videos on grammer topic	crossword puzzles
83	1RV22ME082	PRIYADARSHINI H M	priyadarshinihm.me22@rvce.edu.in	Pick and Speak	ESSAY
84	1RV22ME083	R SWARUP	rswarup.me22@rvce.edu.in	Travel Vlog	Essay writing
85	1RV22ME084	R YASHWANTH	ryashwanth.me22@rvce.edu.in	Travel Vlog	Essay writing
86	1RV22ME085	RAHUL HEMDEV	rahulhemdev.me22@rvce.edu.in	Debate	Technical Magazine
87	1RV22ME086	RAJ ARYAN SINGH	rajaryansingh.me22@rvce.edu.in	Pick and Speak	ESSAY
88	1RV22ME087	RAJESHWARI PATIL	rajeshwarip.me22@rvce.edu.in	Play/Drama	Crossword Puzzles

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89	1RV22ME088	REBECCA SARAH STALIN	rebeccasstalin.me22@rvce.edu.in	Travel Vlog	Essay writing
90	1RV22ME089	RIDHIMA GUPTA	ridhimagupta.me22@rvce.edu.in	Pick and Speak	ESSAY
91	1RV22ME090	RITHVIK RAJASHEKARAN	rithvikr.me22@rvce.edu.in	Play/Drama	Crossword Puzzles
92	1RV22ME091	ROHIT S KUNTOJI	rohitskuntoji.me22@rvce.edu.in	Videos on grammar topic	Crossword Puzzles
93	1RV22ME092	RUCHITHA JAGADISH REDDY	ruchithajreddy.me22@rvce.edu.in	TRAVEL VLOG	ESSAY
94	1RV22ME093	RUTHVIK SETTY	ruthviksetty.me22@rvce.edu.in	Travel vlog	essay writing
95	1RV22ME094	S RAGURAAM	sraguraam.me22@rvce.edu.in	Pick and speak	Technical Magazine
96	1RV22ME095	SACHIN	sachin.me22@rvce.edu.in	Videos on grammar	Crossword Puzzles
97	1RV22ME096	SAGAR B SHIRADON	sagarbshiradon.me22@rvce.edu.in	Videos on grammar topic	Crossword Puzzles
98	1RV22ME097	SAI SHYAM SRIDHARAN	saishyams.me22@rvce.edu.in	Debate	Crossword Puzzles
99	1RV22ME098	SAI VENKAT B	saivenkatb.me22@rvce.edu.in	Videos on grammar topic	Crossword Puzzles
100	1RV22ME099	SAMIRAN SARKAR	samiransarkar.me22@rvce.edu.in	Videos on English grammar	Crossword Puzzles
101	1RV22ME100	SATURDEKAR ALISHA MANGES	salishamangesh.me22@rvce.edu.in	TRAVEL VLOG	POETRY
102	1RV22ME101	SHAKTHY NAGA A P	shakthynagaap.me22@rvce.edu.in	Videos on grammar topic	Crossword Puzzles
103	1RV22ME102	SHANTHALING AVINASH HIREM	savinashh.me22@rvce.edu.in	Stand up comedy	Poetry writing
104	1RV22ME103	SHASHANK J	shashankj.me22@rvce.edu.in	Pick and speak	ESSAY
105	1RV22ME104	SHASHANKA H A	shashankaha.me22@rvce.edu.in	Pick and Speak	ESSAY
106	1RV22ME105	SHASWATA SARKAR	shaswatasarkar.me22@rvce.edu.in	TRAVEL VLOG	Crossword Puzzles
107	1RV22ME106	SHREYA LAVANYA	shreyalavanya.me22@rvce.edu.in	Videos on grammar topics	Essay
108	1RV22ME107	SHRIJAN BUCHASIA	shrijanbuchasia.me22@rvce.edu.in	Pick and Speak	Crossword Puzzles
109	1RV22ME108	SIDDHARTH V	siddharthv.me22@rvce.edu.in	TRAVEL VLOG	Crossword Puzzles
110	1RV22ME109	SIDDHATH VAISAK	siddhathvaisak.me22@rvce.edu.in	Pick and Speak	ESSAY
111	1RV22ME110	SUDEEP N R	sudeepnr.me22@rvce.edu.in	TRAVEL VLOG	Crossword Puzzles
112	1RV22ME111	SUFIYAN KHAN	sufiyankhan.me22@rvce.edu.in	TRAVEL VLOG	Crossword Puzzles
113	1RV22ME112	SUMANTH S	sumanths.me22@rvce.edu.in	TRAVEL VLOG	ESSAY
114	1RV22ME113	SUMIT SAURAV	sumitsaurav.me22@rvce.edu.in	Videos on English grammar	Crossword Puzzles
115	1RV22ME114	TANISH SUDHIR SHETTY	tanishsshetty.me22@rvce.edu.in	Pick and Speak	Crossword Puzzles
116	1RV22ME115	TEJAS R	tejasr.me22@rvce.edu.in	Essay	Debate
117	1RV22ME116	TRISHAR S	trishars.me22@rvce.edu.in	TRAVEL VLOG	Crossword Puzzles
118	1RV22ME117	U P MADHAVAN	upmadhavan.me22@rvce.edu.in	Pick and Speak	Blog
119	1RV22ME118	V BALASUBRAMANIAN	vbsubramanian.me22@rvce.edu.in	pick and speak	poetry
120	1RV22ME119	VAIBHAV CHANDRAMOHAN PO	vaibhavcpoojari.me22@rvce.edu.in	Videos on grammar topics	Essays
121	1RV22ME120	VAISHNAVREDDY BANDE	vaishnavreddyb.me22@rvce.edu.in	Videos on grammar topics	Crossword puzzles
122	1RV22ME121	VARUN H K	varunhk.me22@rvce.edu.in	Pick and Speak	Blog
123	1RV22ME122	VIGASH S	vigashs.me22@rvce.edu.in	Pick and Speak	Crossword Puzzles
124	1RV22ME123	VIKAS B H	vikasbh.me22@rvce.edu.in	TRAVEL VLOG	Crossword Puzzles

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125	1RV22ME124	VIKRANT PARULEKAR	vikrantp.me22@rvce.edu.in	Pick and Speak	Essay writing
126	1RV22ME125	VRUNDA RAGHAVENDRA MATH	vrundarmathad.me22@rvce.edu.in	TRAVEL VLOG	ESSAY
127	1RV22ME126	YASHAS BHARAMAGOUDAR	yashasb.me22@rvce.edu.in	pick and speak	poetry
128	1RV22ME127	YOGESH KUMARA	yogeshkumara.me22@rvce.edu.in	Pick and Speak	Poetry Writing

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: ELECTRICAL & ELECTRONICS ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
SL NO	USN	NAME	STUDENT RVCE EMAIL ID	Activity chosen under Oral Communication	Activity chosen under Written Communication
1	1RV22EE001	A CHALUKYA	achalukya.ee22@rvce.edu.in	Travel Vlog	Crossword puzzle
2	1RV22EE002	A HANUMAN KOWSHIK REDDY	ahkowshikreddy.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
3	1RV22EE003	ABHISHEK HAKKE	abhishekhakke.ee22@rvce.edu.in	Travel Vlog	Essay
4	1RV22EE004	ADITHYA SHETTY K	adithyashettyk.ee22@rvce.edu.in	Travel Vlog	Essay
5	1RV22EE005	ADITYA VIJAYVARGIYA	adityav.ee22@rvce.edu.in	Vedios on Grammer Topics	Crossword puzzle
6	1RV22EE006	ANISH RAVI SONAR	anishravisonar.ee22@rvce.edu.in	Travel Vlog	Essay
7	1RV22EE007	ARNAV JAIN	arnavjain.ee22@rvce.edu.in	Travel Vlog	Essay
8	1RV22EE008	ARYAN	aryan.ee22@rvce.edu.in	Pick and speak	Essay
9	1RV22EE009	ARYAN VIJAYVARGIYA	aryanv.ee22@rvce.edu.in	Travel Vlog	Essay
10	1RV22EE010	ASHMIT SINGH	ashmitsingh.ee22@rvce.edu.in	Vedios on Grammer Topics	Crossword puzzle
11	1RV22EE011	AYUSH MATHUR	ayushmathur.ee22@rvce.edu.in	Travel Vlog	Essay
12	1RV22EE012	BANDAVVA HANAMANT VYAPAR	bandavvahv.ee22@rvce.edu.in	Travel Vlog	poem writing
13	1RV22EE013	DHANUSH GANAPATHY A A	dhanushga.ee22@rvce.edu.in	pick and speak	Essay
14	1RV22EE014	DIPTANSHU SINGH	diptanshusingh.ee22@rvce.edu.in	Debate	Essay
15	1RV22EE015	G VENKAT SHREYAS	gvenkatshreyas.ee22@rvce.edu.in	Travel Vlog	Essay
16	1RV22EE016	GAURAV RAJ	gauravraj.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
17	1RV22EE017	HITHESH M P	hitheshmp.ee22@rvce.edu.in	Travel Vlog	Essay
18	1RV22EE018	IMAD RIYAZ	imadriyaz.ee22@rvce.edu.in	Travel Vlog	Essay
19	1RV22EE019	ISHAN VARUN	ishanvarun.ee22@rvce.edu.in	Travel Vlog	Poem writing
20	1RV22EE020	JATIN SHARMA	jatinsharma.ee22@rvce.edu.in	Travel Vlog	Essay
21	1RV22EE021	KAMATH ABHAY SUNIL	kabhaysunil.ee22@rvce.edu.in	Travel Vlog	Essay
22	1RV22EE022	KUMARI ANJALI	kumarianjali.ee22@rvce.edu.in	Vedios on Grammer Topics	Technical Magzine
23	1RV22EE023	MOHAMMED HUSSAIN KHAN	mdhussainkhan.ee22@rvce.edu.in	Travel vlog	Blog writing
24	1RV22EE024	NIKHIL KUMAR	nikhilkumar.ee22@rvce.edu.in	pick and speak	Essay
25	1RV22EE025	OMKUMAR	omkumar.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
26	1RV22EE026	POTAM MADHAVI	potammadhavi.ee22@rvce.edu.in	Debate	Essay
27	1RV22EE027	PRAJWAL K S	prajwalks.ee22@rvce.edu.in	Pick and speak	Essay
28	1RV22EE028	PRANAV SRIDHAR	pranavsridhar.ee22@rvce.edu.in	play	Essay
29	1RV22EE029	PRATHAM KUMAR	prathamkumar.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay

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30	1RV22EE030	PRATIBHA VIJAYAKUMAR WALI	pratibhavkw.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
31	1RV22EE031	PRATYUSH PATEL	pratyushpatel.ee22@rvce.edu.in	-	-
32	1RV22EE032	PREETISH MISHRA	preetishmishra.ee22@rvce.edu.in	debate	Crossword puzzle
33	1RV22EE033	DESHMUKH PRITHVIRAJ JAYSI	dprithvirajj.ee22@rvce.edu.in	Travel Vlog	Essay
34	1RV22EE034	RAKSHITHA M	rakshitham.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
35	1RV22EE035	RAMCHANDRA PANCHAL	ramchandrap.ee22@rvce.edu.in	Travel Vlog	Essay
36	1RV22EE036	RANJITH KUMAR RAMOJI	ranjithkramoji.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
37	1RV22EE037	RESHMA	reshma.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
38	1RV22EE038	RISHI GOWDA A	rishigowdaa.ee22@rvce.edu.in	Travel Vlog	cross word puzzle
39	1RV22EE039	ROUSHAN KUMAR	roushankumar.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
40	1RV22EE040	RUTWIKAA BASANI	rutwikaabasani.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
41	1RV22EE041	SAGAR KIRAN	sagarkiran.ee22@rvce.edu.in	Pick and speak	Crossword puzzle
42	1RV22EE042	SAMEERAHMED YALAWARKAR	sameerahmedy.ee22@rvce.edu.in	Travel Vlog	Essay
43	1RV22EE043	SANJANA KUMARI SINGH	sanjanakumaris.ee22@rvce.edu.in	Vedios on Grammer Topics	Crossword puzzle
44	1RV22EE044	SANJAY BANJARA	sanjaybanjara.ee22@rvce.edu.in	Travel vlog	poetry writing
45	1RV22EE045	SATYAM KUMAR	satyamkumar.ee22@rvce.edu.in	Debate	Essay
46	1RV22EE046	SHIVAKUMAR GADEDA	shivakumarg.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
47	1RV22EE047	SHREYAS U A	shreyasua.ee22@rvce.edu.in	Travel Vlog	Essay
48	1RV22EE048	SHREYASH PATHAK	shreyashpathak.ee22@rvce.edu.in	Travel Vlog	Crossword puzzle
49	1RV22EE049	SIDDHI BAID	siddhibaid.ee22@rvce.edu.in	Vedios on Grammer Topics	Crossword puzzle
50	1RV22EE050	SIRI M	sirim.ee22@rvce.edu.in	Travel Vlog	Essay
51	1RV22EE051	SMRITI V SOOLEBHAVI	smritivs.ee22@rvce.edu.in	Vedios on Grammer Topics	Poetry
52	1RV22EE052	SOHAN KUMAR S K	sohankumarsk.ee22@rvce.edu.in	Travel Vlog	Crossword puzzle
53	1RV22EE053	SOUMODEEP NANDI	soumodeepnandi.ee22@rvce.edu.in	Travel Vlog	Essays
54	1RV22EE054	SUDARSHAN M ULLEGADDI	sudarshanmu.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
55	1RV22EE055	SUMANTH K	sumanthk.ee22@rvce.edu.in	Pick and speak	Crossword puzzle
56	1RV22EE056	SUNAY B S	sunaybs.ee22@rvce.edu.in	play	Essay
57	1RV22EE057	TARUN H S	tarunhs.ee22@rvce.edu.in	Travel Vlog	Essay
58	1RV22EE058	VAIBHAV CHANNABASAVARAJ I	vaibhavckannur.ee22@rvce.edu.in	Travel Vlog	Essay
59	1RV22EE059	VAIBHAV M B	vaibhavmb.ee22@rvce.edu.in	Travel Vlog	Crossword puzzle
60	1RV22EE060	VANSH VIKAS JAIN	vanshvikasjain.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
61	1RV22EE061	VIBIN SUKUMAR	vibinsukumar.ee22@rvce.edu.in	Travel Vlog	Crossword puzzle
62	1RV22EE062	VIKAS N	vikasn.ee22@rvce.edu.in	Travel Vlog	Essay
63	1RV22EE063	YASH ARYAN	yasharyan.ee22@rvce.edu.in	Vedios on Grammer Topics	Essay
64	1RV22EE064	YOGITH REDDY M	yogithreddym.ee22@rvce.edu.in	Travel Vlog	Essay
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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: ELECTRONICS & COMMUNICATION ENGG., PROGRAM FOR THE YEAR 2022 - 2023

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189	1RV22EC189	YADUNANDAN V	yadunandanv.ec22@rvce.edu.in	debate	crossword puzzles
190	1RV22EC190	YASH KUMAR SINGH	yashkumarsingh.ec22@rvce.edu.in	Debate	Poetry writing
191	1RV22EC191	YASHASVI JANA	yashasvijana.ec22@rvce.edu.in	Debate	Essays

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: INDUSTRIAL ENGG., & MGMT., PROGRAM

SL NO	USN	NAME	STUDENT RVCE EMAIL ID		
1	1RV21IM006	AARSH BAJAJ	aarshbajaj.im21@rvce.edu.in	Travel Vlog	Essays
2	1RV22IM001	A S NIHAL	asnihal.im22@rvce.edu.in	Videos on grammar topics	Essays
3	1RV22IM002	AADYOTYA PANDEY	aadyotyapandey.im22@rvce.edu.in	Videos on grammar topics	Essays
4	1RV22IM003	ABHISHEK S	abhisheks.im@22rvce.edu.in	Pick and Speak	Blog
5	1RV22IM004	ADIL SHANI	adilshani.im22@rvce.edu.in	Debate	Blog
6	1RV22IM005	ADIT NAHAR	aditnahar.im22@rvce.edu.in	Debate	crossword puzzles
7	1RV22IM006	ADMINI G	adminig.im22@rvce.edu.in	Play	crossword puzzles
8	1RV22IM007	AMOGH RAGHAVENDRA NAIK	amoghrnaik.im22@rvce.edu.in	Travel vlog	Blog
9	1RV22IM008	AMRUT S TILAK RAJ	amrutstraj.im22@rvce.edu.in	Videos on grammar topics	Essays
10	1RV22IM009	ANANT BHALE	anantbhale.im22@rvce.edu.in	Videos on grammar topics	Blog
11	1RV22IM010	ANVITHA R	anvithar.im22@rvce.edu.in	Videos on grammar topics	Essays
12	1RV22IM011	ARYAN AGARWAL	aryanagarwal.im22@rvce.edu.in	Debate	Pick and speak
13	1RV22IM012	AYUSH JHA	ayushjha.im22@rvce.edu.in	Debate	Essays
14	1RV22IM013	BELLIAPPA CODANDA DEVIAH	belliappacd.im22@rvce.edu.in	Videos on grammar topics	Essays
15	1RV22IM014	BHOOMIKA GOPAL H	bhoomikagopalh.im22@rvce.edu.in	Videos on grammar topics	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023

16	1RV22IM015	CHINMAYA NADIG	chinmayanadig.im22@rvce.edu.in	Debate	Blog
17	1RV22IM016	CHIRANTH P	chiranthp.im22@rvce.edu.in	Blog	Essays
18	1RV22IM017	DAIVIK R ARADHYA	daivikraradhya.im22@rvce.edu.in	Debate	Essays
19	1RV22IM018	DEVADEEKSHITH G S	devadeekshithgs.im22@rvce.edu.in	Debate	Pick and speak
20	1RV22IM019	DISHA AGARWAL	dishaagarwal.im22@rvce.edu.in	Debate	Essays
21	1RV22IM020	DIVIJ JOSHI	divijjoshi.im22@rvce.edu.in	Debate	Essays
22	1RV22IM021	ELVIS VINCENT	elvisvincent.im22@rvce.edu.in	Debate	crossword puzzles
23	1RV22IM022	ESHWAR R	eshwarr.im22@rvce.edu.in	Videos on grammar topics	Essays
24	1RV22IM023	GAYATHRI G R	gayathrigr.im22@rvce.edu.in	Debate	Essay
25	1RV22IM024	HARSHIL CHHABRA	harshilchhabra.im22@rvce.edu.in	Debate	Essay
26	1RV22IM025	HARSHUL MOHTA	harshulmohta.im22@rvce.edu.in	Videos on grammar topics	Essays
27	1RV22IM026	HEMAVATHI A	hemavathia.im22@rvce.edu.in	Drama	Essays
28	1RV22IM027	K S SREEHARI	kssreehari.im22@rvce.edu.in	Videos on grammar topics	Essays
29	1RV22IM028	KARUNESH KUMAR	karuneshkumar.im22@rvce.edu.in	Debate	Essays
30	1RV22IM029	LAVANYA L B	lavanyalb.im22@rvce.edu.in	Pick and speak	Essays
31	1RV22IM030	MALAVIKA S BABU	malavikasbabu.im22@rvce.edu.in	Pick and speak	Essay
32	1RV22IM031	MANISH ASHOK CHAVAN	manishashokc.im22@rvce.edu.in	Videos on grammar topics	crossword puzzles
33	1RV22IM032	MIHIKA SHIRISH KERUR	mshirishkerur.im22@rvce.edu.in	Debate	Essays
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35	1RV22IM034	MUSKAN SINGH	muskansingh.im22@rvce.edu.in	Videos on grammar topics	Essays
36	1RV22IM035	N JASHWANTH REDDY	njashwanthreddy.im22@rvce.edu.in	Debate	Essays
37	1RV22IM036	NIKHITHA SUNIL ALOOR	nikhithasunila.im22@rvce.edu.in	debate	essay
38	1RV22IM037	NINGRAJU M	ningrajum.im22@rvce.edu.in	Debate	Essays
39	1RV22IM038	NISHANT KUMAR	nishantkumar.im22@rvce.edu.in	Debate	Traveol vlog
40	1RV22IM039	PRANAV RAMAKRISHNAN	pranavr.im22@rvce.edu.in	Eassays	crossword puzzles
41	1RV22IM040	RAHUL ARUN MANE	rahularunmane.im22@rvce.edu.in	Videos on grammar topics	Essays
42	1RV22IM041	RAVI NATH TIWARY	ravinathtiwary.im22@rvce.edu.in	Videos on grammar topics	Blog
43	1RV22IM042	RISHIKA SHRESHTHA	rishikas.im22@rvce.edu.in	Videos on grammar topics	Essays
44	1RV22IM043	ROHAN RAGHAVENDRAN	rohanr.im22@rvce.edu.in	Debate	Essays
45	1RV22IM044	SAILESH KUMAR M	saileshkumarm.im22@rvce.edu.in	Travel Vlog	Essays
46	1RV22IM045	SATVIK PALIWAL	satvikpaliwal.im22@rvce.edu.in	Debate	Poetry writing
47	1RV22IM046	SAURABH SINGH SANGER	saurabhss.im22@rvce.edu.in	Videos on grammar topics	Essays
48	1RV22IM047	SHARANAGOUDA	sharanagouda.im22@rvce.edu.in	Travel Vlog	Essays
49	1RV22IM048	SHAURYA KESARWANI	shauryak.im22@rvce.edu.in	Debate	Essays
50	1RV22IM049	SHIKSHA PANDEY	shikshapandey.im22@rvce.edu.in	Videos on grammar topics	Essays
51	1RV22IM050	SHRAVNI UTTAMKUMAR KINAN	shravniuk.im22@rvce.edu.in	Videos on grammar topics	Poetry writing

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55	1RV22IM054	SRIRAM V HEGDE	sriramvhegde.im22@rvce.edu.in	Debate	Essays
56	1RV22IM055	SUBHAN HASANASAB INAMADA	subhanhinamdar.im22@rvce.edu.in	Travel Vlog	Essays
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58	1RV22IM057	SYED NADEEM AHAMED C	syednadeema.im22@rvce.edu.in	Debate	Blog
59	1RV22IM058	T ANKSHITH SHETTY	tankshiths.im22@rvce.edu.in	Debate	crossword puzzles
60	1RV22IM059	TANISHA KUMARI	tanishakumari.im22@rvce.edu.in	Videos on grammar topics	Essays
61	1RV22IM060	TEJAS PATHAK	tejaspathak.im22@rvce.edu.in	Debate	Blog
62	1RV22IM061	TRISHA M	trisham.im22@rvce.edu.in	Videos on grammar topics	crossword puzzles
63	1RV22IM062	VACHANA P SHANBOGHA	vachanaps.im22@rvce.edu.in	Videos on grammar topics	Poetry writing
64	1RV22IM063	VIKRAM DAMODAR SHANBHAG	vikramdamodars.im22@rvce.edu.in	Videos on grammar topics	Essays

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3	1RV22EI003	ADITYA SRINIVAS	adityasrinivas.ei22@rvce.edu.in	play/drama	crossword puzzles
4	1RV22EI004	AKSHARA SRIDHARA	aksharas.ei22@rvce.edu.in	videos on grammar topics	essays
5	1RV22EI005	ANJO JOSEPH	anjojoseph.ei22@rvce.edu.in	Videos on grammar topics	crossword puzzles
6	1RV22EI006	ASHRAY A PAI	ashrayapai.ei22@rvce.edu.in	Travel vlog	Essays
7	1RV22EI007	AVIKSHIT B	avikshitb.ei22@rvce.edu.in	play/drama	crossword puzzles
8	1RV22EI008	AYUSH BHARDWAJ	ayushbhardwaj.ei22@rvce.edu.in	Videos on grammer topics	Essays
9	1RV22EI009	AYUSH YADAV	ayushyadav.ei22@rvce.edu.in	pick and speak	poetry writing
10	1RV22EI010	BAFNA BHAVIK DILIP	bbhavikdilip.ei22@rvce.edu.in	Debate	Technical Magazine
11	1RV22EI011	BALASAI ANISH PONNALURI	balasaianishp.ei22@rvce.edu.in	play/drama	crossword puzzles
12	1RV22EI012	BALESH SIDARAY TALIVADAKAI	baleshst.ei22@rvce.edu.in	Debate	Essays
13	1RV22EI013	CHAHETI JHA	chahetijha.ei22@rvce.edu.in	videos on grammar topics	crossword puzzles
14	1RV22EI014	CHANDANA	chandana.ei22@rvce.edu.in	Videos on grammar topics	Blog
15	1RV22EI015	CHIRAG KUMAR JAISWAL	chiragkumarj.ei22@rvce.edu.in	videos on grammar topics	Blog
16	1RV22EI016	CHIRAG MODALAVALASA	chiragm.ei22@rvce.edu.in	play/drama	crossword puzzles
17	1RV22EI017	CHIRAG V	chiragv.ei22@rvce.edu.in	Debate	crossword puzzles
18	1RV22EI018	DEVANSH SRIVASTAVA	devanshs.ei22@rvce.edu.in	videos on grammar topics	Essays
19	1RV22EI019	DHANUSH K M	dhanushkm.ei22@rvce.edu.in	Videos on grammar topics	crossword puzzles
20	1RV22EI020	DHRUV ASHISH BAGADE	dhruvashishb.ei22@rvce.edu.in	videos on grammar topics	essays

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21	1RV22EI021	DIVYA RAO HARISH	divyaraoharish.ei22@rvce.edu.in	play/drama	essays
22	1RV22EI022	GNANIKA T J R	gnanikatjr.ei22@rvce.edu.in	Videos on grammar topic	Essays
23	1RV22EI023	GURURAJ B MAHANTSHETTAR	gururajbm.ei22@rvce.edu.in	play/drama	Essays
24	1RV22EI024	HARINI G IYAR	harinigiyar.ei22@rvce.edu.in	Debate	Technical magazine
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26	1RV22EI026	JAYANDH SAJEEV	jayandhsajeev.ei22@rvce.edu.in	Pick and Speak	Poetry writing
27	1RV22EI027	KUSHAGRA CHATURVEDI	kushagrac.ei22@rvce.edu.in	videos on grammar topics	essays
28	1RV22EI028	KUSHAL MANDHYAN	kushalmandhyan.ei22@rvce.edu.in	Videos on grammar topics	Essays
29	1RV22EI029	MAHESH	mahesh.ei22@rvce.edu.in	VIDEOS ON GRAMMAR TOPIC	ESSAYS
30	1RV22EI030	MANJUNATH M	manjunathm.ei22@rvce.edu.in	play/drama	Essays
31	1RV22EI031	MANOJ KRISHNAMURTHY SUNA	manojkrishnams.ei22@rvce.edu.in	videos on grammar topics	Essays
32	1RV22EI032	MEDHA K S PURANIK	medhakspuranik.ei22@rvce.edu.in	videos on grammar topics	blog
33	1RV22EI033	NISHANTH CHANDRASHEKAR	nishanthc.ei22@rvce.edu.in	Debate	Essays
34	1RV22EI034	NITIN MAMMEN JOY	nitinmammenjoy.ei22@rvce.edu.in	Videos on grammar topics	Essays
35	1RV22EI035	PEDADA TARUN	pedadatarun.ei22@rvce.edu.in	Videos on Grammar topics	Essays
36	1RV22EI036	PRAHLADA P UDUPA	prahladapudupa.ei22@rvce.edu.in	VIDEOS ON GRAMMAR TOPIC	ESSAYS
37	1RV22EI037	PRAJWAL HIREMATH	prajwalhiremat.ei22@rvce.edu.in	Videos on grammar topics	Crossword puzzles
38	1RV22EI038	PRANAV RAO	pranavrao.ei22@rvce.edu.in	Pick and Speak	Poetry Writing
39	1RV22EI039	RAHUL CHATTERJEE	rahulc.ei22@rvce.edu.in	Videos on grammar topics	Crossword Puzzles
40	1RV22EI040	RASHMITHA RANI B N	rashmitharanib.ei22@rvce.edu.in	Videos on Grammar topics	crossword puzzles
41	1RV22EI041	RUJULA SAVOY S P	rujulasavoysp.ei22@rvce.edu.in	Videos on grammar topics	Essays
42	1RV22EI042	S NITHIN	snithin.ei22@rvce.edu.in	Videos on grammar topics	crossword puzzles
43	1RV22EI043	S VIGHNAJIT	svighnajit.ei22@rvce.edu.in	READMISSION	READMISSION
44	1RV22EI044	SAMARTH KULKARNI	samarthk.ei22@rvce.edu.in	Videos on grammar topics	Crossword puzzles
45	1RV22EI045	SANDEEP N UTTARKAR	sandeepnu.ei22@rvce.edu.in	Pick and speak	Blog
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47	1RV22EI047	SATVIK CHATURVEDI	satvikc.ei22@rvce.edu.in	Debate	Poetry writing
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49	1RV22EI049	SHASHIDHAR A	shashidhara.ei22@rvce.edu.in	play/drama	essays
50	1RV22EI050	SHIKHAR VERMA	shikharverma.ei22@rvce.edu.in	pick and speak	Essays
51	1RV22EI051	SHREESH N	shreeshn.ei22@rvce.edu.in	play/drama	crossword puzzles
52	1RV22EI052	SHREESHA KUMARA K	shreeshakk.ei22@rvce.edu.in	Pick and speak	Essays
53	1RV22EI053	SHREYA KULKARNI	shreyakulkarni.ei22@rvce.edu.in	Pick and speak	Essays
54	1RV22EI054	SHUBHAM RAJENDRA KALGHA	shubhamrk.ei22@rvce.edu.in	pick and speak	essays
55	1RV22EI055	SPOORTI PANCHAKSHARI CHAR	spoortipc.ei22@rvce.edu.in	Pick and Speak	Essays
56	1RV22EI056	SPRIHA DIBBI	sprihadibbi.ei22@rvce.edu.in	videos on grammar topics	essays

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60	1RV22EI060	VARUN S	varuns.ei22@rvce.edu.in	debate	essays
61	1RV22EI061	VINAYAK BHARDWAJ	vinayakb.ei22@rvce.edu.in	videos on Grammar topics	Essays
62	1RV22EI062	VINYAS K S	vinyasks.ei22@rvce.edu.in	Pick and speak	Essays
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5	1RV22CH005	ANIKET SRIVASTAVA	anikets.ch22@rvce.edu.in	grammer video	Crossword puzzles
6	1RV22CH006	ANIRUDH SHARMA	anirudhsharma.ch22@rvce.edu.in	debate	poetry writing
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14	1RV22CH014	HALLI ASHRITHA SHETTY	halliashrithas.ch22@rvce.edu.in	Debate	Poetry Writing
15	1RV22CH015	HARSHITHA GIRISH	harshithag.ch22@rvce.edu.in	Pick and speak	Essay
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17	1RV22CH017	KRITI MAHESHWARI	kritim.ch22@rvce.edu.in	Pick and speak	Essay
18	1RV22CH018	MEGHA SHIVANAND	meghashivanand.ch22@rvce.edu.in	Pick and speak	Essay
19	1RV22CH019	MOHAMMED MOHSIN HUSSAIN	mdmhussain.ch22@rvce.edu.in	Debate	Essay
20	1RV22CH020	MONTEIRO JOSHUA ALBERT	monteiroja.ch22@rvce.edu.in	Pick and speak	Essay
21	1RV22CH021	PAVAN BALACHANDRA TELAGAR	pavanbt.ch22@rvce.edu.in	Debate	Poetry writing
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23	1RV22CH023	PRATHIK BHAWANKAR	prathikb.ch22@rvce.edu.in	Pick and speak	Essay
24	1RV22CH024	RAJESHWARI	rajeshwari.ch22@rvce.edu.in	Travel vlog	Blog
25	1RV22CH025	JADHAVRAO RUTURAJ AJITRAO	jadhavraora.ch22@rvce.edu.in	pick and speak	Crossword
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28	1RV22CH028	SAKSHI GAURAV	sakshigaurav.ch22@rvce.edu.in	video on english grammer	Essay
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30	1RV22CH030	SHASHANKH PRABHU MUROOR	shashankhpm.ch22@rvce.edu.in	pick and speak	Crossword
31	1RV22CH031	SHINA BANERJEE	shinabanerjee.ch22@rvce.edu.in	Debate	Blog
32	1RV22CH032	SHOURYA ANAND	shouryaanand.ch22@rvce.edu.in	pick and speak	essay
33	1RV22CH033	SMITHA ROYALS G R	smitharoyalsgr.ch22@rvce.edu.in	videos on grammar	poetry
34	1RV22CH034	SOUGANDHIKA M	sougandhikam.ch22@rvce.edu.in	Travel vlog	Blog
35	1RV22CH035	SUDHANVA MYSORE SANKARSI	sudhanvams.ch22@rvce.edu.in	Pick and speak	Essay
36	1RV22CH036	TARUN RANJAN	tarunranjan.ch22@rvce.edu.in	Grammar video	Essay
37	1RV22CH037	TEJASHAVINI VENKAPPA AMAL	tejashaviniva.ch22@rvce.edu.in	Pick and speak	Essay
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39	1RV22CH039	UTKARSH NIJHAWAN	utkarshn.ch22@rvce.edu.in	Debate	Crossword
40	1RV22CH040	VEENA SADGUNA VASIMALLA	veenavass.ch22@rvce.edu.in	Pick and Speak	Essay
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12	1RV22CS011	ADITYA VERMA	adityaverma.cs22@rvce.edu.in	Video on grammar	Essays
13	1RV22CS012	ADVAITH A	advaitha.cs22@rvce.edu.in	Debate	Essays
14	1RV22CS013	AHANA PATIL	ahanapatil.cs22@rvce.edu.in	Video on grammar	Essays
15	1RV22CS014	AKASH M TAMBAKE	akashmtambake.cs22@rvce.edu.in	Video On Grammar	Poetry
16	1RV22CS015	AKSHAT	akshat.cs22@rvce.edu.in	Video on Grammar	Essay
17	1RV22CS016	AKSHAT D	akshatd.cs22@rvce.edu.in	Debate	Essay

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
18	1RV22CS017	AKSHATHA A	akshathaa.cs22@rvce.edu.in	Video on Grammar	Essay
19	1RV22CS018	AMITESH SRINIVAS	amiteshs.cs22@rvce.edu.in	Video on grammar	Essay
20	1RV22CS019	AMOL SAHU	amolsahu.cs22@rvce.edu.in	Video on grammer	Blog
21	1RV22CS020	ANANYA BHAT	ananyabhat.cs22@rvce.edu.in	Video on Grammar	Essay
22	1RV22CS021	ANANYA K P	ananyakp.cs22@rvce.edu.in	Video on grammar	Essay Writing
23	1RV22CS022	ANIRUDDHA N BAYARI	aniruddhanb.cs22@rvce.edu.in	Video on grammar	Essays
24	1RV22CS023	ANIRUDH S	anirudhs.cs22@rvce.edu.in	Video on grammar	Essays
25	1RV22CS024	ANKIT PATIL	ankitpatil.cs22@rvce.edu.in	Video on Grammer	Essay
26	1RV22CS025	ANSH SRIVASTAVA	anshsrivastava.cs22@rvce.edu.in	Video on grammar	Essay
27	1RV22CS026	APEKSHA S T	apekshast.cs22@rvce.edu.in	Video on grammar	Essay writing
28	1RV22CS027	ARAHANTH M	arahanthm.cs22@rvce.edu.in	Video on grammar	poetry
29	1RV22CS028	ARNAV ADITYA PANDEY	arnavapandey.cs22@rvce.edu.in		
30	1RV22CS029	ARYA HARIHARAN	aryahariharan.cs22@rvce.edu.in	Videos on Grammar	Essays
31	1RV22CS030	ARYA VINOD	aryavinod.cs22@rvce.edu.in	Videos on Grammar	Essays
32	1RV22CS031	ARYAN JHA	aryanjha.cs22@rvce.edu.in	Videos on Grammar	Essay Writing
33	1RV22CS032	ARYANN GUPTA	aryanngupta.cs22@rvce.edu.in	VIDEOS ON GRAMMAR	Essay Writting
34	1RV22CS033	ASHIMA	ashima.cs22@rvce.edu.in	pick and speak	Essay writing
35	1RV22CS034	AVIRAL SINGH	aviralsingh.cs22@rvce.edu.in	Videos on Grammar	Essay writing
36	1RV22CS035	AVNEESH SINGH	avneeshsingh.cs22@rvce.edu.in	Video on grammar	Essay writing
37	1RV22CS036	B H ABHISHA	bhabhisha.cs22@rvce.edu.in	Videos on Grammar	Essay writing
38	1RV22CS037	BHUMIKA	bhumika.cs22@rvce.edu.in	Videos on Grammar	Essay Writing
39	1RV22CS038	BHUMIKA K	bhumikak.cs22@rvce.edu.in	Video on grammer	Essay Writing
40	1RV22CS039	BOLLUPALLE SREE SAI JAYANT	bssjayanth.cs22@rvce.edu.in	Video on grammar	Essays
41	1RV22CS040	CHAKRESH KOTHA VENKATA SA	ckvenkatasai.cs22@rvce.edu.in	Video on grammar	Essay writing
42	1RV22CS041	CHANDANA S	chandanas.cs22@rvce.edu.in	Video on grammar	Essays
43	1RV22CS042	D S S MOHAN	dssmohan.cs22@rvce.edu.in	Video on grammer	Essay Writing
44	1RV22CS043	DADAM RISHIKESH REDDY	drishikeshreddy.cs22@rvce.edu.in	Videos on grammar	Essays
45	1RV22CS044	DARSHAN KASHYAP N	darshankn.cs22@rvce.edu.in	Videos on Grammar	Essays
46	1RV22CS045	DHANYATHA H	dhanyathah.cs22@rvce.edu.in	Videos on Grammar	Essays
47	1RV22CS046	DHRUV LORIYA	dhruvloriya.cs22@rvce.edu.in	Videos on Grammar	Essays
48	1RV22CS047	DIVYA VIJAY	divyavijay.cs22@rvce.edu.in	Pick and Speak	Poetry Writing
49	1RV22CS048	DIVYANSH AGARWAL	divyansha.cs22@rvce.edu.in	video on Grammar	essays
50	1RV22CS049	EISA JAMEEL	eisajameel.cs22@rvce.edu.in	Videos on Grammar	Essays
51	1RV22CS050	ENAMADI SANATH GNANA YASH	esgylakshmi.cs22@rvce.edu.in	Video on grammar	Essays
52	1RV22CS051	ESHAAN MATHUR	eshaanmathur.cs22@rvce.edu.in	Video on grammar	Essays
53	1RV22CS052	FAYAZ	fayaz.cs22@rvce.edu.in	Video on grammar	Essays

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54	1RV22CS053	G SHASHWATHA	gshashwatha.cs22@rvce.edu.in	Videos on Grammer	Essays
55	1RV22CS054	GAGANA M V	gaganamv.cs22@rvce.edu.in	Videos on grammar	Essay writing
56	1RV22CS055	GANESH N NAIK	ganeshnnaik.cs22@rvce.edu.in	Videos on Grammer	Essays
57	1RV22CS056	GANESH S V	ganeshsv.cs22@rvce.edu.in		
58	1RV22CS057	GAYATRI K	gayatrik.cs22@rvce.edu.in	Video on grammar	Crossword Puzzle
59	1RV22CS058	GOUTAMI SOODA	goutamisooda.cs22@rvce.edu.in	Video on Grammar	Essay
60	1RV22CS059	GOVINDA NAWALKISHOR BOOB	govindanb.cs22@rvce.edu.in	Videos on grammar	crossword puzzles
61	1RV22CS060	GURURAJ BASAVARAJ GHATIGI	gururajbg.cs22@rvce.edu.in	Videos on grammar	Essays
62	1RV22CS061	H R ANEESH TEJAS	hraneeshtejas.cs22@rvce.edu.in	Videos on grammar	Essays
63	1RV22CS062	H R SANKHYA	hsankhya.cs22@rvce.edu.in	Video on Grammar	crossword puzzle
64	1RV22CS063	HAMSAVENI R	hamsavenir.cs22@rvce.edu.in	Videos on grammar	Essays
65	1RV22CS064	HARITHA R	harithar.cs22@rvce.edu.in	Videos on grammar	poetry writing
66	1RV22CS065	HARSH PATERIYA	harshpateriya.cs22@rvce.edu.in	Videos on grammar	Essays
67	1RV22CS066	HARSHITH N KOTHARI	harshithnk.cs22@rvce.edu.in	Debate	Essays
68	1RV22CS067	HEMANTH GOWDA C	hemanthgowdac.cs22@rvce.edu.in	Videos on grammar	Essays
69	1RV22CS068	HEMANTH MEDAHAL	hemanthmedahal.cs22@rvce.edu.in	Videos on grammar	Poetry Writing
70	1RV22CS069	HIMASHREE N R	himashreenr.cs22@rvce.edu.in	Videos on grammar	Essays
71	1RV22CS070	HITESH S P	hiteshp.cs22@rvce.edu.in	Videos on grammar	Essays
72	1RV22CS071	HRUTHIK K K	hruthikkk.cs22@rvce.edu.in	Videos on grammar	Essays
73	1RV22CS072	ISHITA PODDAR	ishitapoddar.cs22@rvce.edu.in	Travel/Food Vlog	Crossword puzzle
74	1RV22CS073	JAGADEESHWARI V GOGGA	jagadeeshwarivg.cs22@rvce.edu.in	Videos on grammar	Essay
75	1RV22CS074	JAHNAVI RAI	jahnavirai.cs22@rvce.edu.in	video on grammar	essay
76	1RV22CS075	JEEVAN S	jeevans.cs22@rvce.edu.in	Video on Grammar	Essay
77	1RV22CS076	JERIN P ISAC	jerinpisac.cs22@rvce.edu.in	Video on grammar	Poetry writing
78	1RV22CS077	K PRAKRUTHI	kprakruthi.cs22@rvce.edu.in	Video on grammer	Essays
79	1RV22CS078	K SAHIT REDDY	ksahitreddy.cs22@rvce.edu.in	Videos on grammar	Essay
80	1RV22CS079	K SRIYA CHOUDARY	kschoudary.cs22@rvce.edu.in	Videos on grammar topic	Essay
81	1RV22CS080	KANDE VINAY KARTHIK	kandevkarthik.cs22@rvce.edu.in	Videos on grammar topic	Essay
82	1RV22CS081	KARTHIK PRAKASH	karthikprakash.cs22@rvce.edu.in	Pick and Speak	Essay
83	1RV22CS082	KAVYA GUPTA	kavyagupta.cs22@rvce.edu.in	Video on grammar	Essay
84	1RV22CS083	KHUSH LORIYA	khushloriya.cs22@rvce.edu.in	Video on grammar	Essay
85	1RV22CS084	KHUSHI GUPTA	khushigupta.cs22@rvce.edu.in	pick and speak	Essay
86	1RV22CS085	KINSHUK AGARWAL	kinshukagarwal.cs22@rvce.edu.in	Food vlog	Essay
87	1RV22CS086	KIRAN V	kiranv.cs22@rvce.edu.in	video on grammar topic	Essay
88	1RV22CS087	KISHAN KUMAR SD	kishankumarsd.cs22@rvce.edu.in	video on grammar topic	Essay
89	1RV22CS088	KISHOR PATIL	kishorpatil.cs22@rvce.edu.in	Video on grammar topic	Essay

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90	1RV22CS089	KRUPA P NADGIR	krupapnadgir.cs22@rvce.edu.in	Debate	Essay writing
91	1RV22CS090	KSHITHI R	kshithir.cs22@rvce.edu.in	Video on grammar	Essay
92	1RV22CS091	KUSHAGRA AWASTHI	kawasthi.cs22@rvce.edu.in	VIDEOS ON GRAMMAR	ESSAYS
93	1RV22CS092	KUSHAGRA JAIN	kushagrajain.cs22@rvce.edu.in	VIDEOS ON GRAMMAR	ESSAYS
94	1RV22CS093	KUSHAL R U	kushalru.cs22@rvce.edu.in	Video on grammar topic	Essay writing
95	1RV22CS094	LAHARI R	laharir.cs22@rvce.edu.in	Debate	Essay
96	1RV22CS095	LANKA VENKATA SAI ADITYA	lvsaditya.cs22@rvce.edu.in	Video on grammar topic	Essay writing
97	1RV22CS096	LANKA VENKATA SAI ALEKHYA	lvsalekhya.cs22@rvce.edu.in	video on grammar topic	Essay
98	1RV22CS097	LAVANYA M	lavanyam.cs22@rvce.edu.in	video on grammar topic	essay writing
99	1RV22CS098	LEKHANA A	lekhanaa.cs22@rvce.edu.in	Video on Grammar topic	Blog
100	1RV22CS099	M NITHYASHREE	mnithyashree.cs22@rvce.edu.in	Video on grammar topic	Essay writing
101	1RV22CS100	MADHUBALA M	madhubalam.cs22@rvce.edu.in	Video on Grammar topic	Essay writing
102	1RV22CS101	MAHESH B	maheshb.cs22@rvce.edu.in	Video on Grammar topic	Essay writing
103	1RV22CS102	MANAS AGGARWAL	manasaggarwal.cs22@rvce.edu.in	Videos on Grammar topics	Eassy Writing
104	1RV22CS103	MANAS SAKTHIVEL	manassakthivel.cs22@rvce.edu.in	Videos on Grammar topic	Essay Writing
105	1RV22CS104	MANASA D N	manasadn.cs22@rvce.edu.in	Video on grammar topic	Essay Writing
106	1RV22CS105	MANASA S	manasas.cs22@rvce.edu.in	video on grammar topic	Essay Writing
107	1RV22CS106	MANASWINI SIMHADRI KAVALI	manaswinisk.cs22@rvce.edu.in	Video on grammar topic	Poetry writing
108	1RV22CS107	MANDAVA SAI ANIRUDH	msanirudh.cs22@rvce.edu.in	video on grammer topic	Essay writing
109	1RV22CS108	MANOHAR	manohar.cs22@rvce.edu.in	video on grammer topic	Essay writing
110	1RV22CS109	MANOJ KUMAR	manojkumar.cs22@rvce.edu.in	videos on grammer topic	Essay Writing
111	1RV22CS110	MANOJ KUMAR M	manojkumarm.cs22@rvce.edu.in	videos on grammer topic	Essay writing
112	1RV22CS111	MANVITH L B	manvithlb.cs22@rvce.edu.in	Debate	Essay
113	1RV22CS112	MANYA CHADAGA	manyachadaga.cs22@rvce.edu.in	Video on Grammar Topic	Crossword Puzzle
114	1RV22CS113	MARALI SHREYA SANTOSH	mssantosh.cs22@rvce.edu.in	video on grammar topic	Essay
115	1RV22CS114	MEHUL MAHESHWARI	mmaheshwari.cs22@rvce.edu.in	Video on grammer topic	Essay
116	1RV22CS115	MITESH MURTHY	miteshmurthy.cs22@rvce.edu.in	video on grammar topic	essay writing
117	1RV22CS116	MOHAMMAD MEEZAN	mohammadmeezan.cs22@rvce.edu.in	Video on grammar topic	Essay writing
118	1RV22CS117	MOHAMMED ILHAM	mohammedilham.cs22@rvce.edu.in	video on grammar topic	essay writing
119	1RV22CS118	MOHAMMED MEHRAJ PASHA	mdmehrajpasha.cs22@rvce.edu.in	Videos on Grammar topic	Essay Writing
120	1RV22CS119	MOHITH S	mohiths.cs22@rvce.edu.in	Debate	Essay Writing
121	1RV22CS120	MUKUND VIJAYVERGIYA	mukundv.cs22@rvce.edu.in	vlog	blog
122	1RV22CS121	MUSTQEEM SANNAKKI	mustqeems.cs22@rvce.edu.in	video on grammar topic	essay writing
123	1RV22CS122	N RAGAVENDERAN	nragavenderan.cs22@rvce.edu.in	Video on grammar topic	essay writing
124	1RV22CS123	N SASIDAR	nsasidar.cs22@rvce.edu.in	video on grammar topic	essay
125	1RV22CS124	NAGENDRA SAKETH KASHYAP	nagendrask.cs22@rvce.edu.in	Video on Grammar topic	Essay Writing

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126	1RV22CS125	NARAHARISETTYMOHAN SAI	nmohansai.cs22@rvce.edu.in	Video on Grammar topic	Essay Writing
127	1RV22CS126	NAYANA PRAKASH NAIK	nayanaprakashn.cs22@rvce.edu.in	video on grammar topic	Essay Writing
128	1RV22CS127	NIHAR MANDAHAS	niharmandahas.cs22@rvce.edu.in	Debate	Essay Writing
129	1RV22CS128	NIKHIL VASU	nikhilvasu.cs22@rvce.edu.in	video on grammar topic	Essay Writing
130	1RV22CS129	NIKUNJ MITTAL	nikunjmittal.cs22@rvce.edu.in	Vlog	Blog
131	1RV22CS130	NINGARAJ P TOTAGI	ningarajpt.cs22@rvce.edu.in	Video on Grammar Topic	Essay Writing
132	1RV22CS131	NISHCHINT TIKU	nishchinttiku.cs22@rvce.edu.in	Video on grammar topic	essay writing
133	1RV22CS132	NITHIN GOWDA L	nithingowdal.cs22@rvce.edu.in	Video on grammar topic	essay writing
134	1RV22CS133	OM GUPTA	omgupta.cs22@rvce.edu.in	Video on grammar topic	essay writing
135	1RV22CS134	PALLAVI B G	pallavibg.cs22@rvce.edu.in	Video on grammar topic	Essay writing
136	1RV22CS135	PAVAN SHIVAKUMAR	pshivakumar.cs22@rvce.edu.in	Video on grammar topic	Essay writing
137	1RV22CS136	PAVANKUMAR R	pavankumarr.cs22@rvce.edu.in	Video on grammer topic	Essay Writing
138	1RV22CS137	PAVITHRA N	pavithran.cs22@rvce.edu.in	Video on grammar topic	Essay
139	1RV22CS138	POORNACHANDRA K S	poornachandras.cs22@rvce.edu.in	Debate	Blog
140	1RV22CS139	POSAM HARSHITHA	posamharshitha.cs22@rvce.edu.in	Video on grammar topic	Essay
141	1RV22CS140	PRAJWAL M	prajwalm.cs22@rvce.edu.in	Video on grammar topic	Essay
142	1RV22CS141	PRAJWAL M BIRADAR	prajwalmb.cs22@rvce.edu.in	Video on grammar topic	Essay
143	1RV22CS142	PRAMATH K P	pramathkp.cs22@rvce.edu.in	Standup comedy	Essay
144	1RV22CS143	PRANAV DARSHAN	pranavdarshan.cs22@rvce.edu.in	Pick and Speak	Essay
145	1RV22CS144	PRANAV NAIR V K	pranavnairvk.cs22@rvce.edu.in	Debate	Essay
146	1RV22CS145	PRASHANT RONAD	prashantronad.cs22@rvce.edu.in	video on grammar topic	essay
147	1RV22CS146	PRATHAM CHIB	prathamchib.cs22@rvce.edu.in	video on grammar topic	essay
148	1RV22CS147	PRATHEEK RAO M P	pratheekrmp.cs22@rvce.edu.in	Debate	Essay writing
149	1RV22CS148	PRATHIK R S	prathikrs.cs22@rvce.edu.in	Debate	Essay writing
150	1RV22CS149	PRAVEEN PRAKASH HEBBAL	praveenphebbal.cs22@rvce.edu.in	video on grammar topic	Essay writing
151	1RV22CS150	PREETHI C	preethic.cs22@rvce.edu.in	video on grammar	essay
152	1RV22CS151	PRINCE ANSHUMAAN	panshumaan.cs22@rvce.edu.in	video on grammar	essay
153	1RV22CS152	PRITHVI THYAGARAJ	prithvit.cs22@rvce.edu.in	video on grammar	essay
154	1RV22CS153	PRIYANSH RAJIV DHOTAR	priyanshrajivd.cs22@rvce.edu.in	videos on grammar	poetry writing
155	1RV22CS154	RAGHUVEER NARAYANAN RAJE	raghuveernr.cs22@rvce.edu.in	video on grammar	essay writing
156	1RV22CS155	RAHEEL JAWED	raheeljawed.cs22@rvce.edu.in	Video on grammar topic	Essay
157	1RV22CS156	RAKSHAN BAGEPALLY SATHISH	rbsathish.cs22@rvce.edu.in	Video on grammar topic	Essay
158	1RV22CS157	RAMACHANDRA MANJUNATH R	ramachandramr.cs22@rvce.edu.in	video on grammar topic	Essay writing
159	1RV22CS158	RANJANA PRABHUDAS	ranjanap.cs22@rvce.edu.in	video on grammar topic	poetry writing
160	1RV22CS159	RISHABH KUMAR LAL	rishabhkumarl.cs22@rvce.edu.in	Videos of grammar topics	Essays
161	1RV22CS160	RISHEEK S	risheeks.cs22@rvce.edu.in	debate	essay

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
162	1RV22CS161	RITWIK DUBEY	ritwikdubey.cs22@rvce.edu.in	pick and speak	essay
163	1RV22CS162	ROHAN J S	rohanjs.cs22@rvce.edu.in	Video on Grammar topic	Essay writing
164	1RV22CS163	ROHIT SURESH	rohitsuresh.cs22@rvce.edu.in	Video on grammar topic	Essay
165	1RV22CS164	ROHITH BIRADAR	rohithbiradar.cs22@rvce.edu.in	Video on grammar topic	Essay
166	1RV22CS165	RUCHITHA M	ruchitham.cs22@rvce.edu.in	Video on grammar topic	essay
167	1RV22CS166	S SAHANA	ssahana.cs22@rvce.edu.in	video on grammar	essay
168	1RV22CS167	SAARA UNNATHI R	saaraunnathir.cs22@rvce.edu.in	Video on Grammar Topic	essay
169	1RV22CS168	SACHIN ANNIGERI	sachinannigeri.cs22@rvce.edu.in	pick and speak	essay
170	1RV22CS169	SAHIL SANTOSH NAIK	sahilsnaik.cs22@rvce.edu.in	Video on grammar topic	Crossword puzzle
171	1RV22CS170	SAI ANKIT PANDA	saiankitpanda.cs22@rvce.edu.in	Pick and speak	Essay
172	1RV22CS171	SAI VARUN KONDA	saivarunkonda.cs22@rvce.edu.in	Video on Grammer topic	crossword
173	1RV22CS172	SAKSHAM KUMAR JINDAL	sakshamkjindal.cs22@rvce.edu.in	Video on Grammer topic	crossword
174	1RV22CS173	SAMARTH D GOTHE	samarthdgothe.cs22@rvce.edu.in	Video on Grammar topic	Essay
175	1RV22CS174	SAMARTH G	samarthg.cs22@rvce.edu.in	Video on grammar topic	crossword puzzle
176	1RV22CS175	SAMVIT SANAT GERSAPPA	samvitsanatg.cs22@rvce.edu.in	Video on grammar topic	Essay
177	1RV22CS176	SANIKA KAMATH	sanikakamath.cs22@rvce.edu.in	Video on grammar topic	Essay
178	1RV22CS177	SANJANA S	sanjanas.cs22@rvce.edu.in	Video on grammar topic	Essay
179	1RV22CS178	SANKALPA B R	sankalpabr.cs22@rvce.edu.in	Video on grammar topic	Poetry writing
180	1RV22CS179	SATHWIK CHANDRA	sathwikchandra.cs22@rvce.edu.in	Video on grammar topic	Essay
181	1RV22CS180	SEELA RISHI	seelarishi.cs22@rvce.edu.in	pick and speak	Essay
182	1RV22CS181	SHAIK KHADAR VALI	shaikkhadarv.cs22@rvce.edu.in	Video on grammar topic	Essay
183	1RV22CS182	SHAIL R PATEL	shailrpatel.cs22@rvce.edu.in	Video on grammar topic	Essay
184	1RV22CS183	SHASHANK SHENOY B	shashanksb.cs22@rvce.edu.in	Video on grammar topic	Essay
185	1RV22CS184	SHIVAKUMAR	shivakumar.cs22@rvce.edu.in	video on grammar topic	Essay
186	1RV22CS185	SHIVARAJ CHAWAN	shivarajchawan.cs22@rvce.edu.in	video on grammar topic	Essay
187	1RV22CS186	SHREEHARI G BHAT	shreeharigbhat.cs22@rvce.edu.in	video on Grammer topic	essay
188	1RV22CS187	SHREEJAY PANDEY	shreejaypandey.cs22@rvce.edu.in	video o on Grammar Topics	Essay
189	1RV22CS188	SHREERAM SHIVABASU BADAG	shreeramsb.cs22@rvce.edu.in	video on grammar top	Essay
190	1RV22CS189	SHREYA CHAKOTE	shreyachakote.cs22@rvce.edu.in	video on grammar topic	Essay
191	1RV22CS190	SHREYANSH SINGH	shreyanshsingh.cs22@rvce.edu.in	Video on Grammer Topics	Poetry
192	1RV22CS191	SHREYAS KRISHNASWAMY	shreyask.cs22@rvce.edu.in	Video on Grammar Topic	Essay
193	1RV22CS192	SHREYASHWINI R	shreyashwinir.cs22@rvce.edu.in	Video on Grammar topic	essay
194	1RV22CS193	SHRINIDHI I	shrinidhii.cs22@rvce.edu.in	Video on grammer topic	Essay
195	1RV22CS194	SHRINIWAS MAHESHWARI	shriniwasm.cs22@rvce.edu.in	PICK & SPEAK	Essay
196	1RV22CS195	SHRIVARSHA	shrivarsha.cs22@rvce.edu.in	Video on Grammar Topic	Essay
197	1RV22CS196	SHRUTI MINAKSHI SINHA	shrutims.cs22@rvce.edu.in	Video on Grammar Topic	Essay

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198	1RV22CS197	SIRI A BHAT	siriabhat.cs22@rvce.edu.in	Pick and speak	Essay
199	1RV22CS198	SIRI H	sirih.cs22@rvce.edu.in	Video on grammar topic	Essay
200	1RV22CS199	SKANDA P R	skandapr.cs22@rvce.edu.in	Travel Vlog	Poetry
201	1RV22CS200	SOHAN VARIER	sohanvarier.cs22@rvce.edu.in	Video on grammar topic	Crossword Puzzle
202	1RV22CS201	SRAVANI H	sravanih.cs22@rvce.edu.in	Video on grammar topic	Essay
203	1RV22CS202	SRAVYA D	sravyad.cs22@rvce.edu.in	Video on grammar topic	Blog
204	1RV22CS203	SRIRAM D S	sriramds.cs22@rvce.edu.in	Video on grammar topic	Essay
205	1RV22CS204	SRIVATSHA N	srivatshan.cs22@rvce.edu.in	Video on grammar topic	Essay
206	1RV22CS205	SRIVISHNU P N	srivishnupn.cs22@rvce.edu.in	debate	essay
207	1RV22CS206	SUDHANSHU SUMAN	sudhanshusuman.cs22@rvce.edu.in	Video on grammar topic	Essay Writing
208	1RV22CS207	SUHAS GOWDA L	suhasgowdal.cs22@rvce.edu.in	Video on grammar topic	Essay Writing
209	1RV22CS208	SUHAS PERI	suhasperi.cs22@rvce.edu.in	Video on grammar topic	Essay
210	1RV22CS209	SUHAS RAJ H R	suhasrajhr.cs22@rvce.edu.in	Travel Vlog	Poetry
211	1RV22CS210	SUNDARAKRISHNAN N	sundarakn.cs22@rvce.edu.in	Video on Grammar Topic	Essay
212	1RV22CS211	SURAJ CHANAVEERAGOUDRA	surajc.cs22@rvce.edu.in	Video on grammar topic	Essay Writing
213	1RV22CS212	SUYASH ALVA	suyashalva.cs22@rvce.edu.in	Video on grammar topic	Essay
214	1RV22CS213	SWASTI SHARMA	swastisharma.cs22@rvce.edu.in	Video on grammar topic	Essay writing
215	1RV22CS214	SYED FARHAN ASHRAF	syedfashraf.cs22@rvce.edu.in	pick and speak	Essay
216	1RV22CS215	T VINAY	tvinay.cs22@rvce.edu.in	Debate	Essay
217	1RV22CS216	TALASILA DHEERAJ	tdheeraj.cs22@rvce.edu.in	Travel vlog	Essay
218	1RV22CS217	TANMAY UMESH	tanmayumesh.cs22@rvce.edu.in	Video on grammar topics	Esaay
219	1RV22CS218	TARUN BHUPATHI	tarunbhupathi.cs22@rvce.edu.in	Video on grammar topic	Essay
220	1RV22CS219	TEJAS GANESH HEGDE	tejasganeshh.cs22@rvce.edu.in	Videos on Grammar	Essays
221	1RV22CS220	UMANG MISHRA	umangmishra.cs22@rvce.edu.in	Pick and speak	Poetry
222	1RV22CS221	VAIBHAV SOIN	vaibhavsoin.cs22@rvce.edu.in	debate	essay
223	1RV22CS222	VAIBHAV U NAVALAGI	vaibhavun.cs22@rvce.edu.in	Videos on Grammar	Essays
224	1RV22CS223	VANSH GOEL	vanshgoel.cs22@rvce.edu.in	Videos on Grammar	Essays
225	1RV22CS224	VANSHIKA KHANDELWAL	vanshikak.cs22@rvce.edu.in	Pick and speak	Essay
226	1RV22CS225	VARSHA V P	varshavp.cs22@rvce.edu.in	Videos on Grammar	Blog
227	1RV22CS226	VARUN A	varuna.cs22@rvce.edu.in	Videos on Grammar	ESSAY
228	1RV22CS227	VARUN S	varuns.cs22@rvce.edu.in	Video on grammar topic	Essay
229	1RV22CS228	VASANTH K	vasanthk.cs22@rvce.edu.in	Video on grammar topic	Essay
230	1RV22CS229	VEERESH	veeresh.cs22@rvce.edu.in	Video on Grammar Topic	Essay
231	1RV22CS230	VIBHAV SIMHA G	vibhavsimhag.cs22@rvce.edu.in	PICK AND SPEAK	ESSAY
232	1RV22CS231	VIDWATH H HOSUR	vidwathhhosur.cs22@rvce.edu.in	Video on Grammer topic	Essay
233	1RV22CS232	VIJAYSHREE	vijayshree.cs22@rvce.edu.in	Pick and speak	Essay

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
234	1RV22CS233	VISHRUTH V	vishruthv.cs22@rvce.edu.in	Video on grammar topic	Essay
235	1RV22CS234	VISHWANATH ANAND DODAMA	vishwanathad.cs22@rvce.edu.in	video on grammar topic	Essay
236	1RV22CS235	VISHWANATH GANESH BHAT	vishwanathgb.cs22@rvce.edu.in	Video on Grammer topic	Essay
237	1RV22CS236	VUPPALA RAGHAVENDRA KUM	vuppalarkumar.cs22@rvce.edu.in	Video on Grammer Topic	Essay
238	1RV22CS237	YASH LOHIA	yashlohia.cs22@rvce.edu.in	Video on Grammer Topic	Essay
239	1RV22CS238	YASHAS DONTHI	yashasdonthi.cs22@rvce.edu.in	Video on grammar topic	Essay
240	1RV22CS239	YATHARTH YADAV	yatharthyadav.cs22@rvce.edu.in	pick and speak	Essay

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: ELECTRONICS & TELECOMMUNICATION

SL NO	USN	NAME	STUDENT RVCE EMAIL ID	y chosen under oral commur	Activity chosen under written communication
1	1RV22ET001	ADITI M BHAT	aditimbhat.et22@rvce.edu.in	Videos on grammar topics	Essays
2	1RV22ET002	ANISH SHAW	anishshaw.et22@rvce.edu.in	Standup Comedy	Technical Magazine
3	1RV22ET003	ANVITHA ANANT RAO	anvithaanantr.et22@rvce.edu.in	Debate	Essays
4	1RV22ET004	APURV NISHIT	apurvnishit.et22@rvce.edu.in	Debate	Blog
5	1RV22ET005	ARUN K R	arunkr.et22@rvce.edu.in	Debate	Essays
6	1RV22ET006	ARUN GOVIND NAIK	arungovindan.et22@rvce.edu.in	Videos on grammar topic	Essays
7	1RV22ET007	ARYA S PATIL	aryaspatil.et22@rvce.edu.in	travel vlog	essay
8	1RV22ET008	ARYAMAN RUHAL	aryamanruhal.et22@rvce.edu.in	travel vlog	essay
9	1RV22ET009	ASISH PAVANRAM GANDROTHU	asishpavanramg.et22@rvce.edu.in	travel vlog	essay
10	1RV22ET010	AVIRAL CHANDRA	aviralchandra.et22@rvce.edu.in	Debate	Poetry writing
11	1RV22ET011	AYUSH BHARDWAJ	ayushbhardwaj.et22@rvce.edu.in	travel vlog	Essays
12	1RV22ET012	AYUSH RATAN	ayushratan.et22@rvce.edu.in	Debate	Essays
13	1RV22ET013	C S AATHISH	csaathish.et22@rvce.edu.in	travel vlog	blog
14	1RV22ET014	C S HARSHA	csharsha.et22@rvce.edu.in	Videos on grammar topics	Essays
15	1RV22ET015	CHANDRASHEKHAR	chandrashekhar.et22@rvce.edu.in	Videos on grammer topic	Essay
16	1RV22ET016	CHIRANTHAN BHARADVAJ B	chiranthanbb.et22@rvce.edu.in	Debate	Essay
17	1RV22ET017	DIVYANSHU RAJ	divyanshuraj.et22@rvce.edu.in	Videos on grammar topics	Essays
18	1RV22ET018	ESHA MAHESH	eshamahesh.et22@rvce.edu.in	Videos on grammar topics	Essays
19	1RV22ET019	HARISHA B C	harishabc.et22@rvce.edu.in	Videos on Grammar Topics	Essays
20	1RV22ET020	HARSHITH K MURTHY	harshithkm.et22@rvce.edu.in	Debate	Essays
21	1RV22ET021	K S SUDIP ANIRUDDH	kssaniruddh.et22@rvce.edu.in	travel vlog	technical magazine
22	1RV22ET022	KSHITIJ PANDEY	kshitijpandey.et22@rvce.edu.in	travel vlog	Essays
23	1RV22ET023	M BARATH	mbarath.et22@rvce.edu.in	Videos on grammar topics	Essays
24	1RV22ET024	M K MURUGAN	mkmurugan.et22@rvce.edu.in	travel vlog	essay

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
25	1RV22ET025	M NISCHAL	mnischal.et22@rvce.edu.in	Travel Vlog	Essays
26	1RV22ET026	MANOJ S H	manojsh.et22@rvce.edu.in	Videos on grammar topics	essays
27	1RV22ET027	MOHAMMED AFNAN	mohammedafnan.et22@rvce.edu.in	Videos on grammar topics	Essays
28	1RV22ET028	NAANYA SHARMA	naanyasharma.et22@rvce.edu.in	Travel Vlog	Essays
29	1RV22ET029	NIHAR DIAS	nihardias.et22@rvce.edu.in	Travel Vlog	Essays
30	1RV22ET030	PALASH TAMRAKAR	palashtamrakar.et22@rvce.edu.in	travel vlog	essay
31	1RV22ET031	PAWNI AGRAWAL	pawniagrawal.et22@rvce.edu.in	Travel vlog	Essays
32	1RV22ET032	PRAKHAR RAJ	prakharraj.et22@rvce.edu.in	Videos on grammar topic	Essays
33	1RV22ET033	PRANAVI BERIKE	pranaviberike.et22@rvce.edu.in	Videos on grammar topic	Essays
34	1RV22ET034	PRANSHU BHATT	pranshubhatt.et22@rvce.edu.in	Travel vlog	Essays
35	1RV22ET035	PRIYANKA N	priyankan.et22@rvce.edu.in	videos on grammar topics	Essays
36	1RV22ET036	PUSHKAR R KULKARNI	pushkarrk.et22@rvce.edu.in	Videos on grammar topics	Essays
37	1RV22ET037	RAGHAVENDRA SHERKHANE	raghavendras.et22@rvce.edu.in	Debate	Essays
38	1RV22ET038	RIYA SINGH	riyasingh.et22@rvce.edu.in	Videos on grammar topics	Essays
39	1RV22ET039	RUSHIL RANJAN	rushilranjan.et22@rvce.edu.in	Travel vlog	Essays
40	1RV22ET040	BHANAGE RUTA DATTATRAY	brutadattatray.et22@rvce.edu.in	Video on grammar topics	Blog
41	1RV22ET041	S M SHIVANI	smshivani.et22@rvce.edu.in	Debate	Essays
42	1RV22ET042	SAHANA R	sahanar.et22@rvce.edu.in	videos on grammar topics	Essays
43	1RV22ET043	SANDESH SINGH	sandeshsingh.et22@rvce.edu.in	Travel vlog	Essays
44	1RV22ET044	SANDYA R	sandyar.et22@rvce.edu.in	videos on grammar topics	Essays
45	1RV22ET045	SANTOSH SHIVAPPA HUDDAR	santoshsh.et22@rvce.edu.in	Videos on grammer topic	Essay
46	1RV22ET046	SHAMANTH RAJ E	shamanthraje.et22@rvce.edu.in	Videos on grammar topics	Essays
47	1RV22ET047	SHIVAKSHEE YADAV	shivaksheey.et22@rvce.edu.in	Videos on grammar topics	Essays
48	1RV22ET048	SREEKAR B M	sreekarbm.et22@rvce.edu.in	Debate	technical magazine
49	1RV22ET049	SREESHA K R	sreeshakr.et22@rvce.edu.in	Videos on grammar topics	Essay
50	1RV22ET050	SRUJAN B N	srujanbn.et22@rvce.edu.in	Debate	Essay
51	1RV22ET051	SRUJAN PRASAD	srujanprasad.et22@rvce.edu.in	Videos on grammar topics	Essay
52	1RV22ET052	SUBHAM SAHA	subhamsaha.et22@rvce.edu.in	VIDEOS ON GRAMMAR TOPIC	ESSAY
53	1RV22ET053	SUHAS PAPANASHI	suhaspapanashi.et22@rvce.edu.in	Debate	Technical magazine
54	1RV22ET054	SWATI	swatiswati.et22@rvce.edu.in	Videos on grammer topics	Essay
55	1RV22ET055	TANMAY RAJPOOT	tanmayrajpoot.et22@rvce.edu.in	travel vlog	Essays
56	1RV22ET056	TEJAS PATTAR	tejaspattar.et22@rvce.edu.in	Pick and: Speak	Technical Magazine
57	1RV22ET057	TEJASWINI S U	tejaswinisu.et22@rvce.edu.in	Videos on grammar topics	Essay
58	1RV22ET058	THARUN KUMAR R	tharunkumarr.et22@rvce.edu.in	Videos on grammar topics	Essay
59	1RV22ET059	THEJAS V	thejasv.et22@rvce.edu.in	Debate	Essay
60	1RV22ET060	VAMSHI KRISHNA K V	vamshikkv.et22@rvce.edu.in	travel vlog	essay

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
61	1RV22ET061	VRINDA V PATIL	vrindavpatil.et22@rvce.edu.in	Videos on grammar topics	Blog
62	1RV22ET062	YASHAS KASHYAP	yashaskashyap.et22@rvce.edu.in	Debate	Essay
63	1RV22ET063	YASHMIT SHARMA	yashmitsharma.et22@rvce.edu.in	Videos on grammar topics	Essays

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: INFORMATION SCIENCE & ENGG., PROGRAM

SL NO	USN	NAME	STUDENT RVCE EMAIL ID	y chosen under oral commun	Activity chosen under written communication
1	1RV22IS001	ABHI S KUMAR	abhiskumar.is22@rvce.edu.in	Debate	Essays
2	1RV22IS002	ADARSH KAMATH	adarshkamath.is22@rvce.edu.in	Videos on grammar topics	Essays
3	1RV22IS003	ADITI SINGH	aditisingh.is22@rvce.edu.in	Videos on grammar topics	Essays
4	1RV22IS004	ADITYA RAVI	adityaravi.is22@rvce.edu.in	Videos on grammar topics	Essays
5	1RV22IS005	ADVITH R PADYANA	advithrpadyana.is22@rvce.edu.in	Videos on grammar topics	Essays
6	1RV22IS006	AMRUTIYA URVISH	amrutiyaurvish.is22@rvce.edu.in	Videos on grammar topics	Essays
7	1RV22IS007	ANANYA KISHORE BHARANI	ananyakbharani.is22@rvce.edu.in	Debate	Essays
8	1RV22IS008	ANEESH SAI GRANDHI	aneeshsgrandhi.is22@rvce.edu.in	Videos on grammar topics	Essays
9	1RV22IS009	ANJALI ANAND HEDA	anjalianandh.is22@rvce.edu.in	Videos on grammar topics	Essays
10	1RV22IS010	ANNANT SHARMA	annantsharma.is22@rvce.edu.in	Debate	Essays
11	1RV22IS011	ARNAV JAIN	arnavjain.is22@rvce.edu.in	Debate	Essays
12	1RV22IS012	ASIYA BANU	asiyabanu.is22@rvce.edu.in	Pick and speak	Poetry writing
13	1RV22IS013	BOLLA SAI NAGA YASWANTH	bollasainagay.is22@rvce.edu.in	Debate	Essays
14	1RV22IS014	CHINMAY C S	chinmaycs.is22@rvce.edu.in	Debate	Essays
15	1RV22IS015	DAKSH GOYAL	dakshgoyal.is22@rvce.edu.in	Videos on grammar topics	Essays
16	1RV22IS016	DEEKSHA HEGDE	deekshahegde.is22@rvce.edu.in	Videos on grammar topics	Essays
17	1RV22IS017	DIVYANSH JAIN	divyanshjain.is22@rvce.edu.in	Travel Vlog	Essays
18	1RV22IS018	GAGANA	gagana.is22@rvce.edu.in	Videos on grammar topics	Essays
19	1RV22IS019	GANNERLA SAI SNEHA	gannerlassneha.is22@rvce.edu.in	Videos on grammar topics	Essays
20	1RV22IS020	HARSH GUPTA	harshgupta.is22@rvce.edu.in	Pick and speak	Blog
21	1RV22IS021	HITANSHI UMESH DEO	hitanshiumeshd.is22@rvce.edu.in	Videos on grammar topics	Essays
22	1RV22IS022	HRUSHIKESH KASHINATH KOLI	hrushikeshkk.is22@rvce.edu.in	Travel Vlog	Essays
23	1RV22IS023	ISHAN GUPTA	ishangupta.is22@rvce.edu.in	Videos on grammar topics	Essays
24	1RV22IS024	ISHITVA SHARMA	ishitvasharma.is22@rvce.edu.in	Debate	Essays
25	1RV22IS025	JEEVAN KUMAR	jeevankumar.is22@rvce.edu.in	Videos on grammar topics	Essays
26	1RV22IS026	JEEVAN RAJ S B	jeevanrajsb.is22@rvce.edu.in	Videos on grammar topics	Essays
27	1RV22IS027	JEEVITH P	jeevithp.is22@rvce.edu.in	Videos on grammar topics	Essays
28	1RV22IS028	K KEERTHAN KINI	kkeerthankini.is22@rvce.edu.in	Videos on grammar topics	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
29	1RV22IS029	KHUNAAL ARYAN	khunaalaryan.is22@rvce.edu.in	Debate	crossword puzzles
30	1RV22IS030	KRISHNA VADDAGIRI	krishnav.is22@rvce.edu.in	Videos on grammar topics	Essays
31	1RV22IS031	LEKHA BAGALKOT	lekhabagalkot.is22@rvce.edu.in	Videos on grammar topics	Blog
32	1RV22IS032	MANASVINI G PADMASALI	manasvinigp.is22@rvce.edu.in	Debate	Essays
33	1RV22IS033	MANISH S RAJ	manishsraj.is22@rvce.edu.in	Videos on grammar topics	Essays
34	1RV22IS034	MANOJITH BHAT V	manojithbhatv.is22@rvce.edu.in	Videos on grammar topics	Essays
35	1RV22IS035	MANU PRAKASH BHAT	manuprakashb.is22@rvce.edu.in	Videos on grammar topics	Essays
36	1RV22IS036	MANYU A KSHEERASAGAR	manyuaksheeras.is22@rvce.edu.in	Videos on grammar topics	Essays
37	1RV22IS037	MUKTHA P	mukthap.is22@rvce.edu.in	Videos on grammar topics	Essays
38	1RV22IS038	NACHIKETH ADIGA	nachikethadiga.is22@rvce.edu.in	Videos on grammar topics	Essays
39	1RV22IS039	NAMAN TANEJA	namantaneja.is22@rvce.edu.in	Play/drama	Blog
40	1RV22IS040	OBBU VENKATA SAI NITHIN	ovsainithin.is22@rvce.edu.in	Debate	crossword puzzles
41	1RV22IS041	PARTH KESHAV CHATURVEDI	parthkeshavc.is22@rvce.edu.in	Videos on grammar topics	Essays
42	1RV22IS042	POORNAV G	poornavg.is22@rvce.edu.in	Debate	Essays
43	1RV22IS043	PRACHI N	prachin.is22@rvce.edu.in	Travel Vlog	Blog
44	1RV22IS044	PRAJWAL GOPAL PATGAR	prajwalgopalp.is22@rvce.edu.in	Videos on grammar topics	Essays
45	1RV22IS045	PRAMUKH K	pramukhk.is22@rvce.edu.in	Videos on grammar topics	Essays
46	1RV22IS046	PRANAV MOTAMARRI	pranavm.is22@rvce.edu.in	Pick and speak	Poetry writing
47	1RV22IS047	R A NITHIN NANDANA	ranithinnandan.is22@rvce.edu.in	Pick and speak	crossword puzzles
48	1RV22IS048	RAJSHEKHAR KUMAR	rajshekhark.is22@rvce.edu.in	Videos on grammar topics	Essays
49	1RV22IS049	RANCHIT SHARMA	ranchitsharma.is22@rvce.edu.in	Videos on grammar topics	crossword puzzles
50	1RV22IS050	RISHAV KUMAR	rishavkumar.is22@rvce.edu.in	Videos on grammar topics	crossword puzzles
51	1RV22IS051	ROHAN GANAPATHI R	rohanganapathir.is22@rvce.edu.in	Travel Vlog	Essays
52	1RV22IS052	ROHIT J SANGAN	rohitjsangan.is22@rvce.edu.in	Travel Vlog	Essays
53	1RV22IS053	SACHIDANAND N HEDE	sachinanandnh.is22@rvce.edu.in	Travel Vlog	Essays
54	1RV22IS054	SAI CHAITANYA SNEHAL BURLE	saichaitanyasb.is22@rvce.edu.in	Videos on grammar topics	Essays
55	1RV22IS055	SANDESH DATTATRI	sandeshdattatr.is22@rvce.edu.in	Travel Vlog	Essays
56	1RV22IS056	SANGANNA MOTGI	sangannamotgi.is22@rvce.edu.in	Travel Vlog	Essays
57	1RV22IS057	SANJANA BHAGWATH	sanjanab.is22@rvce.edu.in	Debate	crossword puzzles
58	1RV22IS058	SANKALP CHAUDHARY	sankalpc.is22@rvce.edu.in	Videos on grammar topics	Essays
59	1RV22IS059	SARAN KARTHIK P	sarankarthikp.is22@rvce.edu.in	Pick and speak	Poetry writing
60	1RV22IS060	SHAIK MOHAMMED ALTHAF	shaikmdalthaf.is22@rvce.edu.in	Pick and speak	Poetry writing
61	1RV22IS061	SHAMBHAVI SENGAR	shambhavis.is22@rvce.edu.in	Videos on grammar topics	Poetry writing
62	1RV22IS062	SHASHWATH S H	shashwathsh.is22@rvce.edu.in	Videos on grammar topics	Essays
63	1RV22IS063	SHUBHAM UPADHYAY	shubhamu.is22@rvce.edu.in	Videos on grammar topics	Essays
64	1RV22IS064	SIDDESH K R	siddeshkr.is22@rvce.edu.in	Debate	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
65	1RV22IS065	SIDDHARTH KRUSHNAKUMAR A	siddharthkka.is22@rvce.edu.in	Play/drama	Blog
66	1RV22IS066	SITHIJ SHETTY	sithijshetty.is22@rvce.edu.in	Travel Vlog	Essays
67	1RV22IS067	SOHAN RAJU M	sohanrajum.is22@rvce.edu.in	Videos on grammar topics	Essays
68	1RV22IS068	SUBHRANIL SWAR	subhranilswar.is22@rvce.edu.in	Videos on grammar topics	Poetry writing
69	1RV22IS069	SUBRAMANYA G M	subramanyagm.is22@rvce.edu.in	Pick and speak	Essays
70	1RV22IS070	SUPRIYA S	supriyas.is22@rvce.edu.in	Videos on grammar topics	Essays
71	1RV22IS071	SURAJ GORAI	surajgorai.is22@rvce.edu.in	Videos on grammar topics	Essays
72	1RV22IS072	SYED UMAIR	syedumair.is22@rvce.edu.in	Videos on grammar topics	Essays
73	1RV22IS073	TANMAYA WUJJINI MATADA	tanmayawmatada.is22@rvce.edu.in	Debate	Essays
74	1RV22IS074	TEJAS SOHAM	tejassoham.is22@rvce.edu.in	Pick and speak	Essays
75	1RV22IS075	VAIBHAV T L	vaibhavtl.is22@rvce.edu.in	Travel Vlog	Poetry writing
76	1RV22IS076	VARSHA PRAVEEN HEGDE	varshaphegde.is22@rvce.edu.in	Videos on grammar topics	Essays
77	1RV22IS077	VARSHA S	varshas.is22@rvce.edu.in	Videos on grammar topics	Essays
78	1RV22IS078	VIJETH G	vijethg.is22@rvce.edu.in	Videos on grammar topics	Essays
79	1RV22IS079	VINOD KUMAR	vinodkumar.is22@rvce.edu.in	Videos on grammar topics	crossword puzzles
80	1RV22IS080	VRADDHI SHETTY	vraddhishetty.is22@rvce.edu.in	Travel Vlog	Essays
81	1RV22IS081	YASH SINGH	yashsingh.is22@rvce.edu.in	Videos on grammar topics	Essays

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: BIOTECHNOLOGY PROGRAM FOR THE YEAR 2022 - 2023					
SL NO	**USN**	**NAME**	**STUDENT RVCE EMAIL ID**	**Activity chosen under Oral Communication**	**Activity chosen under Written Communication**
1	1RV22BT001	AMITH B	amithb.bt22@rvce.edu.in	Debate	Essays
2	1RV22BT002	AMRUTH N MURTHY	amruthnmurthy.bt22@rvce.edu.in	Debate	Essays
3	1RV22BT003	AMRUTHA	amrutha.bt22@rvce.edu.in	Videos on grammar topics	Essay
4	1RV22BT004	ANANYA S PADASALGI	ananyasp.bt22@rvce.edu.in	Videos on grammar topics	Essays
5	1RV22BT005	ANESH S A	aneshsa.bt22@rvce.edu.in	Debate	Essays
6	1RV22BT006	ANIKA	anika.bt22@rvce.edu.in	Video on grammar topic	Essay
7	1RV22BT007	ARCHITH SHANKAR	archithshankar.bt22@rvce.edu.in	pick and speak	essays
8	1RV22BT008	ARUSHI RAJKUMAR KADAM	arushirkadam.bt22@rvce.edu.in	Debate	Essays
9	1RV22BT009	ARYA K	aryak.bt22@rvce.edu.in	Video on grammar topic	Essays
10	1RV22BT010	BAZILLA WANI	bazillawani.bt22@rvce.edu.in	Grammar video	First Year Magazine/news letter- English
11	1RV22BT011	BHUMIKA MANDOLKAR	bhumikam.bt22@rvce.edu.in	Grammar video	First Year Magazine/news letter- English
12	1RV22BT012	BRUNDA S	brundas.bt22@rvce.edu.in	Travel Vlogs	Essays
13	1RV22BT013	CHANDHANA M	chandhanam.bt22@rvce.edu.in	debate	essay
14	1RV22BT014	CHANNARUSHABENDRA Y	crushabendray.bt22@rvce.edu.in	Debate	Essays
15	1RV22BT015	CHIRAG S REDDY	chiragsreddy.bt22@rvce.edu.in	Debate	Poetry writing

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
16	1RV22BT016	GOVINDA A K	govindaak.bt22@rvce.edu.in	Debate	Essays
17	1RV22BT017	HARSHITH M L	harshithml.bt22@rvce.edu.in	Pick and speak	Essays
18	1RV22BT018	HARSHITHA KN	harshithakn.bt22@rvce.edu.in	Travel vlogs	Essays
19	1RV22BT019	HIMA BINDU ATTEL	himabinduattel.bt22@rvce.edu.in	Debate	Essays
20	1RV22BT020	JYOTHIKA REDDY MANDEM	jyothikareddym.bt22@rvce.edu.in	Debate	Essay
21	1RV22BT021	K YUKTHA	kyuktha.bt22@rvce.edu.in	Debate	Essay
22	1RV22BT022	KARI TULASI	karitulasi.bt22@rvce.edu.in	Travel Vlog	Essay
23	1RV22BT023	KASHYAPA VISHWADHARMI SH	kashyapvsharma.bt22@rvce.edu.in	Debate	Essay
24	1RV22BT024	KHUSHI J SALIAN	khushijsalian.bt22@rvce.edu.in	Videos on grammar topics	First year magazine/news letter-English
25	1RV22BT025	KRITI KANNAN	kritikannan.bt22@rvce.edu.in	Grammer videos	Blogs
26	1RV22BT026	LIKHITHA S	likithas.bt22@rvce.edu.in	Videos on grammar topICS	8 Essays
27	1RV22BT027	LIPIKA S	lipikas.bt22@rvce.edu.in	debate	essays
28	1RV22BT028	M D YAANA MUTHAMMA	mdyanamuthamma.bt22@rvce.edu.in	Videos on grammar topics	Essays
29	1RV22BT029	MAANASA M G	maanasamg.bt22@rvce.edu.in	Videos on grammar topics	Essays
30	1RV22BT030	MADHUMITHA DHANASEKARAN	madhumithad.bt22@rvce.edu.in	Videos on grammar topics	Essays
31	1RV22BT031	MEDHA R RAO	medharrao.bt22@rvce.edu.in	Debate	Essays
32	1RV22BT032	MOHAMMED BILAL MAKANDAR	mdbilalm.bt22@rvce.edu.in	Debate	Essays
33	1RV22BT033	MOULYA R GOWDA	moulyargowda.bt22@rvce.edu.in	Videos on grammar topics	Blogs
34	1RV22BT034	N S MANASI	nsmanasi.bt22@rvce.edu.in	Videos on grammar topics	Essays
35	1RV22BT035	NAGASHREE B	nagashreeb.bt22@rvce.edu.in	Travel vlog	crossword puzzles
36	1RV22BT036	NIHARIKA KIRAN NAG	niharikakirann.bt22@rvce.edu.in	Videos on grammar topics	Essays
37	1RV22BT037	NIRANJANA SREENIVASAN	niranjanas.bt22@rvce.edu.in	Travel Vlogs	Essays
38	1RV22BT038	NISHITA SENTHILKUMAR	nishitask.bt22@rvce.edu.in	debate	Essays
39	1RV22BT039	PARIKSHIT YALLAPPA DOMBI	parikshityd.bt22@rvce.edu.in	Travel Vlog	Essays
40	1RV22BT040	PRERNA KRITI	prernakriti.bt22@rvce.edu.in	debate	Poetry Writing
41	1RV22BT041	R LIKHITHA	rlikitha.bt22@rvce.edu.in	Videos on Grammar topics	Poetry Writing
42	1RV22BT042	RADNI CHANDRASHEKHAR DE	radnicd.bt22@rvce.edu.in	Grammar video	Blogs
43	1RV22BT043	RAKSHAA P	rakshaap.bt22@rvce.edu.in	Travel Vlogs	Essays
44	1RV22BT044	RAKSHITHA B R	rakshithabr.bt22@rvce.edu.in	Grammar video	First Year Magazine/news letter- English
45	1RV22BT045	RAO DEEKSHA UMESH VEENA	raodeekshauv.bt22@rvce.edu.in	Videos on Grammar topics	Essays
46	1RV22BT046	RAVI SHANKAR S	ravishankars.bt22@rvce.edu.in	Travel vlog	Essays
47	1RV22BT047	RISHIKA MOHAN V	rishikav.bt22@rvce.edu.in	Videos on grammar topics	Essays
48	1RV22BT048	ROHAN JAY BASAVARAJA	rohanjayb.bt22@rvce.edu.in	Travel Vlog	Poetry Writing
49	1RV22BT049	SANJU H K	sanjuhk.bt22@rvce.edu.in	Debate	Essays
50	1RV22BT050	SHRADHA ANAND MULIMANI	shradhaanandm.bt22@rvce.edu.in	Grammar Videos	Poetry Writing
51	1RV22BT051	SHRADHA A VENKATACHALAM	shradhaav.bt22@rvce.edu.in	Debate	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
52	1RV22BT052	SHREYA LAL	shreyalal.bt22@rvce.edu.in	Travel Vlogs	Essays
53	1RV22BT053	SHRIYA VIKRAM SUTHRAM	shriyavikrams.bt22@rvce.edu.in	Debate	Essays
54	1RV22BT054	SHWETA BATHIJA	shwetabathija.bt22@rvce.edu.in	Videos on grammar topics	essays
55	1RV22BT055	SLOKA KUMARSWAMY	slokakumars.bt22@rvce.edu.in	pick and speak	Essays
56	1RV22BT056	SMRITHI R HOLLA	smrithirholla.bt22@rvce.edu.in	videos on grammar topics	Essays
57	1RV22BT057	SNEHA DEB BARMAN	snehadebbarman.bt22@rvce.edu.in	Videos on Grammar topics	First year magazine/newsletter
58	1RV22BT058	SPOORTI ANIL BANDIKATTE	spoortianilb.bt22@rvce.edu.in	Debate	Essay
59	1RV22BT059	TANUSH NILESH GUNDAWAR	tanushnileshg.bt22@rvce.edu.in	Travel Vlog	Essays
60	1RV22BT060	TARU DAS	tarudas.bt22@rvce.edu.in	Pick and speak	Blogs
61	1RV22BT061	TEJASWI S	tejaswis.bt22@rvce.edu.in	Debate	Crossword puzzles
62	1RV22BT062	VAISHNAVI RAJENDRA TENGIN	vaishnavirt.bt22@rvce.edu.in	Debate	Essays
63	1RV22BT063	VIGNESH KUMAR KAIPA	vigneshkumark.bt22@rvce.edu.in	Grammar Videos	Essays
64	1RV22BT064	VISHAL H	vishalh.bt22@rvce.edu.in	**Pick and Speak**	**First Year Magazine/news letter- English**

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: AEROSPACE ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
SL NO	**USN**	**NAME**	**STUDENT RVCE EMAIL ID**	y chosen underoral communic	Activity chosen under written communication
1	1RV22AS001	AARYA PRAKASH MANGALORE	aaryaprakashm.ae22@rvce.edu.in	Videos on grammar topics	Essays
2	1RV22AS002	ADITI A	aditia.ae22@rvce.edu.in	Debate	Essays
3	1RV22AS003	AKSHAY GANESH S	akshayganeshs.ae22@rvce.edu.in	Debate	Essays
4	1RV22AS004	AMBARISH	pambarish.ae22@rvce.edu.in	Travel Vlog	Essays
5	1RV22AS005	AMOAGHASHESHA J A	amoaghasheshaa.ae22@rvce.edu.in	Debate	Essays
6	1RV22AS006	ARJUN SAHU	arjunsahu.ae22@rvce.edu.in	Pick and speak	Poetry Writing
7	1RV22AS007	ASHOK R	ashokr.ae22@rvce.edu.in	Travel Vlog	Poetry Writing
8	1RV22AS008	AVIKSHITH KULENADY	avikshithk.ae22@rvce.edu.in	Debate	Essays
9	1RV22AS009	B L KANISH	blkanish.ae22@rvce.edu.in	Travel Vlog	Essays
10	1RV22AS010	C EARANNA VARMA	cvarma.ae22@rvce.edu.in	Pick and speak	Essays
11	1RV22AS011	CHANDANA D	chandanad.ae22@rvce.edu.in	Vidoes on Grammer	Essays
12	1RV22AS012	CHARAN S L	charanl.ae22@rvce.edu.in	Travel Vlog	Essays
13	1RV22AS013	DEEPAKKUMAR MALLIKARJUN	deepakkumarmn.ae22@rvce.edu.in	Travel Vlog	Essays
14	1RV22AS014	DHARSHINI M A	dharshinima.ae22@rvce.edu.in	Videos on Grammer	Essays
15	1RV22AS015	G DEEPAK	gdeepak.ae22@rvce.edu.in	Travel Vlog	Essays
16	1RV22AS016	GAGANA Y	gaganay.ae22@rvce.edu.in	Debate	Poetry Writing
17	1RV22AS017	GAURISH V T	gaurisht.ae22@rvce.edu.in	Drama	Essays
18	1RV22AS018	H NANDISH	hnandish.ae22@rvce.edu.in	Debate	Crossword Puzzle
19	1RV22AS019	HARSH RAJ	harshraj.ae22@rvce.edu.in	Debate	Essays
20	1RV22AS020	HEMENDRASINGH RATHOD	hemendrasinghr.ae22@rvce.edu.in	Videos on Grammer	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
21	1RV22AS021	ISHAAN DUTTA	ishaandutta.ae22@rvce.edu.in	Debate	Essays
22	1RV22AS022	JAHANAVY B S	jahanavybs.ae22@rvce.edu.in	Play/Drama	Essays
23	1RV22AS023	KAVITA SHARMA	kavitasharma.ae22@rvce.edu.in	Videos on Grammer Topics	Poetry Writing
24	1RV22AS024	KRISHNA VIDHI PRASAD	krishnaprasad.ae22@rvce.edu.in	Travel Vlog	Technical Magazine
25	1RV22AS025	KUSHAL CHATTERJEE	kushalc.ae22@rvce.edu.in	Debate	Essays
26	1RV22AS026	LIKHIT SHETTEPPANAVAR	likhits.ae22@rvce.edu.in	Travel Vlog	Essays
27	1RV22AS027	LISHIKA U	lishikau.ae22@rvce.edu.in	Play/Drama	Poetry Writing
28	1RV22AS028	LYDIA ANN ABRAHAM	lydiaanna.ae22@rvce.edu.in	Videos on Grammer Topics	Poetry Writing
29	1RV22AS029	MANVITH RAO AROOR	manvithra.ae22@rvce.edu.in	Play/Drama	Essay
30	1RV22AS030	MOHAMMED FAZAL PASHA	mdfazalpasha.ae22@rvce.edu.in	Videos on Grammer Topics	Essays
31	1RV22AS031	MONICA A S	monicaas.ae22@rvce.edu.in	Travel Vlog	Essays
32	1RV22AS032	MOULIK JAIN	moulikjain.ae22@rvce.edu.in	Debate	Essays
33	1RV22AS033	N V JISHNU SATCHIDANAND	nsatchidanand.ae22@rvce.edu.in	Debate	Essays
34	1RV22AS034	NAGAVENDRA R HARDEKAR	nagavendrarh.ae22@rvce.edu.in	Vidoes on Grammer Topics	Essays
35	1RV22AS035	NEHA ARUN MANDI	nehaarunmandi.ae22@rvce.edu.in	Play/Drama	Essays
36	1RV22AS036	NIDHI M	nidhim.ae22@rvce.edu.in	Standup Comedy	Poetry Writing
37	1RV22AS037	NIKHIL RAVIKUMAR	nikhilravik.ae22@rvce.edu.in	Travel Vlog	Essays
38	1RV22AS038	PANKTI GADHIYA	panktigadhiya.ae22@rvce.edu.in	Videos on Grammer Topics	Poetry Writing
39	1RV22AS039	PAVAN Y K	pavanyk.ae22@rvce.edu.in	Standup Comedy	Essays
40	1RV22AS040	PRAJWAL N	prajwaln.ae22@rvce.edu.in	Debate	Essays
41	1RV22AS041	PRANAM K SALIAN	pranamksalian.ae22@rvce.edu.in	Videos on Grammer Topics	Essays
42	1RV22AS042	PRASAD ADIVEPPA GULAGI	prasadagulagi.ae22@rvce.edu.in	Travel Vlog	Essays
43	1RV22AS043	RISHIKA BANDYOPADHYAY	rishikab.ae22@rvce.edu.in	Play/ Drama	Essays
44	1RV22AS044	RIYA AGGARWAL	riyaaggarwal.ae22@rvce.edu.in	Debate	Crossword Puzzles
45	1RV22AS045	S MRIDULA	smridula.ae22@rvce.edu.in	Play/ Drama	Poetry Writing
46	1RV22AS046	SAMANYU S	samanyus.ae22@rvce.edu.in	Debate	Blog
47	1RV22AS047	SHARVARI ABHIGHNA K M	sharvariabhigh.ae22@rvce.edu.in	Travel Vlog	Essays
48	1RV22AS048	SHASHANK B R	shashankbr.ae22@rvce.edu.in	Travel Vlog	Essays
49	1RV22AS049	SHIVUKUMAR	shivukumar.ae22@rvce.edu.in	Travel Vlog	Essays
50	1RV22AS050	SIDDARTH KIRAN GOLE	siddarthgole.ae22@rvce.edu.in	Debate	Essays
51	1RV22AS051	SIDDHARTH SATISH	siddharths.ae22@rvce.edu.in	Debate	Essays
52	1RV22AS052	SIDDHARTH VISHWAS KONDUR	siddharthvk.ae22@rvce.edu.in	Travel Vlog	Essays
53	1RV22AS053	SINCHANA N	sinchanan.ae22@rvce.edu.in	Travel Vlog	Essays
54	1RV22AS054	SONIKA JAIN C S	sonikas.ae22@rvce.edu.in	Play/Drama	Essays
55	1RV22AS055	SOUMYA SHIVALINGAPPA YALI	soumyasyaligar.ae22@rvce.edu.in	Video on Grammer Topic	Essays
56	1RV22AS056	SUDEV S	sudevs.ae22@rvce.edu.in	Video on Grammer Topic	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
57	1RV22AS057	SUMEDH S BHAT	sumedhsbhat.ae22@rvce.edu.in	pick and speak	blog
58	1RV22AS058	SUSHANTH P GOWDA	sushanthgowda.ae22@rvce.edu.in	Pick and speak	Essays
59	1RV22AS059	TANYA SINGHVI	tanyasinghvi.ae22@rvce.edu.in	Debate	Crossword Puzzles
60	1RV22AS060	TARUN PRABASH P	tarunp.ae22@rvce.edu.in	Pick and speak	Essays
61	1RV22AS061	TUSHAR MONGIA	tusharmongia.ae22@rvce.edu.in	Debate	Essays
62	1RV22AS062	UBAID AHMAD BHAT	ubaidbhat.ae22@rvce.edu.in	Debate	Essays
63	1RV22AS063	VACHHANI JAYATI	vachhanijayati.ae22@rvce.edu.in	Travel Vlog	Crossword Puzzles
64	1RV22AS064	VISMAI SAKSHIBEEDU	vismaisakshib.ae22@rvce.edu.in	Debate	Crossword Puzzles
65	1RV22AS065	YASHASWINI P BHAGAVATH	yashaswinipb.ae22@rvce.edu.in	Travel Vlog	Crossword Puzzles

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: ARTIFICIAL INTELLIGENCE & MACHINE LEARING PROGRAM FOR THE YEAR 2022 - 2023					
SL NO	**USN**	**NAME**	**STUDENT RVCE EMAIL ID**	**Activity chosen under Oral Communication**	**Activity chosen under Written Communication**
1	1RV22AI001	ABHINAV	abhinav.ai22@rvce.edu.in	Videos on Grammar Topic	Essay
2	1RV22AI002	ABHISHEK BARADWAJ	abhishekb.ai22@rvce.edu.in	Videos on Grammar Topic	Cross word puzzle
3	1RV22AI003	ADITYA TEKRIWAL	adityatekriwal.ai22@rvce.edu.in	Debate	Poetry Writing
4	1RV22AI004	AKSHIT AGARWAL	akshitagarwal.ai22@rvce.edu.in	Videos on Grammar Topic	Essay
5	1RV22AI005	AKSHITA CHAVAN	akshitachavan.ai22@rvce.edu.in	Videos on Grammar Topic	Essay
6	1RV22AI006	ALLAN SALDANHA	allansaldanha.ai22@rvce.edu.in	Videos on Grammar Topic	Essay
7	1RV22AI007	ANANTH M ATHREYA	ananthmathreya.ai22@rvce.edu.in	Pick and Speak	Crossword puzzles
8	1RV22AI008	ANKUSH ARUNKUMAR KAUNDIL	ankushakk.ai22@rvce.edu.in	Debate	Essay
9	1RV22AI009	ARYAN SINHA	aryansinha.ai22@rvce.edu.in	Videos on Grammar	Essay
10	1RV22AI010	ASHRITH CHITRIKI	ashrithc.ai22@rvce.edu.in	Videos on Grammar Topic	Essay
11	1RV22AI011	ASHWIN AJOY DHARMAVARAM	ashwinajoyd.ai22@rvce.edu.in	Video on Grammar Topic	Essay
12	1RV22AI012	AYUSH CHOUHAN	ayushchouhan.ai22@rvce.edu.in	Videos on Grammar Topics	Essays
13	1RV22AI013	CHILLALE NAVEEN	chillalenaveen.ai22@rvce.edu.in	Videos on Grammar Topics	Essays
14	1RV22AI014	CHINMAYA B J	chinmayaj.ai22@rvce.edu.in	Debate	Essay
15	1RV22AI015	DEVARAPALLI VENKATA SARAY	dvsarayureddy.ai22@rvce.edu.in	Debate	Blog
16	1RV22AI016	DHANAMKULA SAI SIVA BHASW	dssbhaswanth.ai22@rvce.edu.in	travel Vlog	Cross Words
17	1RV22AI017	GNYAN MALLAIAH	gnyanmallaiah.ai22@rvce.edu.in	Videos on Grammar Topics	Essay
18	1RV22AI018	HARSH LILHA	harshlilha.ai22@rvce.edu.in	Videos on Grammar Topics	Essay
19	1RV22AI019	J R NIKHIL	nikhiljr.ai22@rvce.edu.in	Travel Vlog	Essay
20	1RV22AI020	JASWANTH REDDY M	jaswanthrm.ai22@rvce.edu.in	Videos on Grammar Topics	Essay
21	1RV22AI021	K SHASHANKA KALKURA	kshashankak.ai22@rvce.edu.in	Videos on Grammar Topics	Essay
22	1RV22AI022	KEERTI PATIL	keertipatil.ai22@rvce.edu.in	Videos on Grammar Topics	Crosswords Puzzle
23	1RV22AI023	KOMPELLA TUSHAR	kompellatushar.ai22@rvce.edu.in	Debate	Crosswords Puzzle
24	1RV22AI024	KOTA VISHNU DATTA	kvishnudatta.ai22@rvce.edu.in	Videos on Grammar	Essay

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25	1RV22AI025	KUSHAGRA AATRE	kushagraaatre.ai22@rvce.edu.in	Videos on Grammar	Essays
26	1RV22AI026	LAKSHMEESHA K R	lakshmeeshakr.ai22@rvce.edu.in	Videos on Grammar	Essays
27	1RV22AI027	MISHAEL ABHISHEK ZAKKAM	mabhishekz.ai22@rvce.edu.in	Debate	Essays
28	1RV22AI028	MRINAL CARIAPPA G P	mrinalcgp.ai22@rvce.edu.in	Videos on Grammar	Essay
29	1RV22AI029	NANDEESH C M	nandeeshcm.ai22@rvce.edu.in	Travel vlog	Essay
30	1RV22AI030	NIDHI B C	nidhibc.ai22@rvce.edu.in	Travel vlog	Essay
31	1RV22AI031	NISCHITHA P	nischithap.ai22@rvce.edu.in	Debate	Poetry
32	1RV22AI032	NISHANTH H R	nishanthhr.ai22@rvce.edu.in	Travel Vlog	Essay
33	1RV22AI033	NISHANTH UDUPA S	nishanthudupas.ai22@rvce.edu.in	Videos on Grammar Topic	Crossword Puzzle
34	1RV22AI034	NITINKUMAR LONI	nitinkumarloni.ai22@rvce.edu.in	Videos on Grammar Topic	Essay
35	1RV22AI035	OISHIK DHAR	oishikdhar.ai22@rvce.edu.in		
36	1RV22AI036	P SHREYAS	pshreyas.ai22@rvce.edu.in	Debate	Technical magazine
37	1RV22AI037	PARTH SHUKLA	parthshukla.ai22@rvce.edu.in	Videos on Grammar Topic	Blog
38	1RV22AI038	PAVITHRA C	pavithrac.ai22@rvce.edu.in	Videos on Grammar Topics	Crosswords Puzzle
39	1RV22AI039	PREETHAM N	preethamn.ai22@rvce.edu.in	Travel Vlog	Essays
40	1RV22AI040	RACHITH S	rachiths.ai22@rvce.edu.in	Videos on Grammar Topic	Essays
41	1RV22AI041	RAJYALAKSHMI PRASANNA	rajyalakshmip.ai22@rvce.edu.in	Travel Vlog	Poetry Writing
42	1RV22AI042	RAKESH H G	rakeshhg.ai22@rvce.edu.in	Videos on Grammar Topic	Essay
43	1RV22AI043	RAKESH V SHETTY	rakeshvshetty.ai22@rvce.edu.in	Videos on Grammar topic	Essay
44	1RV22AI044	RAVIKIRAN AITHAL	ravikirana.ai22@rvce.edu.in	Video on Grammar Topic	Essay
45	1RV22AI045	RISHIKESH NITIN KAKADE	rishikeshnitin.ai22@rvce.edu.in	Debate	Essays
46	1RV22AI046	ROSHAN NINAN JOHN	roshanninanj.ai22@rvce.edu.in	Debate	Blog
47	1RV22AI047	S KUSHAAL	skushaal.ai22@rvce.edu.in	Travel Vlog	Blog
48	1RV22AI048	SAFIYA FARHEEN	safiyafarheen.ai22@rvce.edu.in	Videos on Grammar Topics	Essay
49	1RV22AI049	SANDEEP S PAWAR	sandeepspawar.ai22@rvce.edu.in	Travel Vlogs	Crossword puzzles
50	1RV22AI050	SAUMYA SRIVASTAVA	saumyas.ai22@rvce.edu.in	Travel Vlogs	Essays
51	1RV22AI051	SHARANKRISHNA KONDI	sharankrishnak.ai22@rvce.edu.in	Travel Vlogs	Essays
52	1RV22AI052	SHIVA KUMAR	shivakumar.ai22@rvce.edu.in	Debate	Essays
53	1RV22AI053	SHIVUKUMAR MALLIKARJUN H	shivukumarmh.ai22@rvce.edu.in	Travelling VLOG	Cross word Puzzles
54	1RV22AI054	SHREYA M	shreyam.ai22@rvce.edu.in	Travel Vlogs	Essays
55	1RV22AI055	SHREYAS JAIN	shreyasjain.ai22@rvce.edu.in	Videos on Grammar Topic	Essays
56	1RV22AI056	SNEHIL VUKKUSILA	snehilv.ai22@rvce.edu.in	Videos on Grammar Topic	Essays
57	1RV22AI057	SRIKAR REDDY YETTAPU	srikarryettapu.ai22@rvce.edu.in		
58	1RV22AI058	SRIVANTH SRINIVASAN	srivanths.ai22@rvce.edu.in	Travel Vlog	Blog
59	1RV22AI059	SUJAY ARUN KUDTARKAR	sujayarunkudta.ai22@rvce.edu.in	Videos on grammar topics	Essays
60	1RV22AI060	TANISH S	tanishs.ai22@rvce.edu.in	Debate	Crossword puzzles

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
61	1RV22AI061	TANISHQ MANJU REDDY	tanishqmreddy.ai22@rvce.edu.in	Pick and Speak	Essays
62	1RV22AI062	VARUN BANDA	varunbanda.ai22@rvce.edu.in	Videos on grammar topics	Crossword puzzles
63	1RV22AI063	YASHVANTH B L	yashvanthbl.ai22@rvce.edu.in	Travel Vlog	Essays

PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: COMPUTER SCIENCE & ENGG. (CYBER

SL NO	USN	NAME	STUDENT RVCE EMAIL ID		
1	1RV22CY001	AARYA PRASAD PAI	aaryaprasadpai.cy22@rvce.edu.in	travel vlogs	essays
2	1RV22CY002	ABHISHEK SARAFF	abhisheksaraff.cy22@rvce.edu.in	Video on Grammar Topic	Essay
3	1RV22CY003	ABHYUDAY SINGH	abhyudaysingh.cy22@rvce.edu.in	video on grammar topic	Essays
4	1RV22CY004	ADARSH SHRIVASTAVA	adarshs.cy22@rvce.edu.in	video on grammar topic	Crossword puzzle
5	1RV22CY005	ADITYA M BETHUR	adityambethur.cy22@rvce.edu.in	Travel Vlogs	Essay
6	1RV22CY006	ADITYA SHARMA	adityasharma.cy22@rvce.edu.in	Travel Vlog	Essay
7	1RV22CY007	ADITYA SURESH NAIR	adityasnair.cy22@rvce.edu.in	video on grammar topic	essay
8	1RV22CY008	AISHWARYA GITE	aishwaryagite.cy22@rvce.edu.in	Video on grammar topic	Essay
9	1RV22CY009	AMOGH A JOSHI	amoghajoshi.cy22@rvce.edu.in	Debate	Essay
10	1RV22CY010	ANKITHA V	ankithav.cy22@rvce.edu.in	Travel Vlogs	essay
11	1RV22CY011	APOORVA C S	apoorvacs.cy22@rvce.edu.in	Videos on grammar topics	Essays
12	1RV22CY012	ARMAN SINGH BHATI	armansinghb.cy22@rvce.edu.in	Debate	Essay
13	1RV22CY013	ARUN	arun.cy22@rvce.edu.in	Videos on grammar topics	Essay
14	1RV22CY014	ARYAN CHATURVEDI	aryanc.cy22@rvce.edu.in	Video on grammar topic	Crossword Puzzle
15	1RV22CY015	ASHUTOSH JOSHI	ashutoshjoshi.cy22@rvce.edu.in	video on gramar topic	Essay
16	1RV22CY016	AVANI B N	avanibn.cy22@rvce.edu.in	video on grammar topic	Essay
17	1RV22CY017	BANDARU JNYANADEEP	bjnyanadeep.cy22@rvce.edu.in	video on grammar topic	Crossword puzzle
18	1RV22CY018	BHAKTI VYAS	bhaktivyas.cy22@rvce.edu.in	video on grammar topic	essay
19	1RV22CY019	BHUMI KIRTIKUMAR LAKHANI	bhumiklakhani.cy22@rvce.edu.in	Videos on grammar topics	Blog
20	1RV22CY020	BIPIN RAJ C	bipinrajc.cy22@rvce.edu.in	Videos on grammar topics	Essay
21	1RV22CY021	BORU HARSHAVARDHAN REDD	boruhreddy.cy22@rvce.edu.in	video on grammar topic	Essay
22	1RV22CY022	C A INDRASENA NAIDU	caindrasenan.cy22@rvce.edu.in	Travel vlogs	Essays
23	1RV22CY023	DEEKSHITH V	deekshithv.cy22@rvce.edu.in	travel vlogs	essays
24	1RV22CY024	DHANYASHREE KRISHNAMURT	dhanyashreek.cy22@rvce.edu.in	video on grammar topic	essays
25	1RV22CY025	DHANYASHREE R	dhanyashreer.cy22@rvce.edu.in	Video on grammar topic	Essays
26	1RV22CY026	DHARMIK J RAI	dharmikjrai.cy22@rvce.edu.in	Videos on grammar topics	Essays
27	1RV22CY027	H ETHINDHAR	hethindhar.cy22@rvce.edu.in	Video on grammar topic	Essays
28	1RV22CY028	JAYANTH SHARMA	jayanthsharma.cy22@rvce.edu.in	Video on grammar topic	Essays

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: CIVIL ENGG., PROGRAM FOR THE YEAR 2022 - 2023					
29	1RV22CY029	JEEL SHAH	jeelshah.cy22@rvce.edu.in	Debate	Poetry Writing
30	1RV22CY030	JIGYASA AGRAWAL	jigyasaagrawal.cy22@rvce.edu.in	Video on grammar topic	Blog
31	1RV22CY031	JOEL STEPHEN MATHEW	jstephenmathew.cy22@rvce.edu.in	video on grammar topic	essays
32	1RV22CY032	KARTHIK NAGESH DEVADIGA	karthiknageshd.cy22@rvce.edu.in	Video on grammar topic	Essays
33	1RV22CY033	KHUSHAL A	khushala.cy22@rvce.edu.in	Video on grammar topic	essay
34	1RV22CY034	KISHAN KARTHIK S	kishanks.cy22@rvce.edu.in	Travel vlog	Blog
35	1RV22CY035	KISHORE A	kishorea.cy22@rvce.edu.in	Video on grammar topic	Essay
36	1RV22CY036	MAHAMMAD RIZWAN	mahammadrizwan.cy22@rvce.edu.in	Video on grammar topic	Essay
37	1RV22CY037	MALLIKARJUN M	mallikarjunm.cy22@rvce.edu.in	vedios on grammar topics	Essay
38	1RV22CY038	MAYANK PRITWANI	mayankpritwani.cy22@rvce.edu.in	Video on grammar topic	Essays
39	1RV22CY039	MEHAR KULKARNI	meharkulkarni.cy22@rvce.edu.in	Video on grammar topic	Crossword
40	1RV22CY040	MERYN BABU	merynbabu.cy22@rvce.edu.in	Video on grammar topic	Essays
41	1RV22CY041	MOHAMMED AMMAR MANSOOI	mdammarmansoor.cy22@rvce.edu.in	Video on grammar topic	Essay
42	1RV22CY042	NIVEDITHA NALABOLU	nivedithan.cy22@rvce.edu.in	Video on grammar Topic	Essay
43	1RV22CY043	PARAMESH N T	parameshnt.cy22@rvce.edu.in	videos on grammar topics	Essay
44	1RV22CY044	PRABU JAYANT	prabujayant.cy22@rvce.edu.in	Videos on grammar topic	Essay
45	1RV22CY045	PRAJWAL U	prajwalu.cy22@rvce.edu.in	Videos on grammar topic	Essay
46	1RV22CY046	PRATHICA SHETTY M	prathicasm.cy22@rvce.edu.in	Videos on grammar topic	Technical magazine
47	1RV22CY047	RONIT RANJAN	ronitranjan.cy22@rvce.edu.in	videos on grammar topics	Essay
48	1RV22CY048	S JEEVAN	sjeevan.cy22@rvce.edu.in	Videos on grammar topic	Essay
49	1RV22CY049	SAGARI ARAVIND	sagariaravind.cy22@rvce.edu.in	Videos on grammar topic	Essay
50	1RV22CY050	SANTHOSH KUMAR L	santhoshkumarl.cy22@rvce.edu.in	Travel Vlog	Essay
51	1RV22CY051	SARTHAK GUPTA	sarthakgupta.cy22@rvce.edu.in	Videos on grammar topic	Essay
52	1RV22CY052	SATHWIK T S	sathwikts.cy22@rvce.edu.in	video on grammar topic	essay
53	1RV22CY053	SUDHANSHU SHEKHAR	sudhanshus.cy22@rvce.edu.in	Videos on grammar topic	Essay
54	1RV22CY054	SUHAN M K	suhanmk.cy22@rvce.edu.in	travel vlog	Essay
55	1RV22CY055	SURYANSH KUMAR	suryanshkumar.cy22@rvce.edu.in	debate	poetry writing
56	1RV22CY056	SWAR LODAYA	swarlodaya.cy22@rvce.edu.in	Debate	Essay
57	1RV22CY057	TANISHA AGARWAL	tanishaagarwal.cy22@rvce.edu.in	Video on Grammar Topics	Essay
58	1RV22CY058	TEJAS NESWI	tejasneswi.cy22@rvce.edu.in	Travel Vlog	Essays
59	1RV22CY059	VARSHITH Y	varshithy.cy22@rvce.edu.in	Standup comedy	Essays
60	1RV22CY060	VARUN AGARWAL	varunagarwal.cy22@rvce.edu.in	Video on grammer topic	Essay
61	1RV22CY061	VENKAT SREYAS YELISETTY	venkatsreyasy.cy22@rvce.edu.in	debate	crossword puzzles
62	1RV22CY062	YASHIKA PANJWANI	yashikap.cy22@rvce.edu.in	Videos on grammer topics	Essays
63	1RV22CY063	YUVRAJ KUMAR	yuvrajkumar.cy22@rvce.edu.in	Video on grammar topics	Blog

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PROVISIONAL CANDIDATE LIST OF 2 SEMESTER B.E.: COMPUTER SCIENCE & ENGG., (DATA

SL NO	USN	NAME	STUDENT RVCE EMAIL ID		
1	1RV22CD001	ABHAY G K	abhaygk.cd22@rvce.edu.in	Pick and Speak	Essay
2	1RV22CD002	ABHAY V GHODKE	abhayvghodke.cd22@rvce.edu.in	Videos on Grammar topic	Essay
3	1RV22CD003	AKANKSHA L	akankshal.cd22@rvce.edu.in	Videos on Grammar Topics	Essay
4	1RV22CD004	ANAND PATIL	anandpatil.cd22@rvce.edu.in	Video on Grammar topics	Essay
5	1RV22CD005	ANANT TEWARI	ananttewari.cd22@rvce.edu.in	Debate	Poetry.
6	1RV22CD006	ANAUM FATHIMA M R	anaumfathimamr.cd22@rvce.edu.in	VIdeos on Grammer Topics	Essay
7	1RV22CD007	ANISH ANAND	anishanand.cd22@rvce.edu.in	Videos on Grammar Topics	Essay
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9	1RV22CD009	ANUBHAV PANIGRAHI	anubhavp.cd22@rvce.edu.in	Videos on Grammar topics	Essay
10	1RV22CD010	ANUMANENI VENKAT BALA	anumanenivb.cd22@rvce.edu.in	Videos on Grammar topics	Essay
11	1RV22CD011	ARAVIND V	aravindv.cd22@rvce.edu.in	Videos on Grammar topics	Essay
12	1RV22CD012	AYUSH OJHA	ayushojha.cd22@rvce.edu.in	Videos on Grammar Topic	Essay
13	1RV22CD013	D AMOGH KARANTH	damoghkaranth.cd22@rvce.edu.in	Videos on Grammar topic	Essay
14	1RV22CD014	DEEPA C RATHOD	deepacrathod.cd22@rvce.edu.in	Videos on Grammar topics	Essay
15	1RV22CD015	DEVANSH TOMAR	devanshtomar.cd22@rvce.edu.in	pick and speak	poem
16	1RV22CD016	DHANUSH HOLAGUNDI	dhanushh.cd22@rvce.edu.in	Videos on grammar topics	Essay
17	1RV22CD017	DHRUVA B A	dhruvaba.cd22@rvce.edu.in	videos on grammar	crossword
18	1RV22CD018	E LOKESHVAR	elokeshvar.cd22@rvce.edu.in	Videos on Grammar Topics	Essay
19	1RV22CD019	ERIN SANU	erinsanu.cd22@rvce.edu.in	Videos in Grammar topics	Crossword
20	1RV22CD020	GUDURU DINESH	gudurudinesh.cd22@rvce.edu.in	Videos on Grammer topics	Crossword
21	1RV22CD021	KARTIK RAO	kartikrao.cd22@rvce.edu.in	Video on grammar topic	Essay
22	1RV22CD022	KIRAN R AITHAL	kiranraithal.cd22@rvce.edu.in	Videos on grammar topics	Essay
23	1RV22CD023	KRITIK JAIN	kritikjain.cd22@rvce.edu.in	videos on grammer topics	essay
24	1RV22CD024	KUMMARI MARUTHI SAI SID	kmssiddharth.cd22@rvce.edu.in	Travel Vlog	Essay
25	1RV22CD025	KUPPILI RAJA SATYA ALPAN	krsatyaalpana.cd22@rvce.edu.in	Videos on Grammar topics	Essay
26	1RV22CD026	L R MOURYA	lrmourya.cd22@rvce.edu.in	Videos on Grammar topics	Essay
27	1RV22CD027	LIKHITH A	likhitha.cd22@rvce.edu.in	vedioes on grammer topics	crossword puzzle
28	1RV22CD028	MEDHA MAHESH MUMMIG	medhamaheshm.cd22@rvce.edu.in	Videos on grammar topics	crossword
29	1RV22CD029	MUKUND VERMA	mukundverma.cd22@rvce.edu.in	Videos on Grammar Topics	Crossword
30	1RV22CD030	MULA SOHAN	mulasohan.cd22@rvce.edu.in	Videos on Grammar Topics	ESSAY
31	1RV22CD031	MURGESH DODDAGOUDAR	murgeshd.cd22@rvce.edu.in	Videos on Grammar topic	Essay
32	1RV22CD032	NALLA YASHASWINI	nyashaswini.cd22@rvce.edu.in		

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33	1RV22CD033	NAMRATHA H J	namrathahj.cd22@rvce.edu.in	Videos on Grammar Topic	Poem Writing
34	1RV22CD034	NEIL SHARMA	neilsharma.cd22@rvce.edu.in	Videos on Grammar Toppic	Crossword
35	1RV22CD035	ONEEKA TANEJA	oneekataneja.cd22@rvce.edu.in	Videos on Grammar topics	Essay
36	1RV22CD036	PAVAN S	pavans.cd22@rvce.edu.in	Videos on Grammar topics	Essays
37	1RV22CD037	PEDDIREDDY SATHVIKA RED	psathvikareddy.cd22@rvce.edu.in		
38	1RV22CD038	PRACHI SINHA	prachisinha.cd22@rvce.edu.in	Videos on Grammar topics	Technical magazine
39	1RV22CD039	PRAJNA S P	prajnasp.cd22@rvce.edu.in	Videos on Grammar topics	Essay
40	1RV22CD040	PRAKHAR JAIN	prakharjain.cd22@rvce.edu.in	Videos on Grammar topics	Essay
41	1RV22CD041	PRANAV S KAMESHWAR	pranavsk.cd22@rvce.edu.in	Videos on Grammar topics	Essay writing
42	1RV22CD042	PRASIDDHA BHAT	prasiddhabhat.cd22@rvce.edu.in	Videos on Grammar topics	Crossword
43	1RV22CD043	PRATIK SHYAM IJANTKAR	pratikshyami.cd22@rvce.edu.in	Videos on Grammar topics	Essay
44	1RV22CD044	PRATIKSHA MAJUMDAR	pratiksham.cd22@rvce.edu.in	Poetry writing	Essay
45	1RV22CD045	PRIANSHU NATH	prianshunath.cd22@rvce.edu.in	Videos on grammar topics	Travel Vlogs
46	1RV22CD046	PRITHIVIRAJ N	prithivirajn.cd22@rvce.edu.in	videos on grammar topics	Essay
47	1RV22CD047	PUNEETH B	puneethb.cd22@rvce.edu.in	Video on grammar topics	Essay
48	1RV22CD048	ROHAN GANESH	rohanganesh.cd22@rvce.edu.in	Debate	Essay
49	1RV22CD049	ROHAN KURUP	rohankurup.cd22@rvce.edu.in	Videos on grammar topic	Essay
50	1RV22CD050	SAKSHAM SINGH	sakshamsingh.cd22@rvce.edu.in	Video on grammar topics	Essay
51	1RV22CD051	SAMARJITH D	samarjithd.cd22@rvce.edu.in	Video on grammar topics	Essay
52	1RV22CD052	SARVAGYA KUMAR	sarvagyakumar.cd22@rvce.edu.in	video on grammer topics	essay
53	1RV22CD053	SHARVARY H H	sharvaryhh.cd22@rvce.edu.in		
54	1RV22CD054	SHASHIDHAR SARVI	shashidhars.cd22@rvce.edu.in	vedio on grammar topic	Essay
55	1RV22CD055	SHIVANI SINGH	shivanisingh.cd22@rvce.edu.in	Video on grammar topic	Crossword
56	1RV22CD056	SHRIDHAR BHAT	shridharbhat.cd22@rvce.edu.in	video on grammar topics	Essay
57	1RV22CD057	SHUBHAM GARG	shubhamgarg.cd22@rvce.edu.in	Video on Grammar topics	Essay
58	1RV22CD058	SUPREET	supreet.cd22@rvce.edu.in	Video on grammar topics	Essays
59	1RV22CD059	SWARA S GINGADE	swarasgingade.cd22@rvce.edu.in	videos on grammar topics	essay
60	1RV22CD060	T KEERTHI AMUDAA	tkeerthiamudaa.cd22@rvce.edu.in	Videos on grammar topics	Crossword
61	1RV22CD061	TARUN H S	tarunhs.cd22@rvce.edu.in	Videos on grammar topics	ESSAY
62	1RV22CD062	VIPUL S	vipuls.cd22@rvce.edu.in	Videos on grammar topics	Essay
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Report on Teaching, Learning, and Evaluation Using ICT Tools

SUPPORTING DOCUMENTS FOR
NAAC SELF STUDY REPORT (SSR)
(2ND CYCLE)
PERIOD: 2018-2023

TEACHING, LEARNING AND EVALUATION	TEACHING LEARNING PROCESS
METRIC 2.3.1	Students centric methods such as experiential learning, participative learning & problem solving methodologies for enhancing teaching learning experiences using ICT tools

Information and Communication Technology (ICT) tools have significantly transformed engineering education, enhancing both teaching and learning processes. Here are several key ICT tools commonly used in engineering education:

1. **Simulation Software**: Simulation software allows students to virtually experiment with complex engineering concepts and systems. Tools like MATLAB, Simulink, ANSYS, and COMSOL enable students to model and simulate various engineering phenomena, helping them understand theoretical concepts and their practical applications.
2. **Computer-Aided Design (CAD) Software**: CAD software such as AutoCAD, SolidWorks, and CATIA facilitate the design and drafting of engineering projects. These tools enable students to create detailed 2D

and 3D models, analyze designs, and simulate real-world conditions, fostering creativity and problem-solving skills.

3. **Virtual Laboratories**: Virtual lab platforms provide students with access to laboratory experiments and demonstrations through digital interfaces. These platforms offer a wide range of experiments across different engineering disciplines, allowing students to practice skills, conduct experiments remotely, and visualize complex concepts.
4. **Online Learning Platforms**: Online learning platforms like Coursera, edX, and Khan Academy offer a plethora of engineering courses taught by experts from around the world. These platforms provide flexible learning options, including video lectures, interactive quizzes, and discussion forums, catering to diverse learning styles and preferences.
5. **Learning Management Systems (LMS)**: LMS such as Moodle, Blackboard, and Canvas serve as centralized platforms for course management and content delivery. They enable instructors to organize course materials, distribute assignments, facilitate discussions, and track student progress, promoting effective communication and collaboration in engineering education.
6. **Collaborative Tools**: Collaborative tools like Google Workspace (formerly G Suite), Microsoft Teams, and Slack facilitate communication and collaboration among students and instructors. These platforms offer features such as document sharing, real-time editing, video conferencing, and messaging, fostering teamwork and peer learning in engineering projects and assignments.
7. **Augmented Reality (AR) and Virtual Reality (VR)**: AR and VR technologies provide immersive learning experiences by overlaying digital information onto the real world or creating entirely virtual environments. In engineering education, AR and VR applications allow students to visualize complex systems, explore interactive simulations, and engage in hands-on training, enhancing their understanding and retention of engineering concepts.
8. **Online Resources and Open Educational Resources (OER)**: Various online resources, including textbooks, lecture notes, tutorials, and research papers, are freely available to students and educators. OER platforms like OpenStax and MIT OpenCourseWare offer high-quality educational materials that can supplement traditional classroom instruction, enriching the learning experience in engineering education.

By integrating these ICT tools into engineering education, institutions can create dynamic and engaging learning environments that prepare students for the challenges of the rapidly evolving engineering industry.

In RVCE - Center for Education and Digital Learning Research (CEDLR) center to enhance the teaching and learning process.

VISION of the CEDLR:

Transformation of education and learning through the adoption of digital initiatives to enhance learnability and research in engineering education.

MISSION of the CEDLR

- Leverage technological advancements in education.
- Promote ethical emerging inclusive instructional technologies to transform education.
- Synergize digital research to strengthen the teaching-learning process.
- Facilitate opportunities to integrate various facets of education.

OBJECTIVES of the CEDLR

- To enhance Cognitive abilities of students in Engineering Education.
- To adopt advanced digital technology to enhance learnability of students.
- To formulate strategies and models to integrate modern ICT tools in class rooms along with other teaching-Learning Strategies.
- To inculcate ethical practices for use of ICT among the faculty.
- To develop course content and implement virtual lab for e-learning.
- To Conduct Training Programs on regular basis for students and staff.

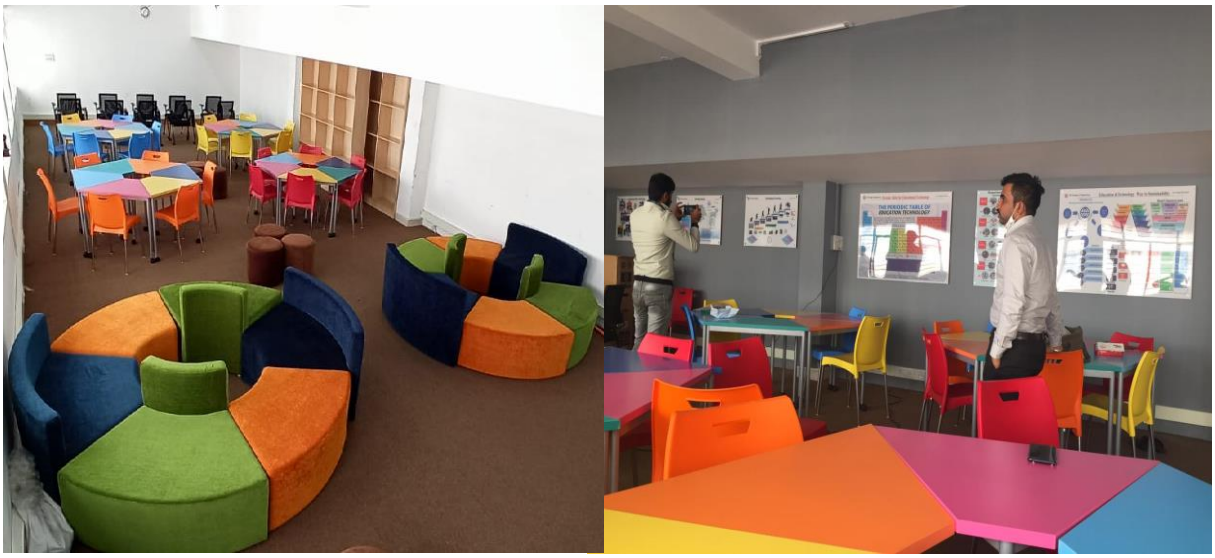
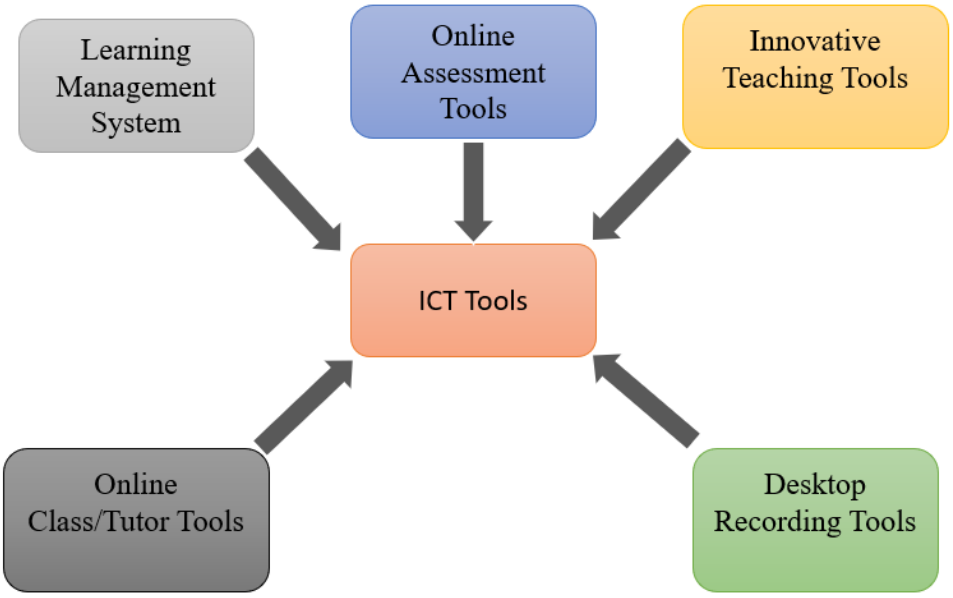


Figure: CEDLR Centre

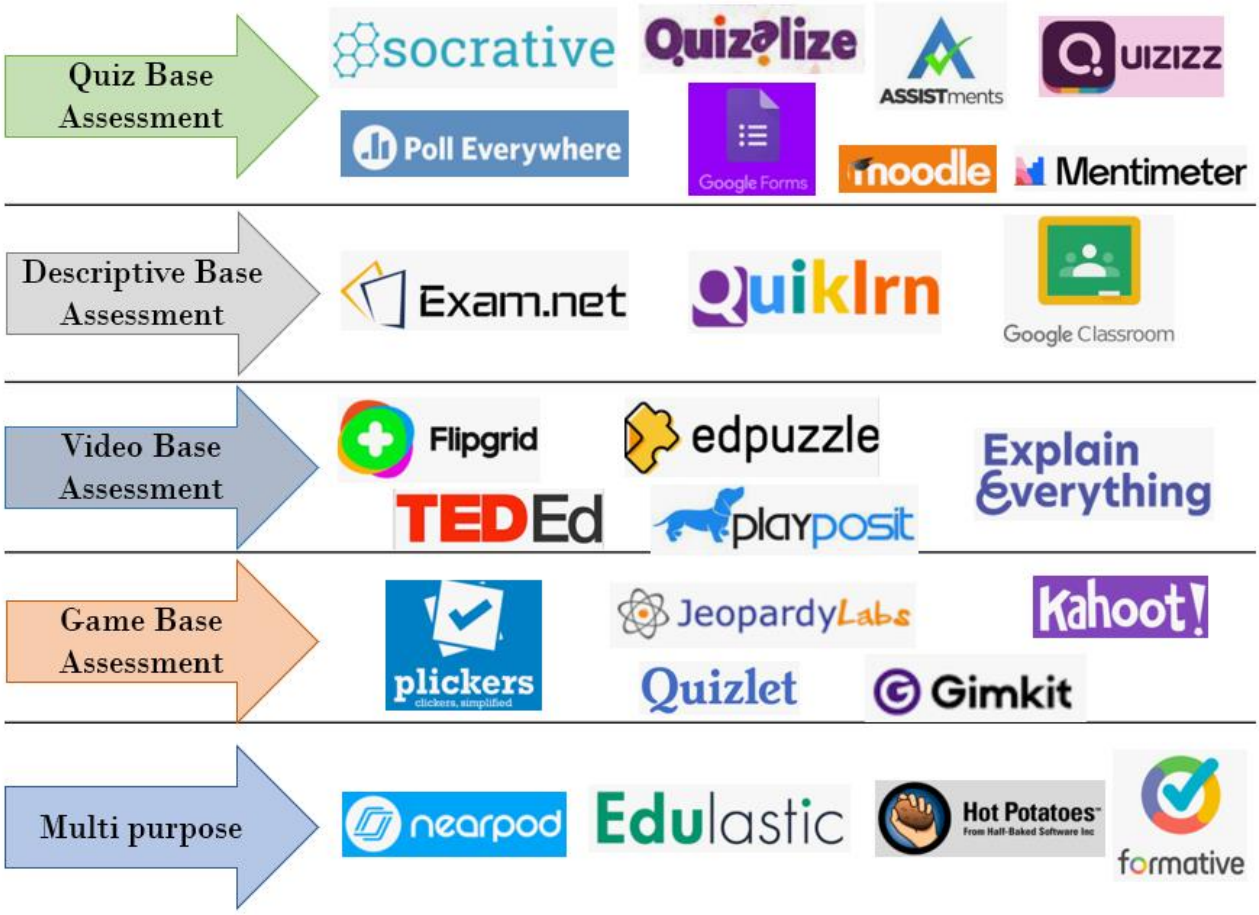
ICT Tools usage in RVCE



Digital Technologies usage in Campus

Online class conduction Tools	GoToMeeting, The New Google Hangouts Meet, Cisco webex, BlueJeans, zoom
Learning Management Tools	Google Sites, easyclass, canvas, WordPress
Screen Recorders	SCREENCAST MATIC, Debut Video Capture Software, Active Presenter, CamStudio™ OPEN SOURCE Screen Recording Software
Innovative Teaching Tools	JeopardyLabs, thinglink., TEDEd, plickers, YouTube
Online Assessment Tools	Google FORMS, moodle, Quibblo one world, many answers, socrative, QuikIrn

Online Assessment Tools for Quiz, Test and Assignment



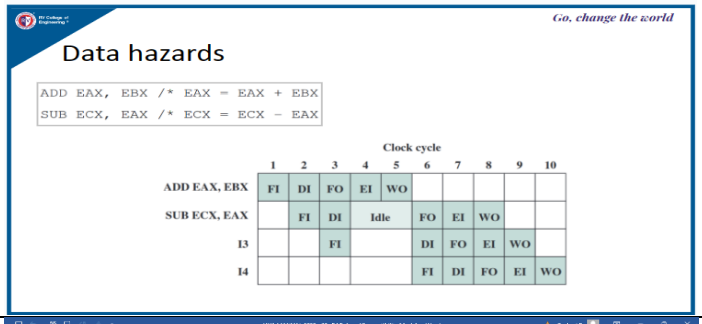
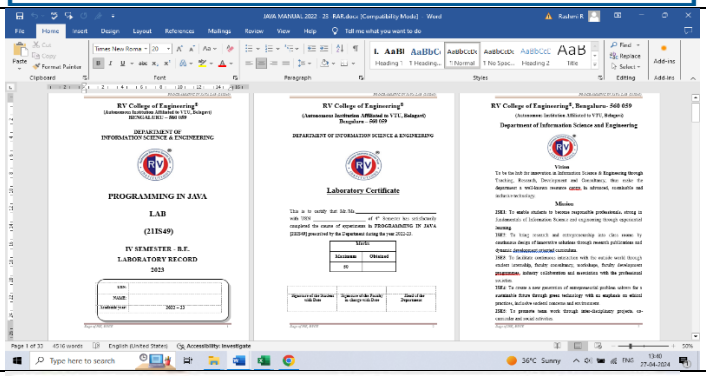
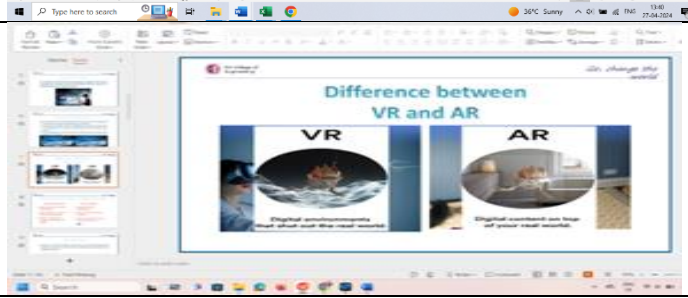
In the following sections, a few departments ICT usage details are mentioned.

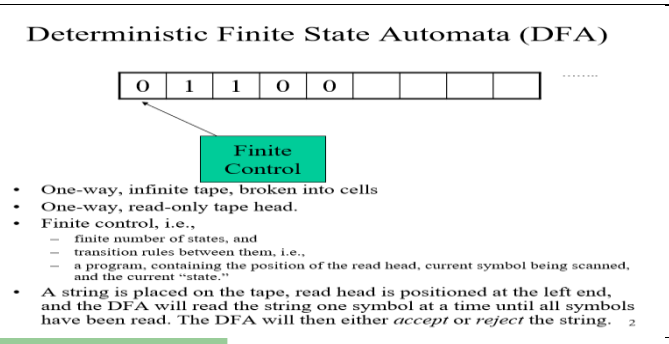
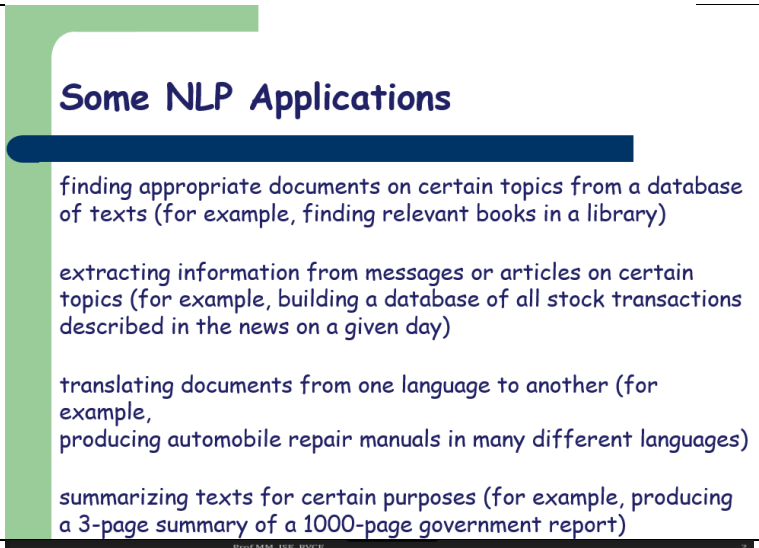
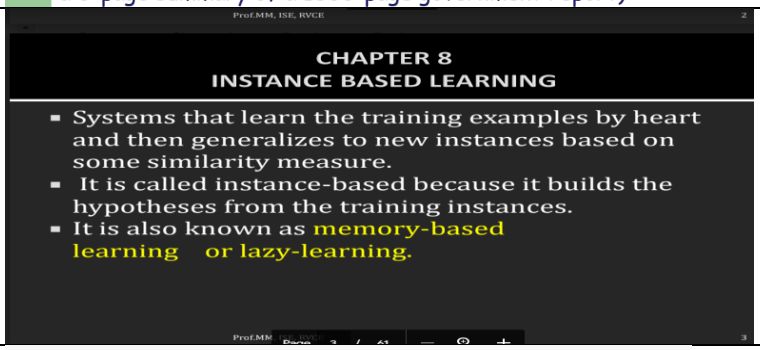
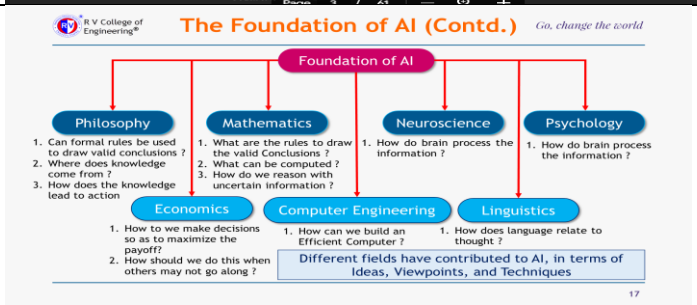
INFORMATION SCIENCE & ENGINEERING

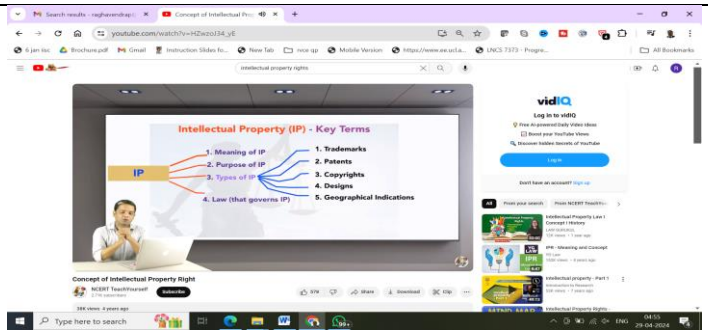
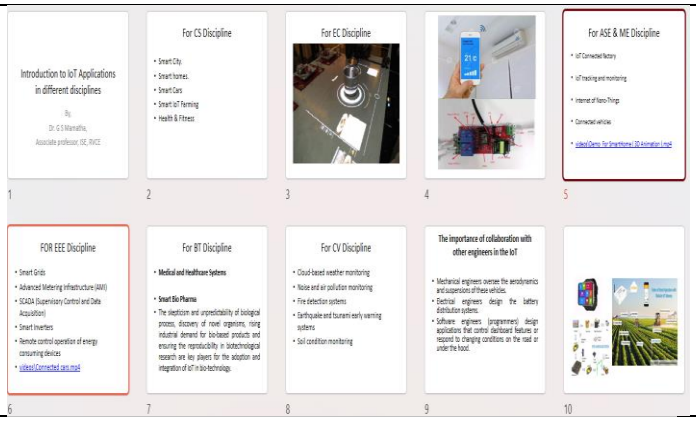
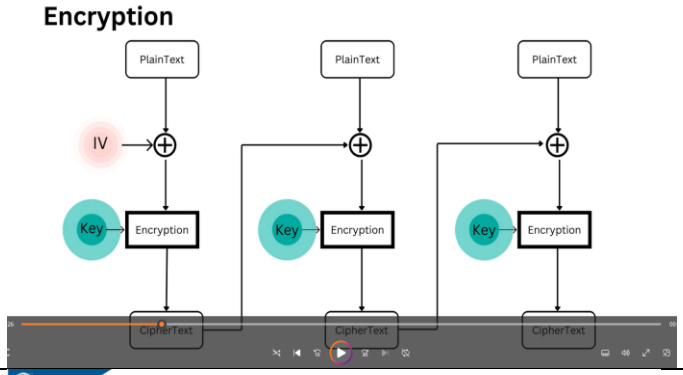
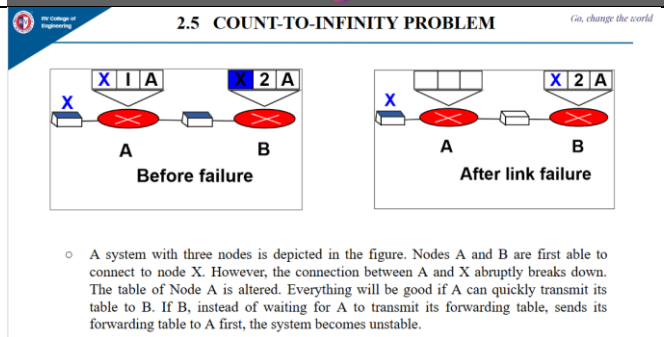
1. Teaching with ICT Tools:

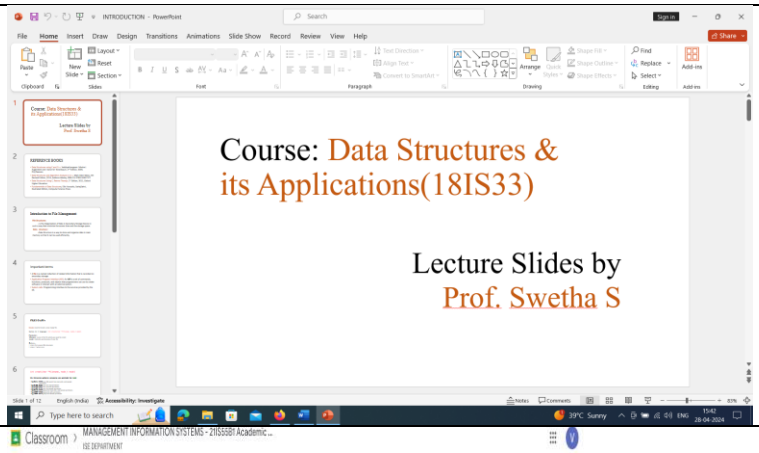
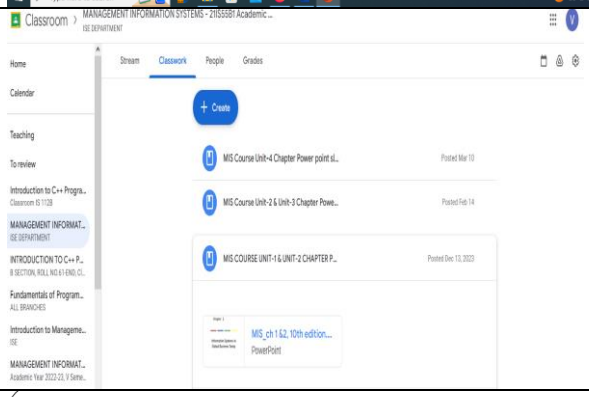
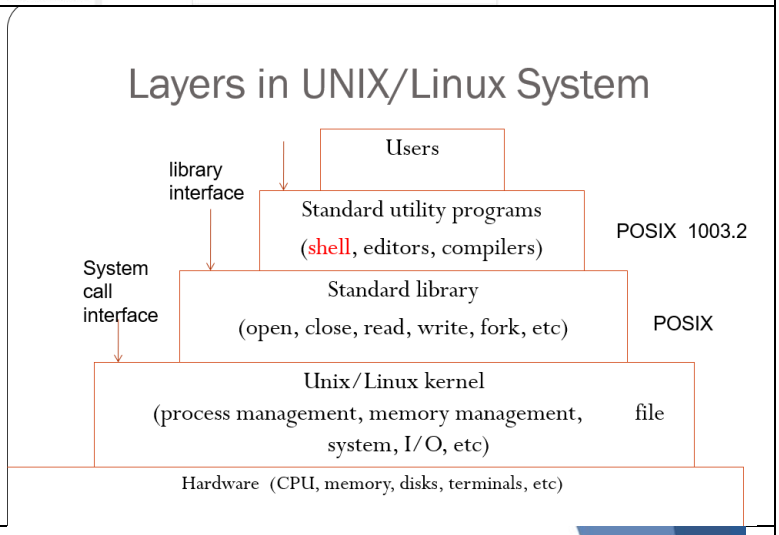
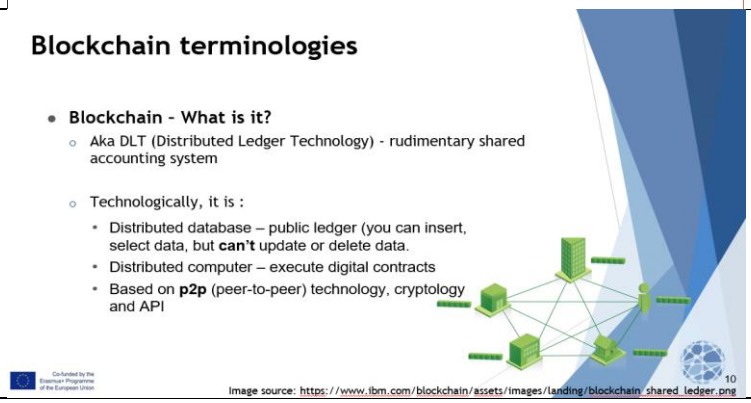
ICT tools offer educators a plethora of opportunities to engage students and make learning more interactive and effective. Some common ICT tools used for teaching include:

- ***Presentation Software:*** Platforms like Microsoft PowerPoint, Google Slides, or Prezi enable teachers to create visually appealing presentations to deliver content in an organized and engaging manner.

Sl.No	Name of the Faculty	*Presentation Software used*	Sample Screen shot of any one course
1.	Dr. Anala M R	Microsoft PowerPoint	
2.	Rashmi R	Microsoft Word, PowerPoint Intellij IDE	
3	Dr. Ashwini K B	Microsoft PowerPoint	

4	Poornima Kulkarni	Microsoft PowerPoint	
5	B M Sagar	Microsoft Powerpoint	
6	Merin Meleet	Microsoft Powerpoint	
7	Raghavendra Prasad S G	Microsoft PowerPoint	

8	Raghavendra Prasad S G	Lecture Video	 Intellectual Property Rights and Entrepreneurship -18HSI51
9	Dr G S Mamatha	Microsoft PowerPoint, Canva	
			
10	Sushmitha N	Microsoft PowerPoint	

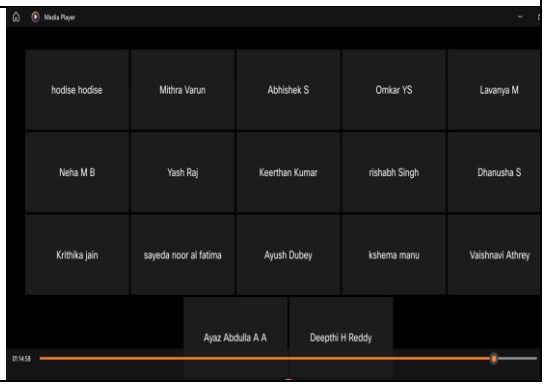
11	Swetha S	Microsoft PowerPoint	
12	Dr. Vanishree K	Microsoft PowerPoint, Google Slides	
13	B K Srinivas	Microsoft Powerpoint	
14	Dr.Padmashree T	Microsoft PowerPoint	

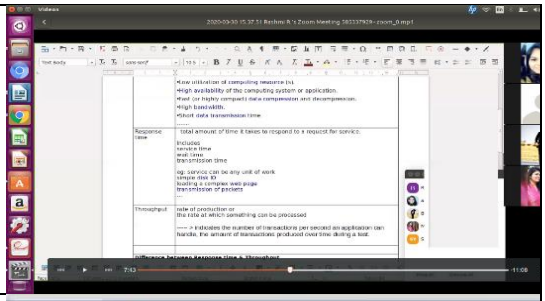
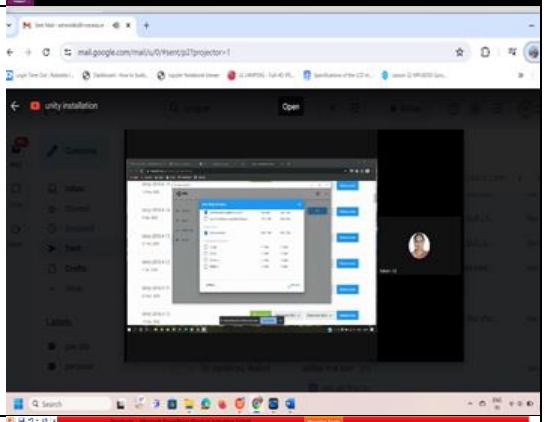
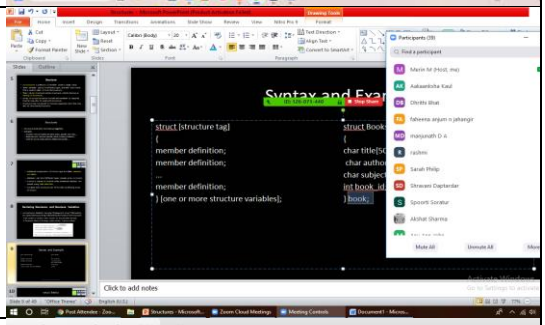
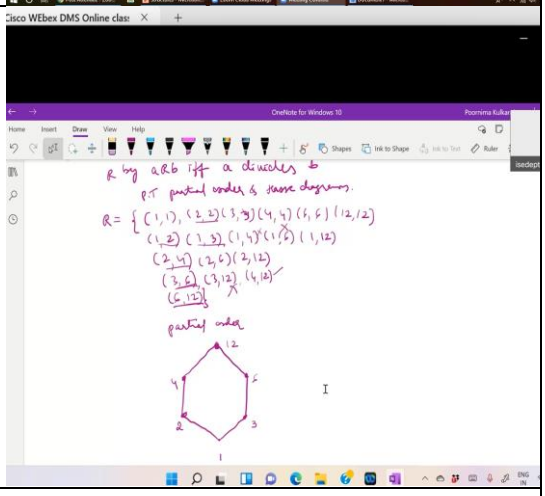
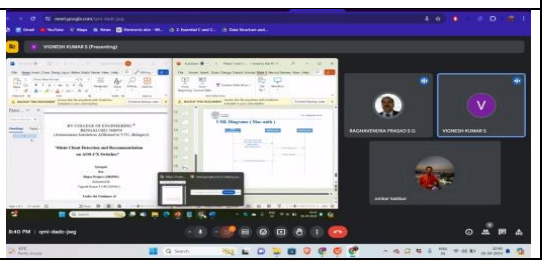
- ***Interactive Whiteboards:*** Interactive whiteboards facilitate dynamic teaching by allowing educators to display multimedia content,

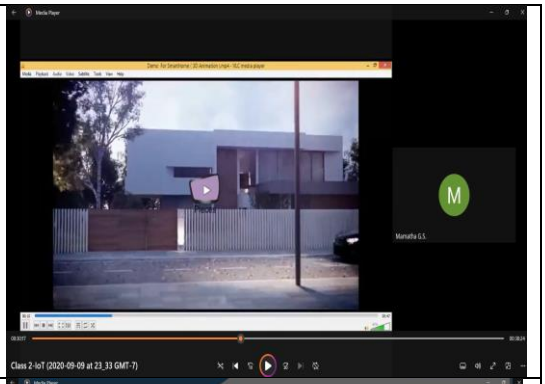
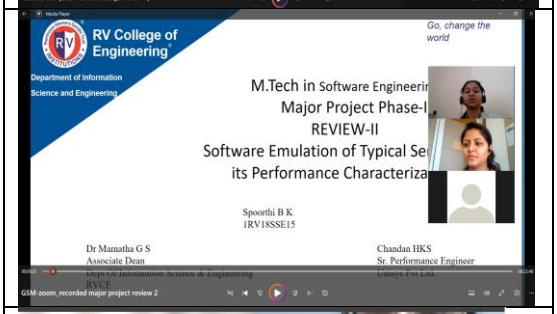
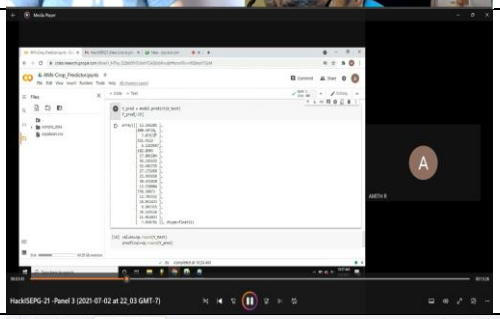
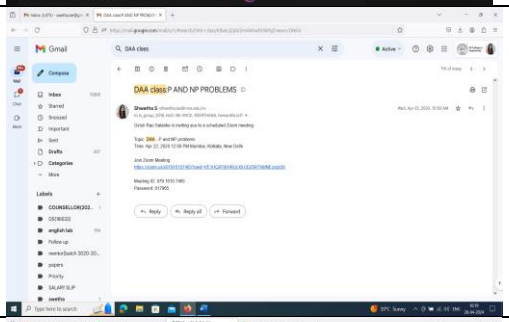
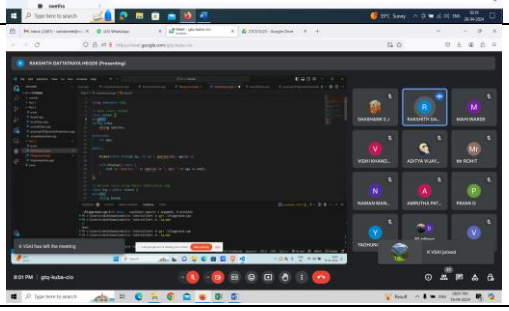
annotate, and interact with digital materials in real-time, fostering active participation among students.

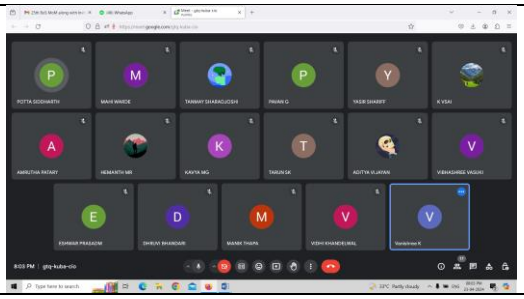
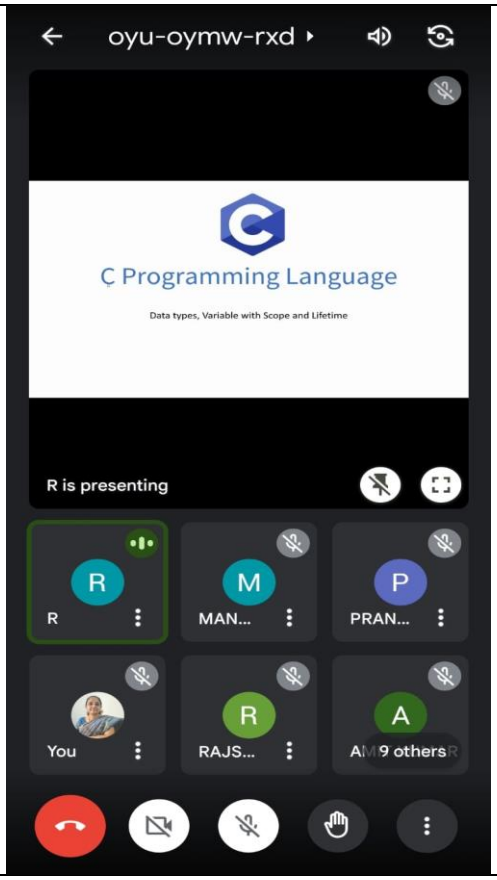
Sl No	No of Interactive Boards in the Department	Specifications of the whiteboard	Image of the whiteboard (smart board)	List the applications, faculties have explored (Like for annotation, real time interaction etc..)
1	06 (Interactive Smart Boards)	MAXHUB smart interactive display E7520E 75" 4K infrared touch screen with android 11 / 4GB / 32GB ROM / 15 11th Gen processor 8GB / 128GB SSD 5years warranty with free UC W20 web camera		Used it for display (PPT, Video). Smart board was used to annotate while solving application oriented problems

- **Video Conferencing:** Tools such as Zoom, Microsoft Teams, or Google Meet have become indispensable for remote or hybrid learning scenarios, enabling live virtual classes, guest lectures, and collaborative projects.

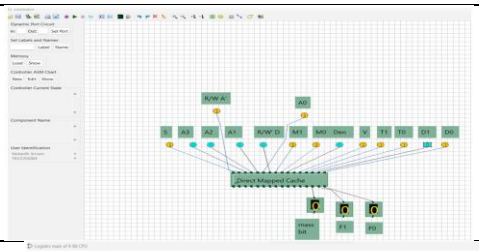
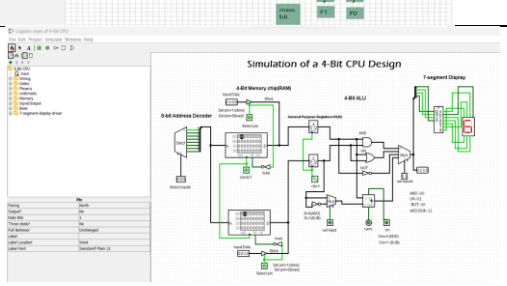
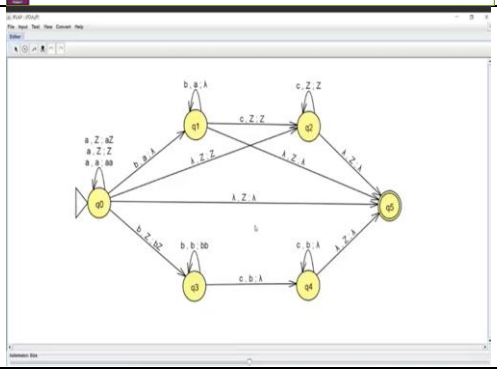
Sl. No	Video Conference tool name	Purpose of the usage	Faculty Name	Photos of the event
1	Cisco webex	Student Training	Dr Anala M R	
2	Microsoft teams	Project Discussion		
3	Google meet	Digital Design and Computer Organization extra classs		

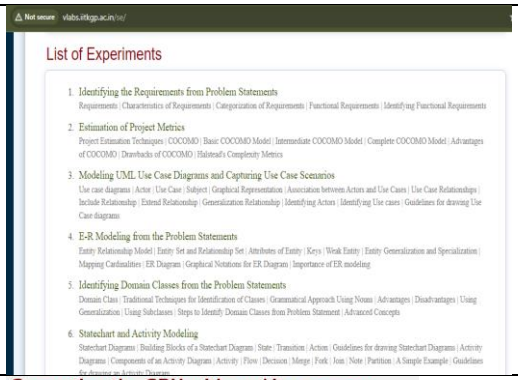
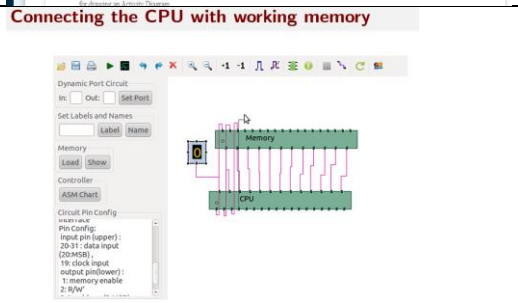
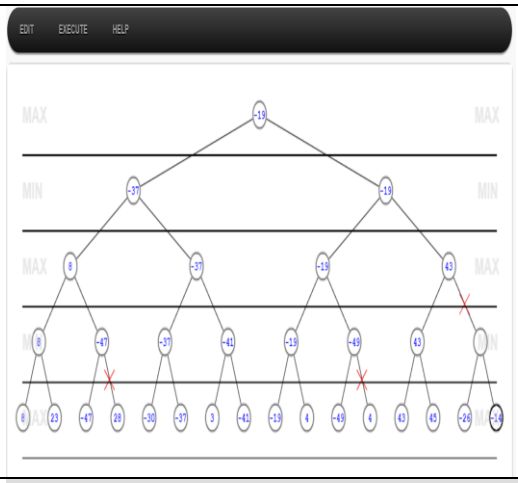
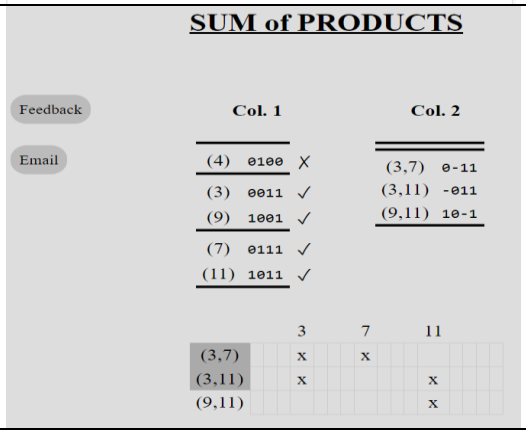
4	ZOOM	Online Classes conducted for CSPA	Rashmi R	
5	Google meet	To install Unity	Dr. Ashwini K B	
6	Google Meet, Zoom Meet	Live classes	Merin Meleet	
7	Cisco WebEx Meeting	Online class held during COVID	Poornima Kulkarni	
8	Google meet	Course delivery	B M Sagar	
9	Google Meet	Conduction of online class / lab / online project demo	Raghavendra Prasad S G	

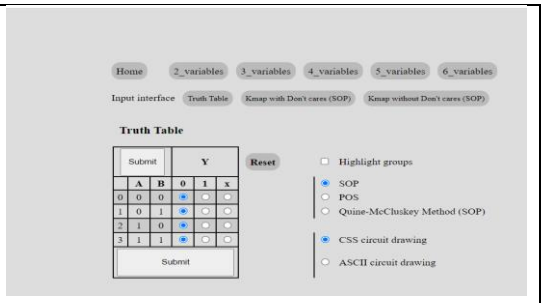
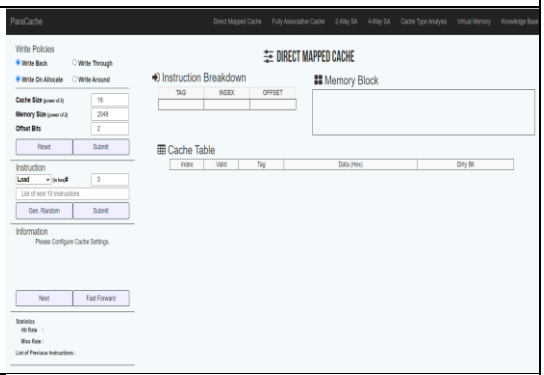
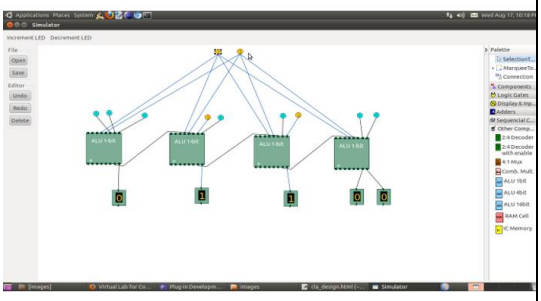
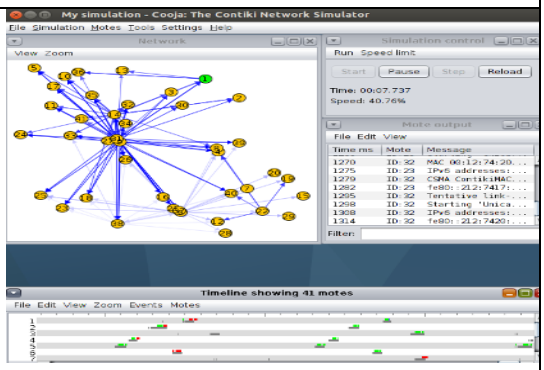
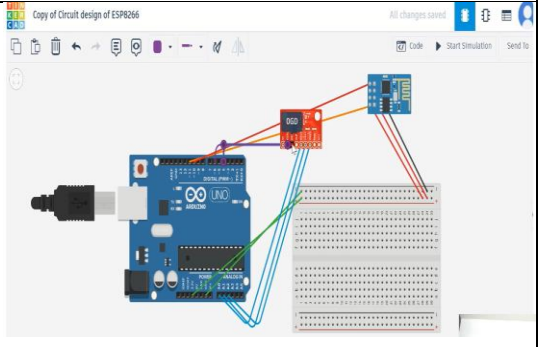
10	Webex, Zoom, Google Meet	Classroom, Project Review, Assignmemt evaluation, Industry meetings	Dr. G S Mamatha	   
11	Google meet and Zoom, Cisco Webex	Virtual classes, Academic assignments assessments	Swetha S	
12	Google Meet	Tutorial Class conduction for the course Introduction to C++ Programming	Dr. Vanishree K	

13	Google meet	Class teaching delivery for the course Introduction to C++ Programming		
14	Google meet	Course delivery	B K Srinivas	-
15	Cisco webex	Student Training	Dr Padmashree T	
16	Zoom Meetings	Project Discussion		
17	Google meet	Coding Club Activities		

- ***Simulations and Virtual Labs:*** ICT tools offer simulated environments for students to conduct experiments or explore concepts that may be difficult or dangerous to replicate in a physical setting, enhancing experiential learning.

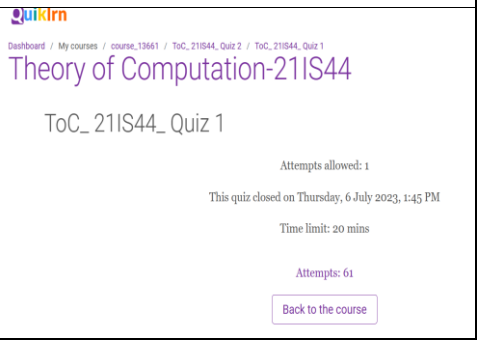
Sl. No	***Name of Simulations and Virtual Labs***	**Name of the Course**	**Faculty Name**	**Photos of the Activity**
1	IIT Kharagpur Virtual Lab for computer organization	Digital design and Computer Organization	Dr Anala M R	
2	Logisim(4-bit CPU Design)	Logic Design and Computer Organization		
3	VLABS	Programming in Java	Rashmi R	
4	JFLAP	Theory of Computation	Poornima Kulkarni	
5	NLTK tool Kit	Natural Language processing	B M Sagar	

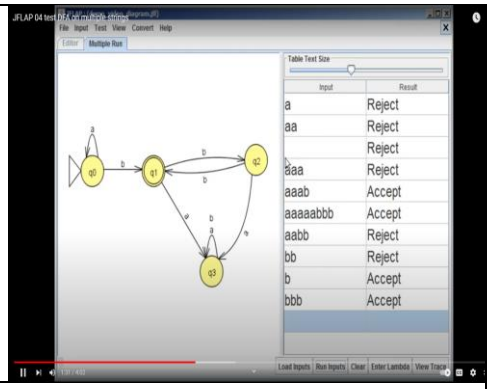
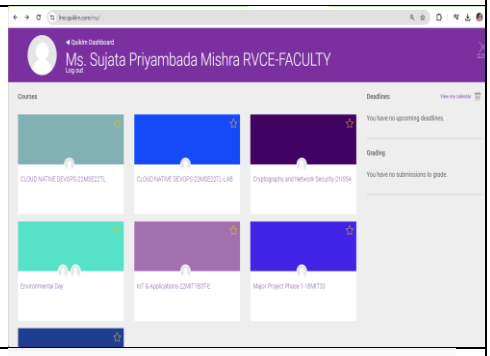
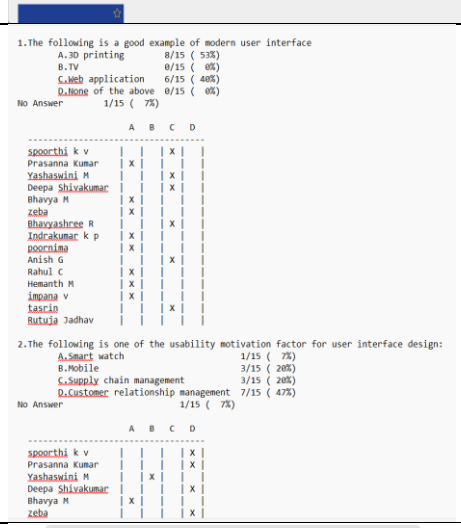
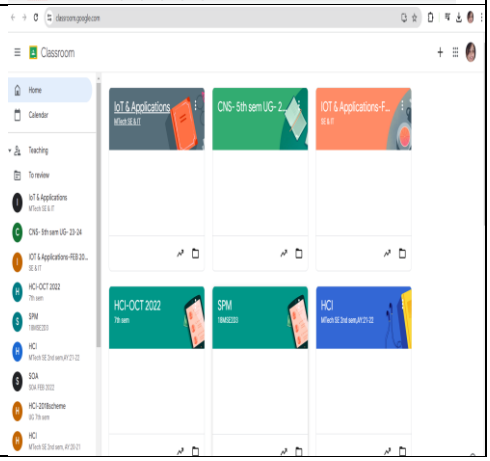
6	Virtual Labs by IIT Kharagpur	Software Engineering	Merin Meleet	
7	Logic Design and Computer Organization Virtual Lab http://vlabs.iitkgp.ac.in/coa/	Logic Design and Computer Organization – 18IS35	Raghavendra Prasad S G	
8	Minimax and Alpha-Beta Prunning simulator https://raphsilva.github.io/utilities/minimax_simulator/#	Artificial Intelligence and Machine Learning (21AI52)	Raghavendra Prasad S G	
9	Online Karnaugh map solver with circuit for up to 6 variables (http://www.32x8.com/index.html)	Logic Design and Computer Organization – 18IS35	Raghavendra Prasad S G	

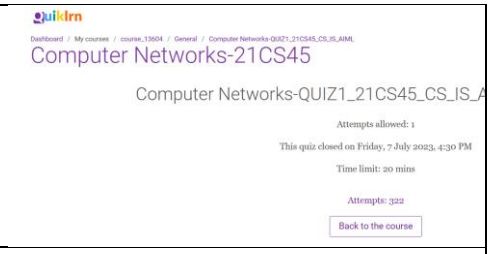
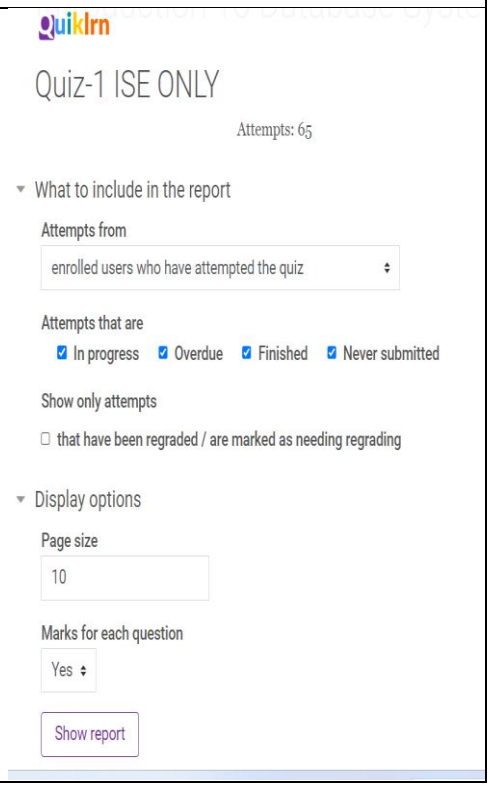
10	Kmap	LDCOA	G S Mamatha	
11	Paracache	LDCOA	G S Mamatha	
12	IITK VLab	LDCOA	G S Mamatha	**Screenshot of Design of 4 bit ALU:** 
13	Cooja simulator	IoT	G S Mamatha	
14	Cisco Packet Tracer - network simulation and visualization tool	Computer Networks	Sushmitha N	

15	Tinker CAD software	Programming in C	Dr. Vanishree K	-
16	Tinker CAD software	Introduction to C++ Programming		-
17	C++ Programming	Introduction to C++ Programming	B K Srinivas	-
18	CryptTool Online	Cryptography and network security	Dr.Padmashree T	

- ***Educational Apps and Software:*** There is a plethora of educational apps and software tailored to different subjects and age groups, providing interactive lessons, quizzes, and games to reinforce learning objectives.

Sl.No	***Name of Educational Apps and Software***	**Name of the Course**	**Faculty Name**	**Photos of the Activity**
1	Enterprise Architect	Programming In Java	Rashmi R	-
2	Quiklrn	Theory of Computation	Poornima Kulkarni	

3	JFLAP (software for experimenting with Finite Automata and formal languages)	Theory of Computation	Raghavendra Prasad S G	
4	Quiklrn	LDCOA	G S Mamatha	
5	Quiklrn	IoT, Cloud Computing	G S Mamatha	
6	Quiklrn	HCI, SOA, Cloud Native Development	G S Mamatha	
7	WebEx Polls	HCI	G S Mamatha	
8	Google Class room	HCI, IoT, CNS, CND	G S Mamatha	

9	Quiklrn	Computer Networks	Sushmitha N	
10	MatLab Software	Programming In C	Dr.Vanishree K	-
11	Tinker CAD	Programming In C		-
12	Dev C++	Introduction to C++ Programming	B K Srinivas	-
13	Quiklrn	Introduction to Databases	Dr.Padmashree T	

2. Learning with ICT Tools:

ICT tools empower students to take ownership of their learning journey and access educational resources beyond the confines of the classroom. Some ways in which ICT tools facilitate learning include:

- ***Online Resources:*** The internet provides a vast repository of educational materials such as e-books, articles, videos, and tutorials, enabling students to supplement their learning and explore topics at their own pace.

Sl. No	***Type of online resource***	**Name of the Course**	**Faculty Name**	**Online resource link**

1	e-books	Programming In Java	Rashmi R	www.e-booksdirectory.com
2	Online resources	Principles of Programming Using C		w3schools.com
3	Unity Hub -> Learn	Virtual Reality &Augmented Reality	Dr. Ashwini K B	https://learn.unity.com/project/introduction-to-visual-scripting
4	Quiklrn	Natural language Processing	B M Sagar	https://home.quiklrn.com
5	SWEBOK	Software Enginnering	Merin Meleet	https://www.computer.org/education/bodies-of-knowledge/software-engineering
6	e-books	Intellectual Property Rights and Entrepreneurship - 18HSI51	Raghavendra Prasad S G	chrome-extension://efaidnbmnnnibpcajpcglclefindmkaj/https://www.icsi.edu/media/webmodules/publications/9.4%20Intellectual%20Property%20Rights.pdf
7	videos			https://archive.nptel.ac.in/courses/110/105/110105139/
8	tutorials			https://www.wipo.int/about-ip/en/
9	Online Certification course			https://blp.ieee.org/intellectual-property-rights-ipr/
10	Articles			https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3217699/
11	Official website of Intellectual Property India			https://www.ipindia.gov.in/
12	Case studies			https://intellectual-property-helpdesk.ec.europa.eu/regional-helpdesks/india-ip-sme-helpdesk/india-case-studies_en
13	Docker & kubernetes	Cloud Native DevOps	G S Mamatha	https://www.docker.com/products/docker-desktop/
14	GitHub	Cloud Native DevOps	G S Mamatha	https://github.com/Mamathags/demo
15	Trello.com	SPM	G S Mamatha	https://trello.com/u/mamathags/boards

16	Archi	HCI	G S Mamatha	https://www.archimatetool.com/
17	ThingsSpeak Cloud	IoT	G S Mamatha	https://thingspeak.com/apps
18	ELK cloud	Cloud Computing	G S Mamatha	https://cloud.elastic.co/home
19	YouTube	CNS	G S Mamatha	https://cloud.elastic.co/home
20	VNC	IoT	G S Mamatha	https://www.realvnc.com/en/connect/download/viewer/ & https://www.realvnc.com/en/connect/download/server/
21	Putty	Crptography &Network Security, IoT	G S Mamatha	https://www.putty.org/
22	Rasa	SoA	G S Mamatha	https://rasa.com/
23	Coursera	The Bits and Bytes of Computer Networking	Sushmitha N	The Bits and Bytes of Computer Networking | Coursera
23	NPTEL and MIT Videos	Advanced Algorithms	Swetha S	https://ocw.mit.edu/courses/6-006-introduction-to-algorithms-spring-2020/ https://ocw.mit.edu/courses/6-854j-advanced-algorithms-fall-2008/ https://nptel.ac.in/courses/106104019
24	NPTEL and MIT Videos	DAA and DSA	Swetha S	https://ocw.mit.edu/courses/6-006-introduction-to-algorithms-spring-2008/ https://nptel.ac.in/courses/106102064
25	You tube videos	AA, DAA and DSA	Swetha S	https://www.youtube.com/c/DataStructuresbyGirishRaoSalanke
26	e-books	Programming In C	Dr. Vanishree K	www.e-booksdirectory.com
27	O=Online videos	Introduction to C++ Prograammi ng		Neso Academy Videos
28	Quiklrn	Introduction to C++ Programmin g	B K Srinivas	https://home.quiklrn.com

29	Web Links, Videos, Short case studies	Web Technology	Dr.Padmashree T	Online HTML Editor https://www.tutorialspoint.com/online_html_editor.php Online HTML, CSS and Java Script Editor https://www.w3schools.com/tryit/ Online Javascript Editor https://www.tutorialspoint.com/online_javascript_editor.php Online PHP Editor https://www.onlinegdb.com/online_php_interpreter AJAX Try it yourself https://www.w3schools.com/js/js_ajax_intro.asp

- ***E-Learning Platforms:*** Platforms like Quiklrn, google Sites, Moodle, Blackboard, youtube or Canvas offer a centralized hub for course materials, assignments, discussions, and assessments, fostering a collaborative and structured learning environment.

Sl. No	***Type of E-Learning Platforms & Purpose***	**Name of the Course**	**Faculty Name**	***E-Learning Platform* link**
1	Quicklrn	Programming In Java	Rashmi R	https://home.quiklrn.com/
2	Quicklrn	Principles of Programming Using C		
3	Youtube	Virtual Reality &Augmented Reality	Dr. Ashwini K B	https://www.youtube.com/results?search_query=third+person+controller+unity
4	Youtube	Theory of Computation	Poornima Kulkarni	https://youtube.com/playlist?list=PLEbnTDJUr_IdM___FmDFBJBz0zCsOFxfK&si=4eBlshGoRXmRMbiR
5	Google classroom	Operating System	Merin Meleet	https://classroom.google.com/u/0/c/NjQ1NTUwMjk5NDc3
6	Quiklrn	Intellectual Property Rights and Entrepreneur	Raghavendra Prasad S G	https://home.quiklrn.com/

		ship - 18HSI51		
7	Quiklrn	LDCOA, IoT, Cloud Computing, Cloud Native DevOps, Crptography &Network Security, HCI, SOA	G S Mamatha	https://quiklrn.com/user/
8	Google Classrrom	Logic Design & Computer Organization Architecture, IoT, Cloud Computing, Cloud Native DevOps, Crptography &Network Security, Human Computer Interaction, Service Oriented Architecture	G S Mamatha	https://classroom.google.com/c/NjY3Mjc3NDU3NDQ4 https://classroom.google.com/c/NjQzNzIwNDE2MTc0 https://classroom.google.com/c/NTU2MDkzMzg2ODAw https://classroom.google.com/c/NDc1NzQxMzU2NDgy https://classroom.google.com/c/NTQ3NzM5NDYxMTha https://classroom.google.com/c/NjI5NzU1NTk0OTda https://classroom.google.com/c/MzQ3NDg0MTYwNDE4
9	Youtube	Computer Networks	Sushmitha N	https://www.youtube.com/watch?v=J7XK2W_4e1E&list=PLGIdiM8CYBMr5-N6bBN9JoXf3JgH0vJz4
10	Quiklrn, Moodle, Blackboard, youtube	DAA and DSA	Swetha S	https://lms.quiklrn.com/course/view.php?id=16099

				https://www.youtube.com/c/DataStructuresbyGirishRaoSalanke
11	Quicklrn	Management Information Systems	Dr. Vanishree K	https://home.quiklrn.com/
12	Quicklrn	Programming In C		
13	Quicklrn	Introduction to C++ Programming		
14	Quiklrn	Introduction to C++ Programming	B K Srinivas	https://home.quiklrn.com
15	*QuickLrn, Online learning platforms*	Web Technology, Blockchain	Dr.Padmashree T	**Node.js** **1. https://www.udemy.com/topic/nodejs/free/** **2. https://www.coursera.org/learn/server-side-nodejs?ranMID=40328&ranEAID=JVFxdTr9V80&ranSiteID=JVFxdTr9V80-DlddMnfsyqw1OLFQTT0FbA&siteID=JVFxdTr9V80-DlddMnfsyqw1OLFQTT0FbA&utm_content=10&utm_medium=partners&utm_source=linkshare&utm_campaign=JVFxdTr9V80** **3. https://www.udemy.com/course/intro-to-node-js-express/?LSNPUBID=JVFxdTr9V80&ranEAID=JVFxdTr9V80&ranMID=39197&ranSiteID=JVFxdTr9V80-H5z7ZvaKNR2PNsWBsGi57w&utm_medium=udemyads&utm_source=aff-campaign**

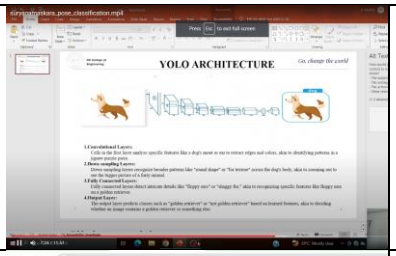
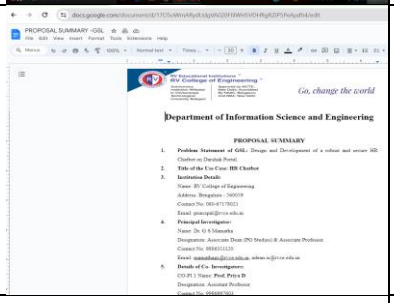
				4. https://www.w3schools.com/nodejs/ **AngularJS** 1. https://www.w3schools.com/angular/ 2. https://docs.angularjs.org/tutorial 3. https://www.tutorialspoint.com/angularjs/index.htm 4. https://www.javatpoint.com/angularjs-tutorial

- ***Adaptive Learning Systems:*** ICT tools leverage adaptive learning algorithms to personalize the learning experience based on each student's strengths, weaknesses, and learning pace, ensuring tailored instruction and optimal comprehension.

Sl.No	***Type of Adaptive Learning Systems***	**Name of the Course**	**Faculty Name**	***Outcome of ALS***
1	Quiklrn	LDCOA	G S Mamatha	Remote access enables study anytime

- ***Collaborative learning techniques/Tools***: Tools like Google Workspace, Microsoft Office 365, or collaborative whiteboard apps facilitate group projects, peer review, and collaborative problem-solving, promoting teamwork and communication skills.

Sl. No	***Name of Collaborative learning techniques/ Tools***	**Name of the Course**	**Faculty Name**	**Photos of the Activity**	**Semester /Year**
1.	Google Classroom	Principles of Programming Using C	Rashmi R	-	First Year

2	Google Workspace	Artificial Intelligence and Machine Learning (21AI52)	Raghavendra Prasad S G		5
3	Google Docs	IoT, Minor Project	G S Mamatha		MTech SE & IT 2nd sem, 2019-21
4	Group activity for Experiential Learning activity	DSA and DAA	Swetha S	-	UG 2nd year
5	Activity based learning	DSA	Swetha S		UG 2nd year
6	Coding contest	DSA	Swetha S		UG 2nd year
7	Google Classroom	Programming In C	Dr. Vanishree K	-	First Year

3. Evaluation with ICT Tools:

ICT tools offer innovative solutions for assessing student progress and providing timely feedback. Some methods of evaluation using ICT tools include:

- ***Online Assessments:*** Platforms like Quiklrn, Kahoot, Quizizz, or Google Forms enable teachers to create and administer quizzes, tests, and surveys electronically, automating grading and providing instant feedback to students.

Sl No	***Name of Online Assessment tool***	**Name of the Course**	**Faculty Name**	**Type of the event assessment**	**Semester/Year**
1	Quiklrn	Logic Design and Computer Organization	Dr Anala M R	Quiz	III
2	Quicklrn	Programming In Java	Rashmi R	Online Quiz conduction	Second Year
3	Quicklrn	Principles of Programming Using C		Online Quiz conduction	First Year
4	Quiklrn	Virtual Reality &Augmented Reality	Dr. Ashwini K B	Quiz	7th/4
5	Google Forms	Virtual Reality &Augmented Reality	Dr. Ashwini K B	Survey	7th/4
6	Google Forms	Compiler Design	Poornima Kulkarni	Quiz	V/ 2022 - 23
7	Quiklrn	Operating System	Merin Meleet	Quiz	3- 2024
8	Quiklrn	Intelligence and Machine Learning (21AI52)	Raghavendra Prasad S G	Quiz	5
9	Google Forms	Computer Networks	Sushmitha N	Quiz	IV/2022-2023
10	Quiklrn	DSA and DAA	Swetha S	Quiz and Test conduction	2nd year
11	Quicklrn	Management Information Systems	Dr. Vanishree K	Online Quiz conduction	Third Year
12	Quicklrn	Programming In C		Online Quiz conduction	First Year
13	Quicklrn	Introduction to C++ Programming		Online Quiz conduction	First Year

14	Quiklrn	Introduction to C++ Programming	B K Srinivas	Quiz	UG - I Sem/I Year
15	Google Forms	Introduction to IoT and Cloud Computing	B K Srinivas	Quiz	PG – III Sem/ II Year
16	Google drive	Introduction to IoT and Cloud Computing	B K Srinivas	Assignment	PG – III Sem/ II Year
17	Quiklrn	Introduction to Databases	Dr Padmashree T	Quiz	V

- ***E-Portfolios:*** Digital portfolios allow students to showcase their work, reflections, and achievements over time, providing a holistic view of their learning journey and enabling self-assessment and peer feedback.

Sl. No	***Name of* E-Portfolios**	**Name of the Course**	**Faculty Name**	**Type of the work assessment**	**Semester/Year**
1	https://www.linkedin.com/feed/update/urn:li:activity:7186042806426046464/	Artificial Intelligence and Machine Learning	Raghavendra Prasad S G	Paper published in IEEE Conference and won best paper award	7
2	Google Classroom	LDCOA, IoT, Cloud Computing, Cloud Native DevOps, Crptography &Network Security, HCI, SOA	G S Mamatha	Quiz, uploading certifications, reports, Review evaluations, assignment presentations	UG 3rd sem-2019 UG 7ths em-2020 UG 7th sem-2021,2022 UG CNS-2023 PG 1st sem-2020, 2021, 2022, 2023 PG 2nd sem-2020, 2021, 2022, 2023 PG 3rd sem-2020, 2021

					PG 4th sem-2020, 2021
	Quiklrn	LDCOA, IoT, Cloud Computing, Cloud Native DevOps, Crptography &Network Security, HCI, SOA	G S Mamatha	Quiz, Test, Notes, PPTs	UG 3rd sem-2019 UG 7ths em-2020 UG 7th sem-2021,2022 UG CNS-2023 PG 1st sem-2020, 2021, 2022, 2023, 2024 PG 2nd sem-2020, 2021, 2022, 2023, 2024 PG 3rd sem-2020, 2021 PG 4th sem-2020, 2021
4	Video content preparation	OS	Swetha S	Presentation mode	2nd year

- ***Learning Analytics:*** ICT tools collect and analyze data on student performance and engagement, allowing educators to identify trends, assess the effectiveness of instructional strategies, and tailor interventions to meet individual learning needs.

Sl. No	***Name of Learning Analytics***	**Name of the Course**	**Faculty Name**	**Type of the work assessment**	**Semester/ Year**
1	Quiklrn	Artificial Intelligence and Machine Learning	Raghavendra Prasad S G	Quiz	5
2	Quiklrn	All	G S Mamatha	Quiz, Test	Past 8 years

- ***Plagiarism Detection:*** With the proliferation of online resources, plagiarism has become a concern in academic settings. Plagiarism detection software like Turnitin or Grammarly can help educators identify and address instances of academic dishonesty.

Sl. No	*Name of Plagiarism Detection tool*	Name of the Course	Faculty Name	Name of the activity
1	Turnitin	AI and ML, Major Project	Merin Meleet	Paper publication related
2	Drillbit	Artificial Intelligence and Machine Learning	Raghavendra Prasad S G	Plagiarism check of minor project in AIML
3	Ternitin, Drillbit	Major Project	G S Mamatha	Major Project Report
4	Ternitin, Drillbit	Paper Publications	G S Mamatha	To check Copyright violatiosn
5	Drill Bit	Management Information Systems	Dr. Vanishree K	Plagiarism check for Technical paper

Feedback and Communication Tools: ICT tools facilitate timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts, and ongoing dialogue to support learning and growth.

Sl. No	*Name of* Feedback and Communication Tools	Name of the Course	Faculty Name	Name of the activity
1	Goolgle Classroom	Logic Design and Computer Organization	Dr Anala M R	Assignments and interactions
2	Google Classroom	Principles of Programming Using C - CS222AI	Rashmi R	Notification regarding CIE, Assignment Evaluation, Delivery of Course materials
3	Google Classroom	Programming in Java-18IS49		Assignment Evaluation, Delivery of Course materials
4	Google Drive – Spreadsheet	Introduction to IoT and Cloud Computing	B M Sagar	Assignment Evaluation
5	Google classroom	Artificial Intelligence	Raghavendra Prasad S G	Announcements,

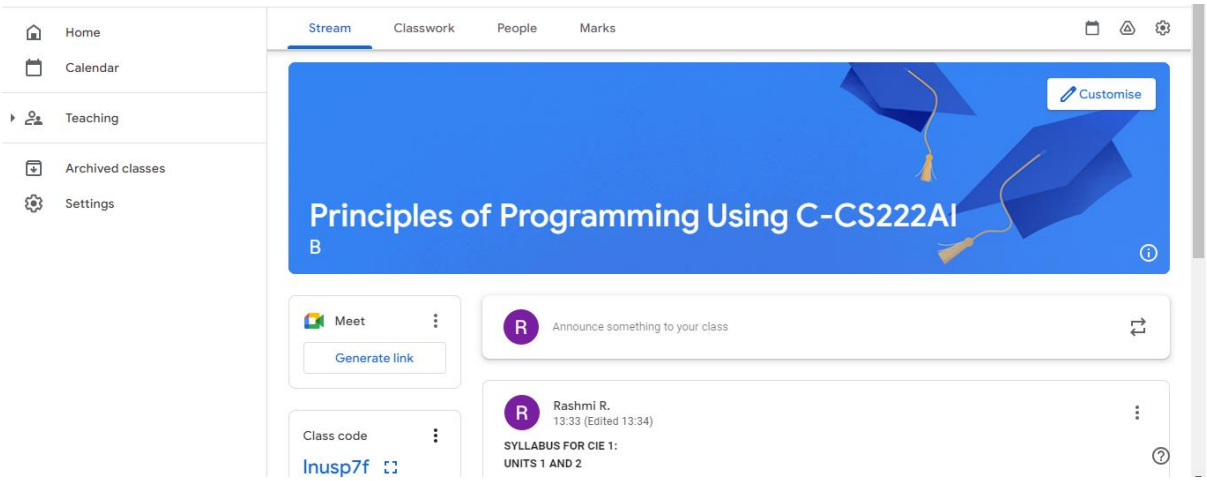
		and Machine Learning		Assignment submission, Doubts clarification
6	Quiklrn	All	G S Mamatha	Content sharing, Test & quiz conduction, Grading, Appriasal, Analysis
7	Google classroom	All	G S Mamatha	Portions shared, content sharing, assignment uploading, quiz conduction, Instructions for activities, Grading

8	Google class room	OS DSA DAA	Swetha S	Timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts
9	Google Classroom	Management Information Systems	Dr. Vanishree K	Assignment Evaluation, Delivery of Course materials
10	Google Classroom	Programming In C		Assignment Evaluation, Delivery of Course materials
11	Google Classroom	Introduction to C++ Programming		Assignment Evaluation, Delivery of Course materials
12	Google Drive – Spreadsheet	Introduction to IoT and Cloud Computing	B K Srinivas	Assignment Evaluation
13	Google Classroom	Introduction to Databases		Assignments and interactions

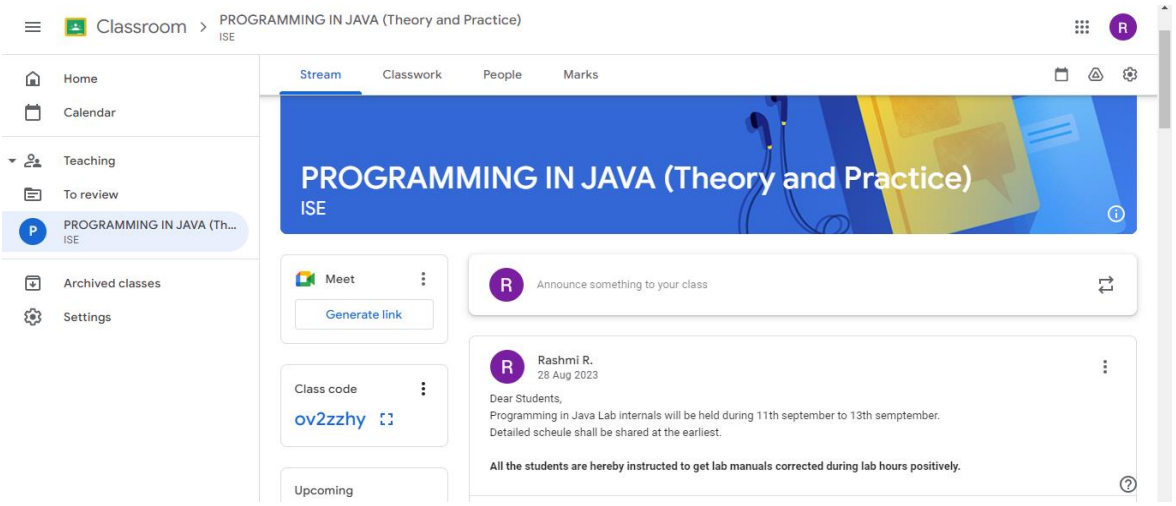
14		Web Technology	Dr. Padmashree T	
15		Blockchain Technology and use case		

Google Classroom used for the courses Principles of Programming Using-CS222AI and Programming in Java-18IS49

1. Principles of Programming Using C-CS222AI 2nd Semester

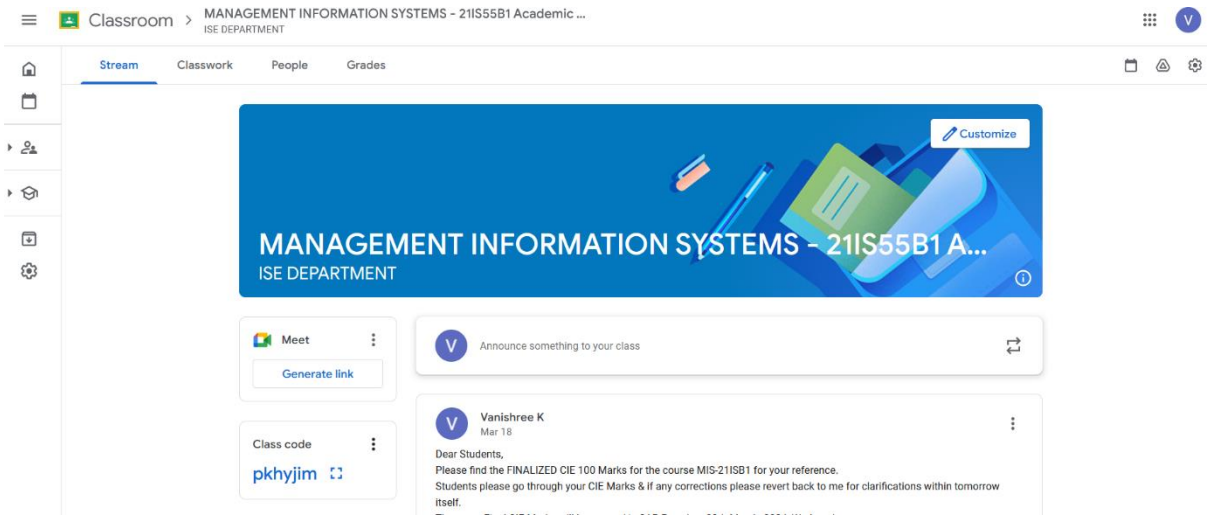


1. Google Classroom for the course Programming in Java-18IS49 4th Semester

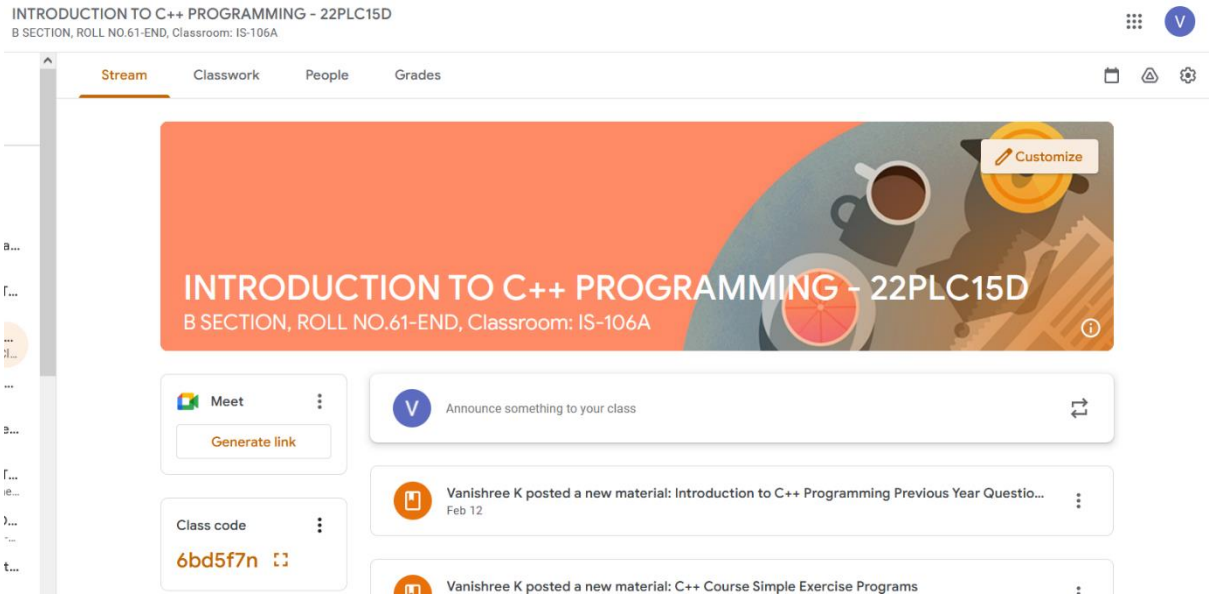


Google Classroom used for the courses Programming In C18CS23, Management Information Systems-21IS55B1 and Introduction to C++ Programming-22PL15D

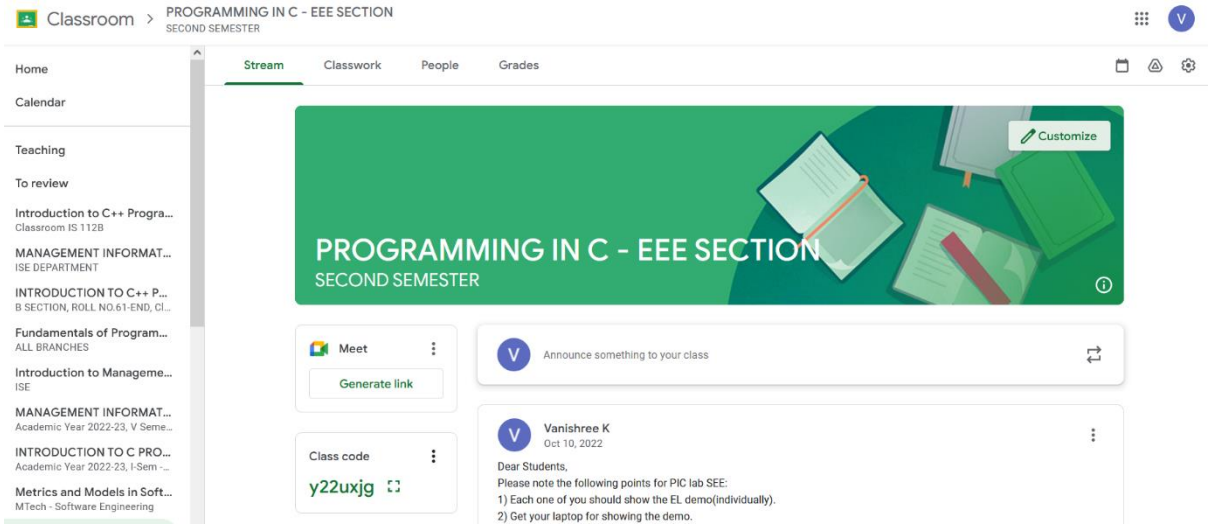
1. Management Information Systems-21IS55B1 Fifth Semester



2. Introduction to C++ Programming-22PL15D First Semester



3. Google Classroom for the course Programming In C-18CS23 Second Semester

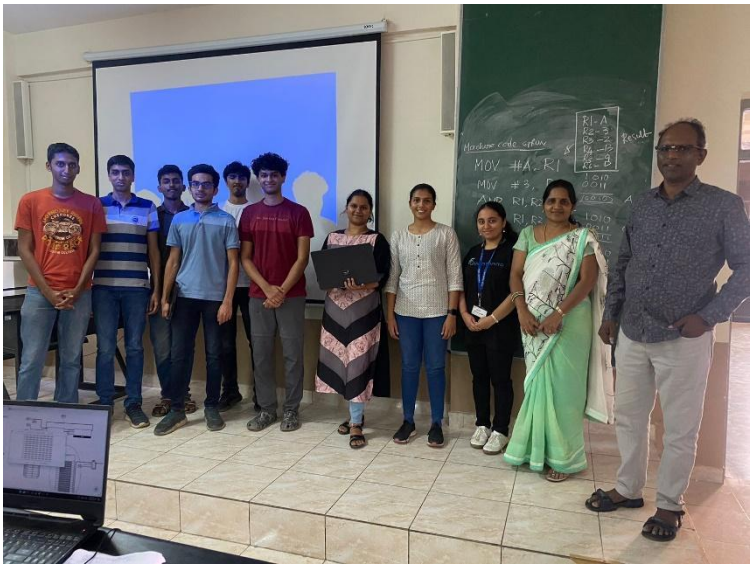


Department of Computer Science and Engineering

The Department of Computer Science and Engineering offer both UG and PG courses. Faculty are encouraged to use ICT tools for effective teaching. Usage of online resources, tools, conduction of activities are done for all the courses. Below is a snapshot of activities conducted followed by details:

Innovative classroom and Lab teaching:

Conduction of workshops, Hackathons etc.



A day long workshop on CPU Design & CPU Hack-24 and awarded prizes to 3rd Sem Sections

Conduction of partial delivery in Online and Offline mode using various tools:

Industry Expert talk Hands on OOP using Java with Hands-on , RV College of Engineering . Expert from Infosys Mr. Sanjay , ETA Lead

Invited talk on Compiler Design organised jointly by CSE and ISE as part of Compiler Design course.

Talk on DevOps

HPE Talk on "Linux Operating Systems" on 20 and 21st September.

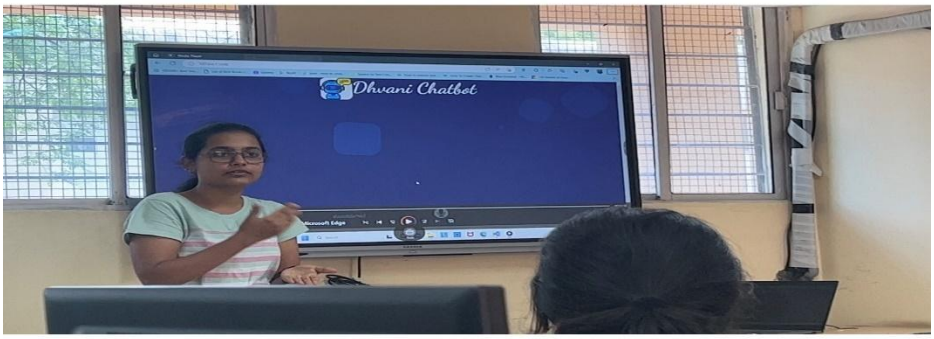
Expert Talk on 3D Computer Graphics

Talk by IISc professor@ CSE seminar hall

Invited talk on Integrating IoT concepts in Vehicular Networks

Today's Talk on IPR

Usage of Smart boards by Faculty and Students



Outcomes:

- Students improved their communication skills and preparedness based on the program specialization seminar course topics and contents as well.
- Students studied and updated more research articles / interactive dialogues among peers and other e-learning resources to present their course contents. Thereby most of them enriched their knowledge, active participation and learning process.
- Students were able to design the research articles based on their specialization / domains topics of problem statement along with the review articles as well.
- Students strongly connected and collaborated very well. Also they have accessed E-resources and Internet sources more effectively.

Impact Analysis

- Student's strengths and issues were determined from their presentation interaction and motivated all of them to improve further based on the interactive sessions in the class.
- Students were asked to validate and test the results based on a number of use cases / scenarios.
- Research articles were thoroughly checked using the plagiarism tool Turntin for the similarity index thereby they were able to understand the changes they were supposed to do along with the right kind of IEEE template to reach a wider audience as well.
- Students have secured internship opportunities and also very good placement opportunities.

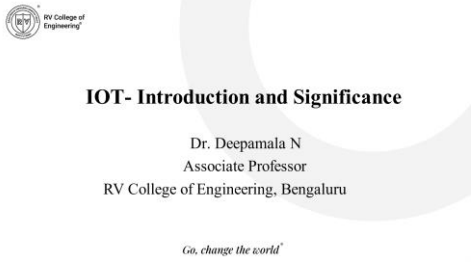
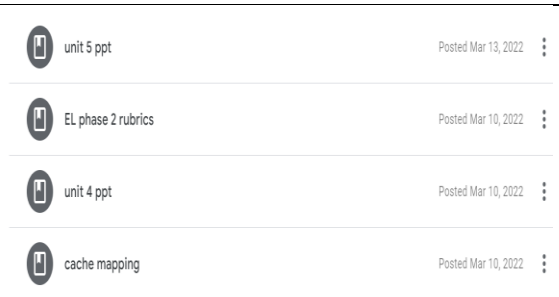
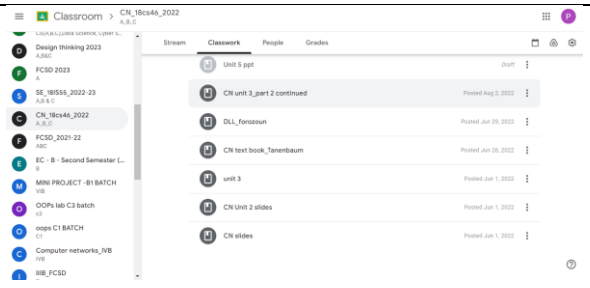
Preamble of ICT:

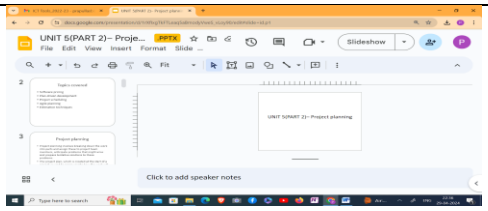
In the contemporary educational landscape, Information and Communication Technology (ICT) tools have revolutionized the way teaching, learning, and evaluation are conducted. This report aims to explore the various ways in which ICT tools are utilized to enhance these crucial aspects of education.

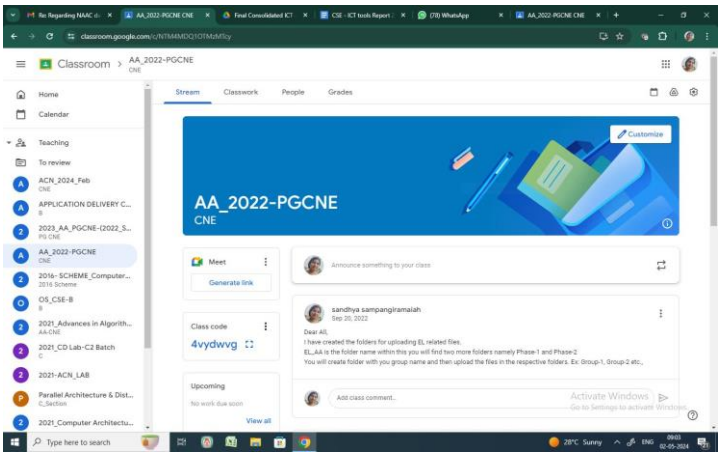
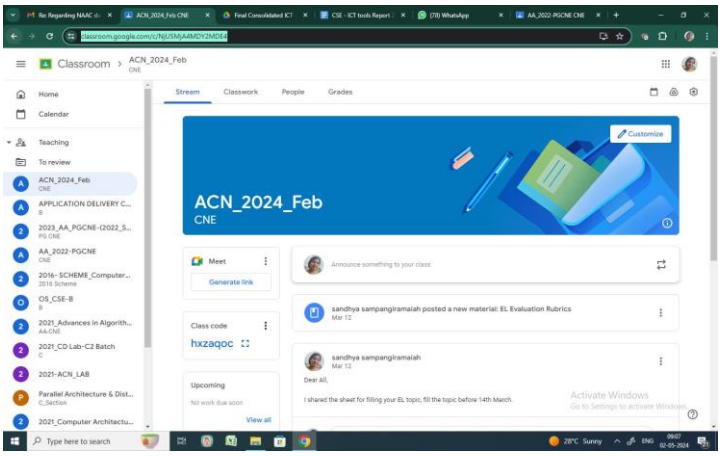
1. Teaching with ICT Tools:

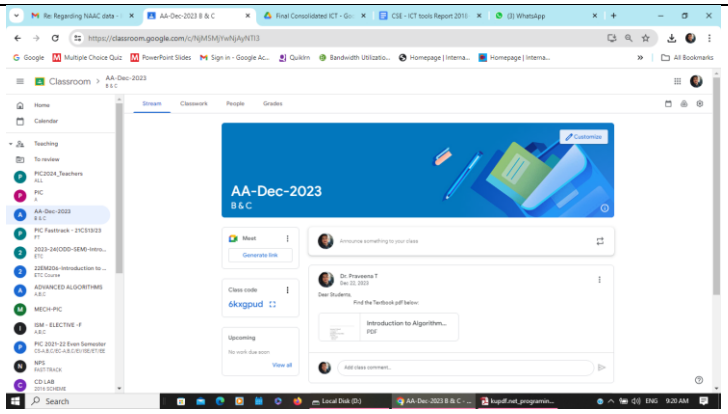
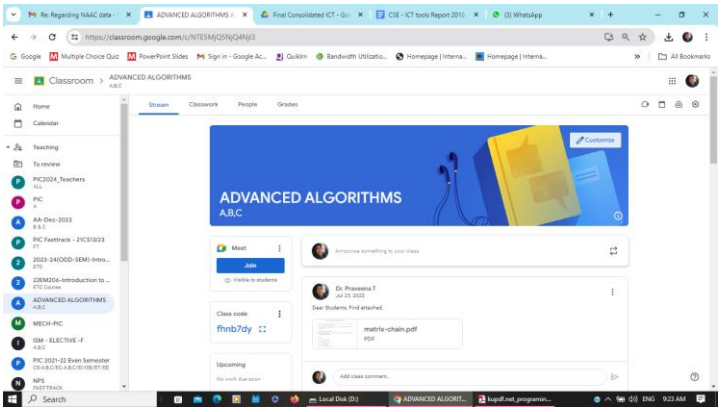
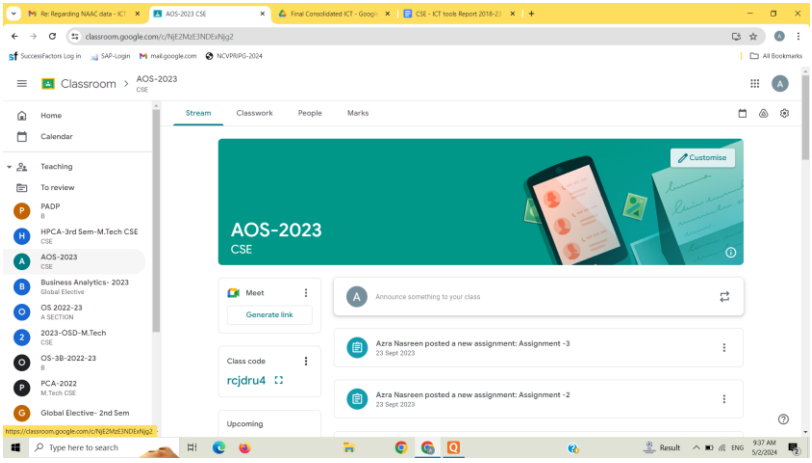
ICT tools offer educators a plethora of opportunities to engage students and make learning more interactive and effective. Some common ICT tools used for teaching include:

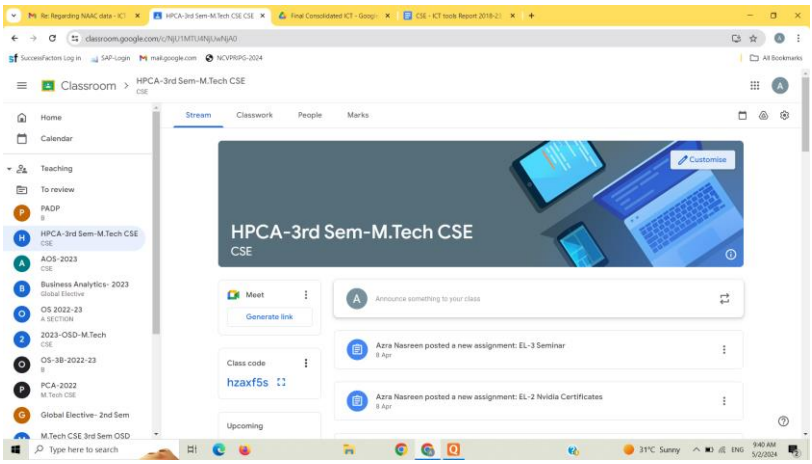
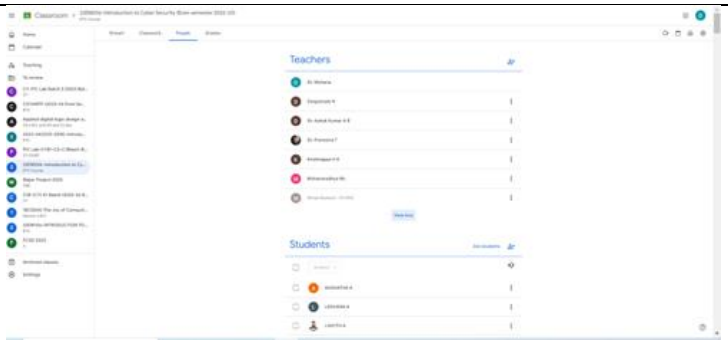
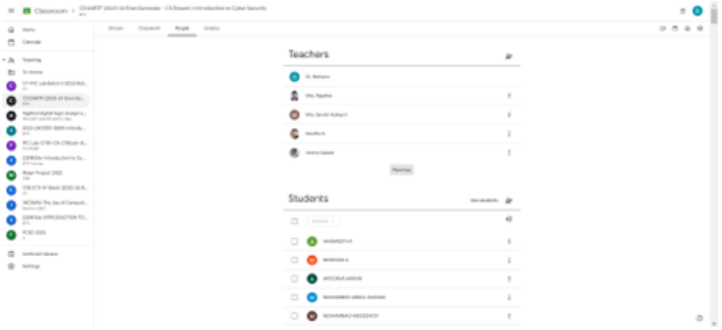
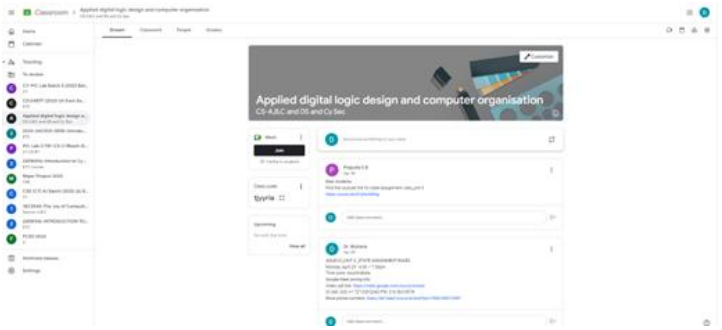
- ***Presentation Software:*** Platforms like Microsoft PowerPoint, Google Slides, or Prezi enable teachers to create visually appealing presentations to deliver content in an organized and engaging manner.

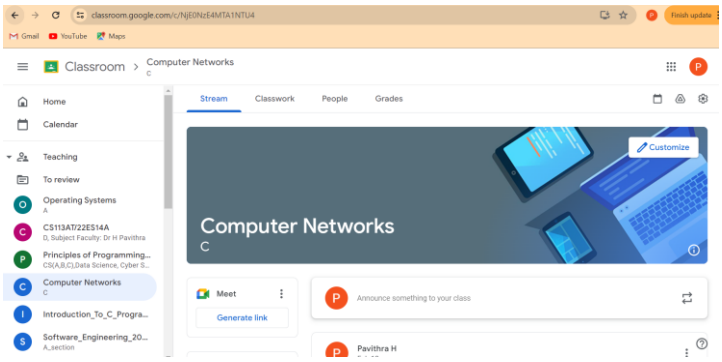
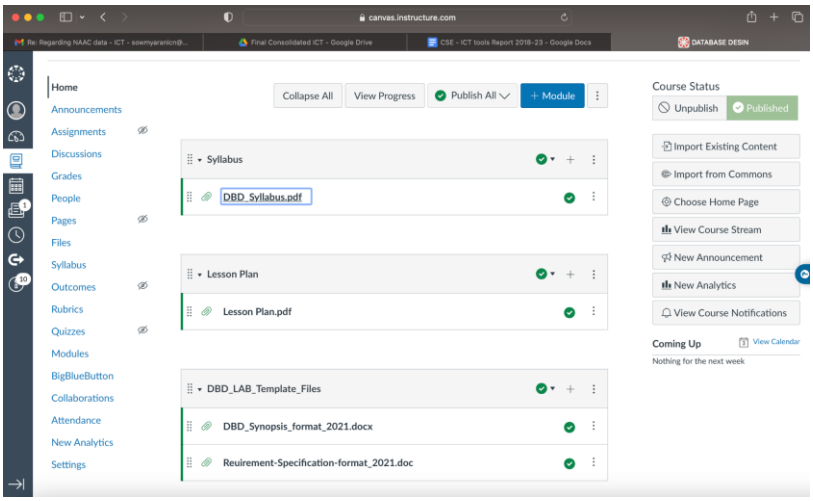
Sl.No	Name of the Faculty	*Presentation Software used*	Sample Screenshot of any one course
1	Dr. Deepamala N	Power Point	
2	Prapulla S B	Google slides/ power point	
3	Prapulla S B	Google slides/ power point	

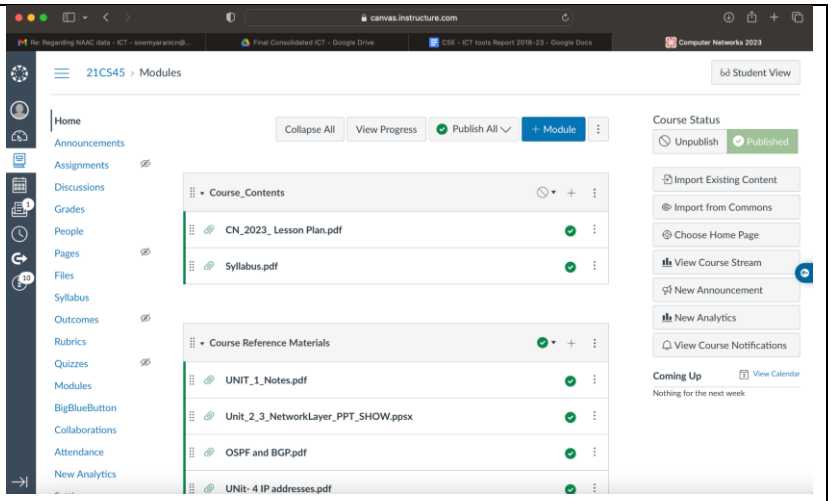
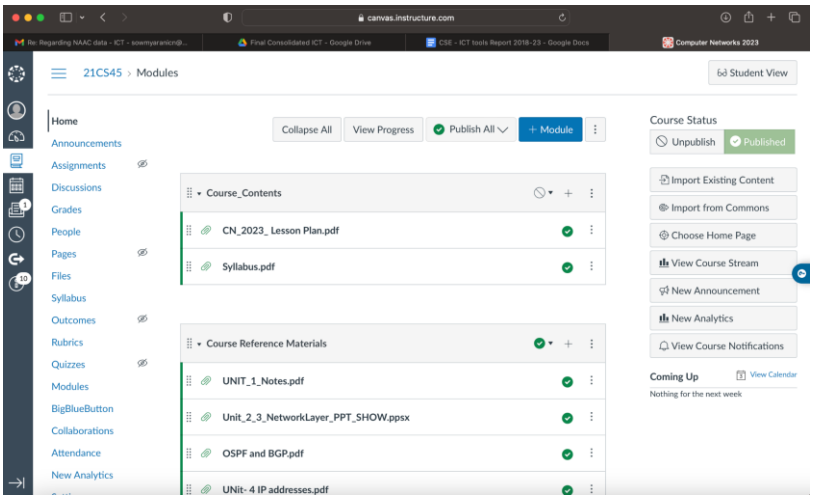
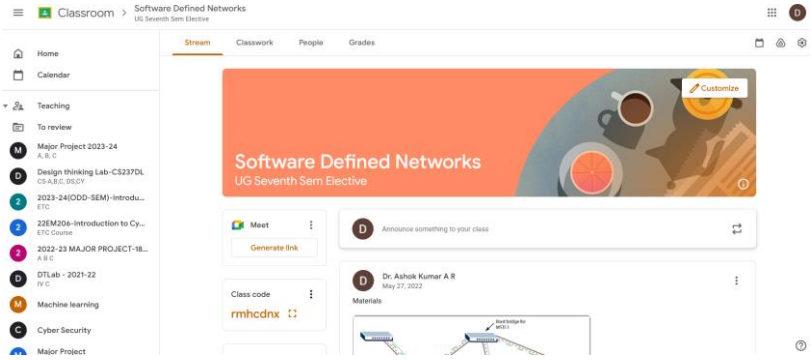
			18cs46 –computer networks
4	Prapulla S B	Google slides	
5.	Dr Nagaraja G.S	Microsoft Power Point	Advances in Networks-PGCNE Management-2018-19
6.	Dr Nagaraja G.S	Microsoft Power Point	High speed Networks-PGCNE-2019-20
7	Dr Nagaraja G.S	Microsoft Power Point / Google Class Room	Data Preparation and Analysis--PGCSE-2020-2021. https://classroom.google.com/c/NDY3MDAxODY4NzIw
8	Dr Nagaraja G.S	Microsoft Power Point / Google Class room	Advances in Networks Management-2021-2022
9	Dr Nagaraja G.S	Microsoft Power Point / Google Class Room	Network Programming-2022-2023 https://classroom.google.com/c/NjMwNDc3MTIwNjg3
10	Dr. Sandhya S	Microsoft Power Point / Google	Application Delivery Controller and Virtualization 2022-2023 https://classroom.google.com/w/NjQ2MDM0MDEwMDQ5/t/all

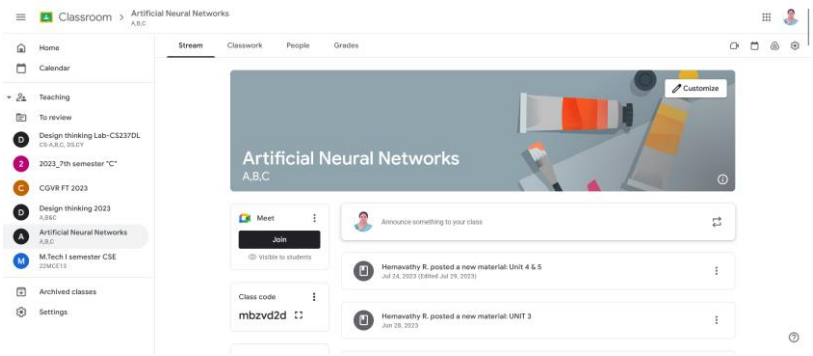
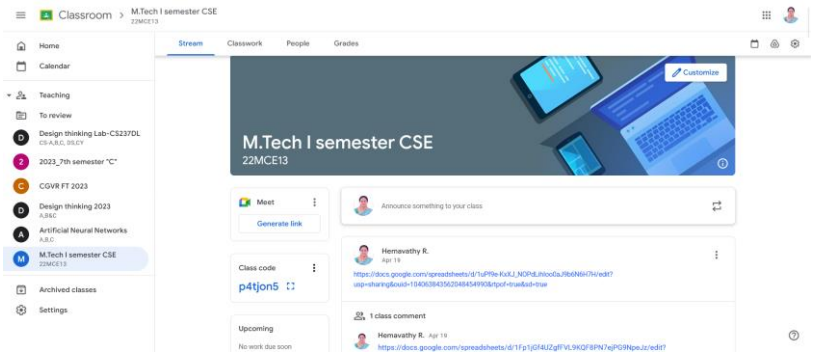
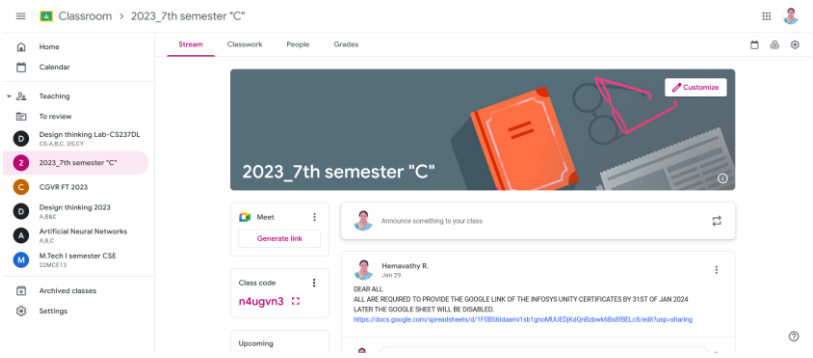
		Class Room	
11	Dr. Sandhya S	Microsoft Power Point / Google Class Room	Advances in Algorithms 2021-2022 https://classroom.google.com/c/NTM4MDQ1OTMzMTcy?cjc=4vydwvg 
12	Dr. Sandhya S	Microsoft Power Point / Google Class Room	Advances in Computer Networks 2023-2024 https://classroom.google.com/c/NjU5MjA4MDY2MDE4 
13	Dr. Praveena T	Google Classroom	Advanced Algorithms https://classroom.google.com/c/NjM5MjYwNjAyNTI3

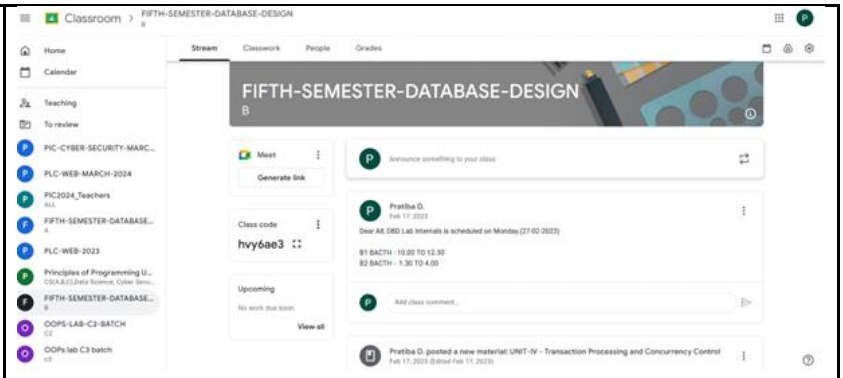
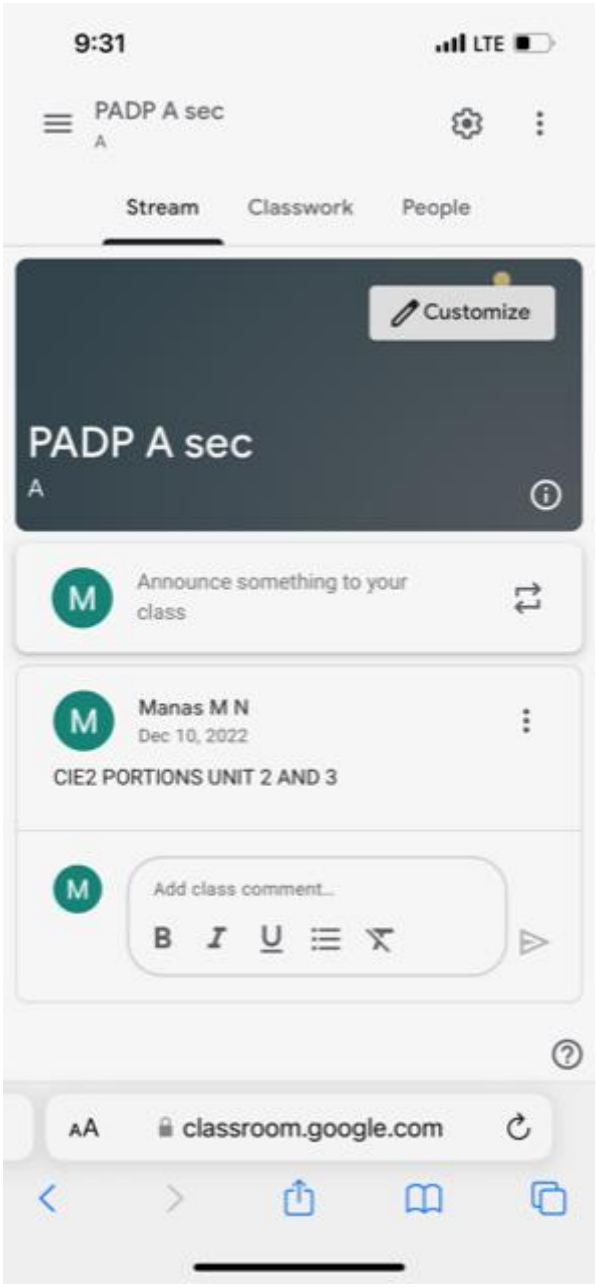
			
14	Dr. Praveena T	Google Classroom	Advanced Algorithms https://classroom.google.com/c/NTE5MjQ5NjQ4NjI3 
15	Dr. Azra Nasreen	Google Classroom	Advances in Operating System https://classroom.google.com/c/NjE2MzE3NDExNjg2 

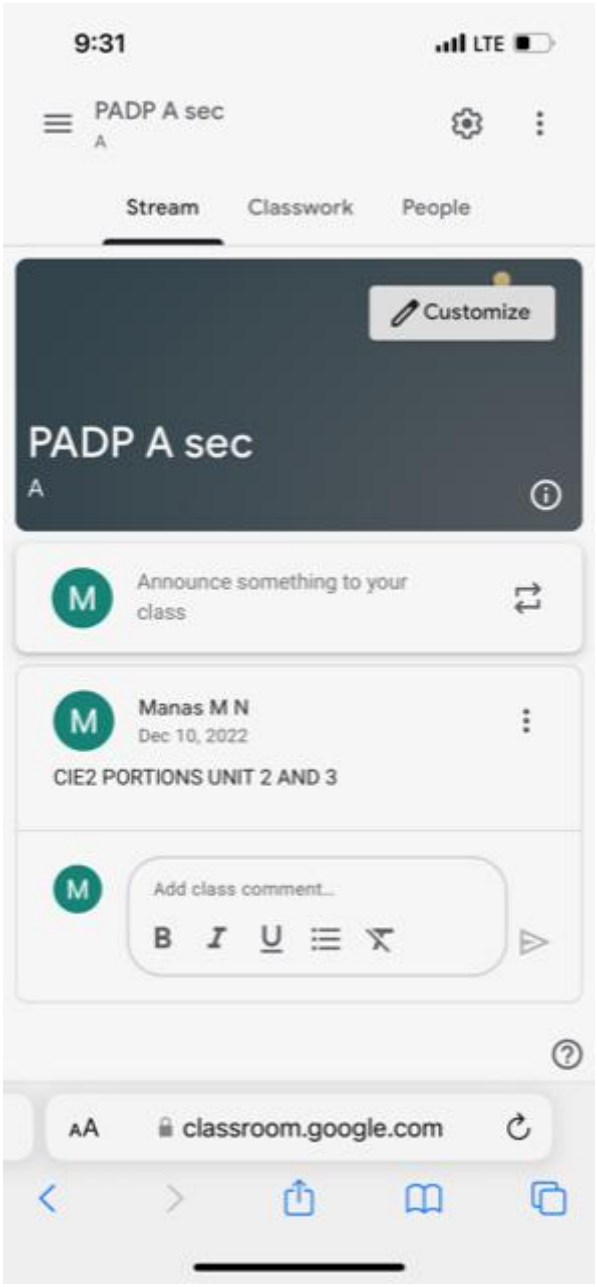
16	Dr. Azra Nasreen	Google Classroom	High Performance Computing Architecture https://classroom.google.com/c/NjU1MTU4NjUwNjA0 
17	Dr.Mohana	Google slides/ power point	 22EM206-Introduction to cybersecurity  CS114BTF-Introduction to cybersecurity 

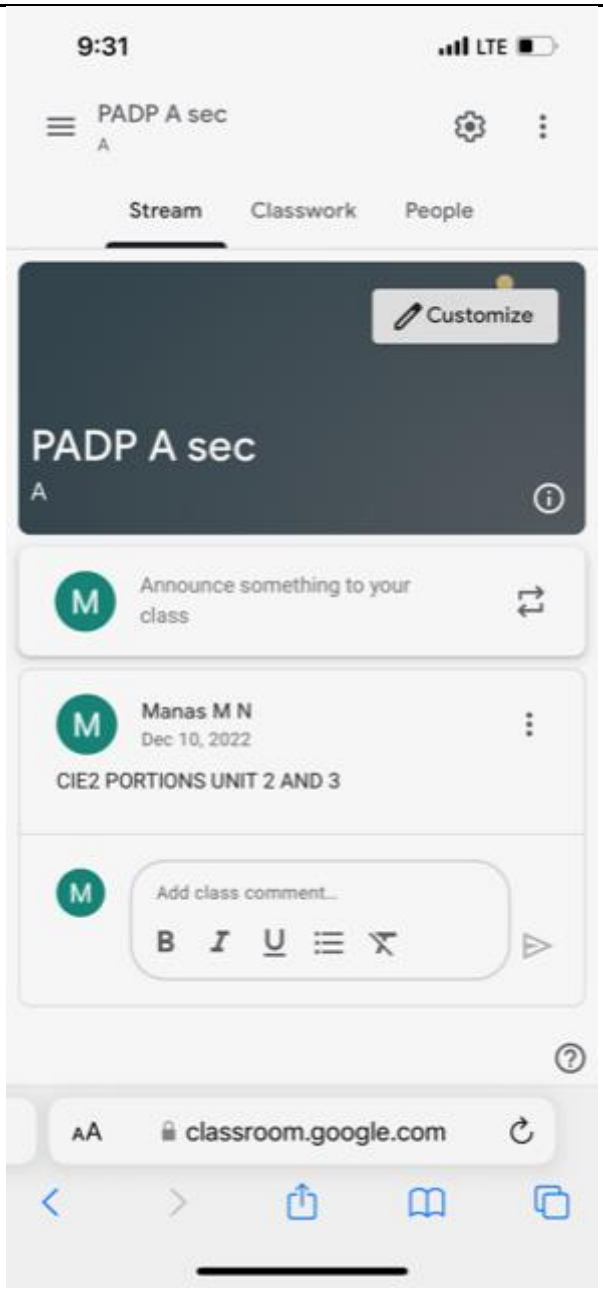
			CS234AI-Applied digital logic design and Computer organization
18	Dr H.Pavithra	Google site	https://sites.google.com/rvce.edu.in/networks2023 Computer Networks-21CS45  21CS45-Computer Networks https://classroom.google.com/c/NjE0NzE4MTA1NTU4
19b	Dr. Sowmyarani C N	Database Design	CANVAS Database Design:18CS53 
20	Dr. Sowmyarani C N	21CS45: Computer	CANVAS 21CS45: Computer Networks

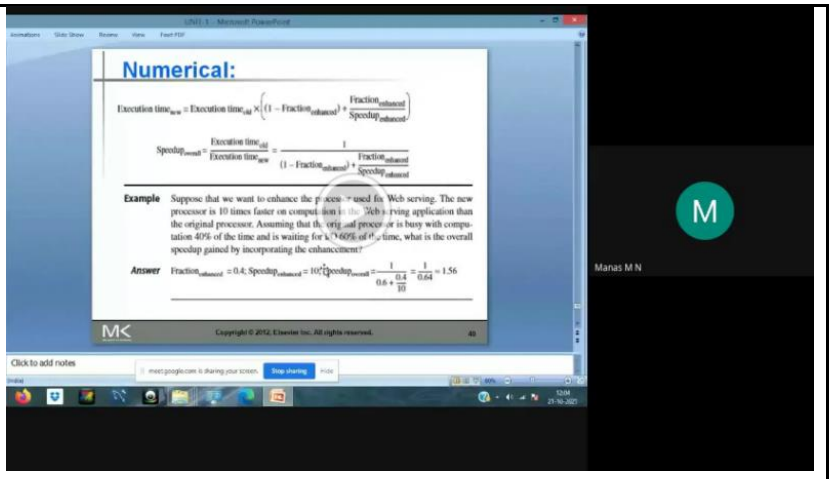
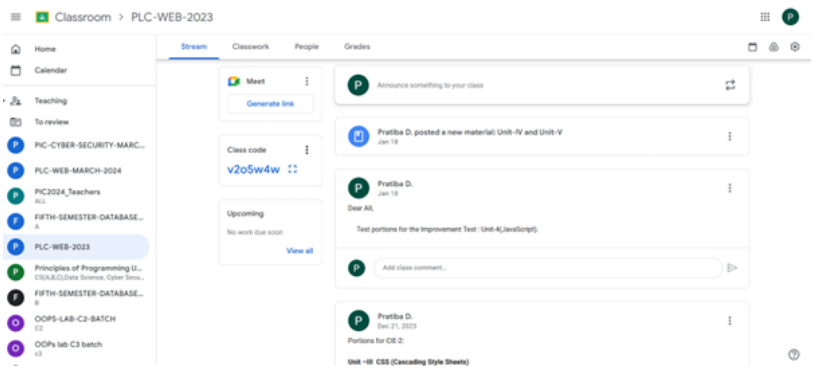
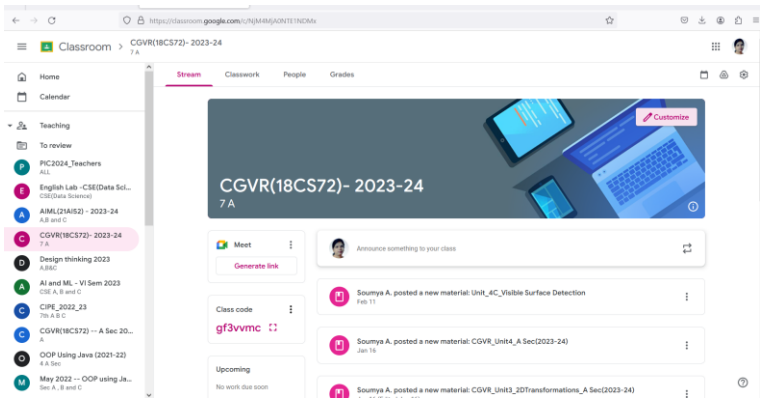
		Networks	
21	Dr. Sowmyarani C N	MCN202T: Information and Network Security	CANVAS MCN202T: Information and Network Security 
22	Dr. Ashok Kumar A R	18CS7F4: Software Defned Networks	Google Class room https://classroom.google.com/c/NDAxOTQ5NjMxODAx 

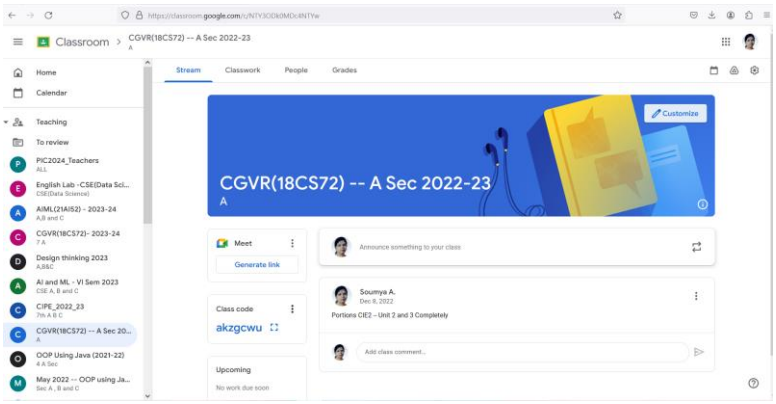
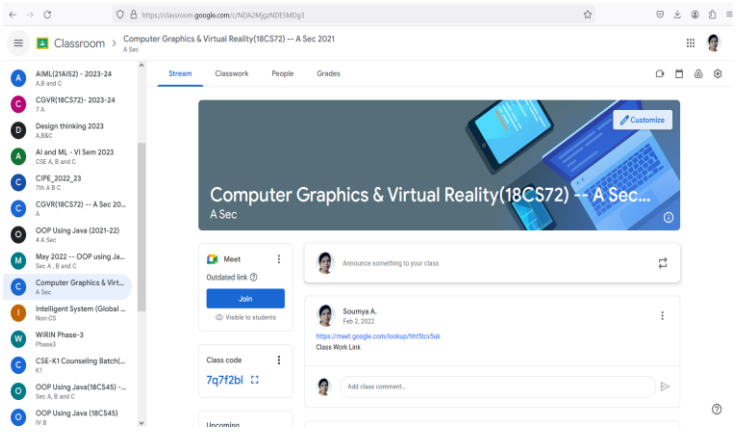
23	Dr. Hemavathy R	18CS6D3:Artificial Neural Networks	2022-23 GoogleClass Room: https://classroom.google.com/c/NjA4MzA2MjUwOTc3 
24	Dr. Hemavathy R	22MCE13 M.Tec-I st CSE	Google Classroom 23-24 https://classroom.google.com/c/NjAwODg1NzA3Njk0 
24	Dr. Hemavathy R	18CS72-Computer Graphics & Virtual Reality	2023-24 - Google Class Room https://classroom.google.com/c/NjQyMDYwMTAwOTI2 
25	Dr.Pratiba D	Google Classroom	2022-2023 (18CS53-Database Design) https://classroom.google.com/c/NTA4NTk5ODQ1MTIz

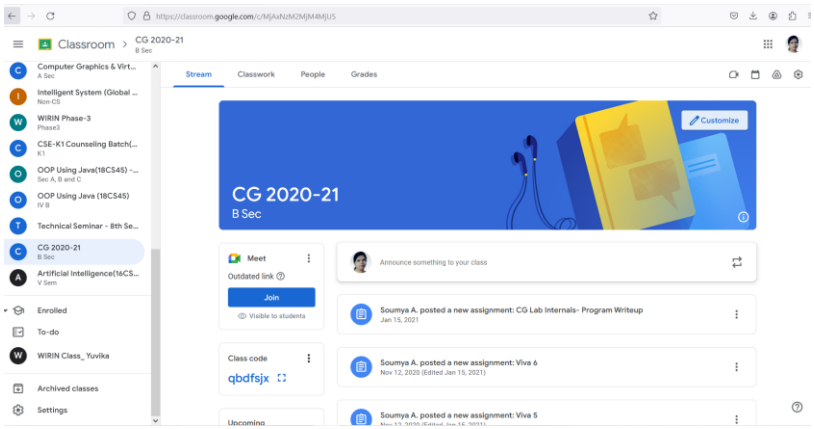
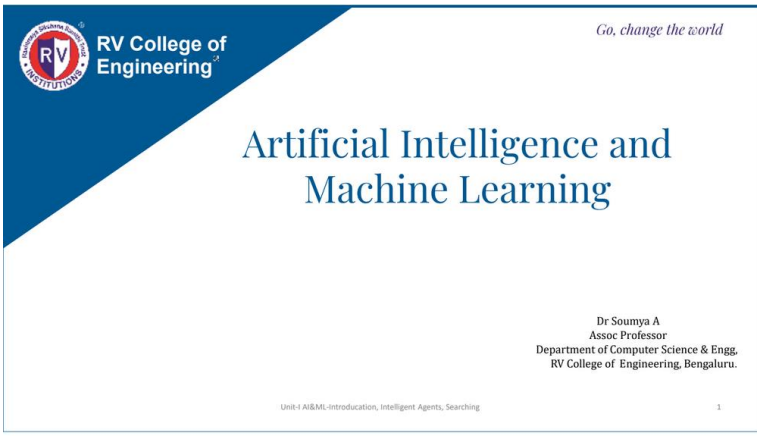
			
26	Dr.Manas M N	Google Classroom	2021-22 (18CS73 Parallel Architecture and distributed Computing) 

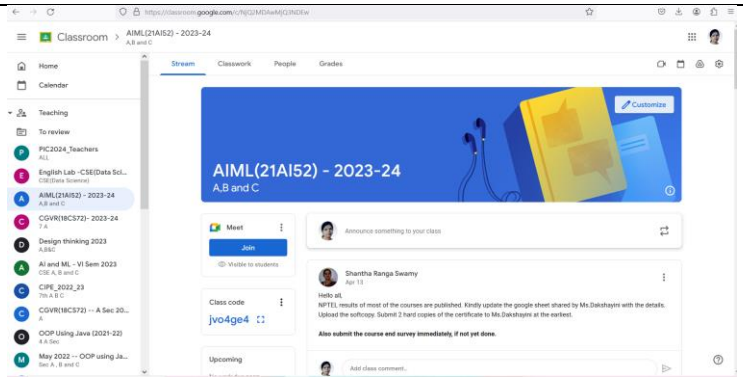
27	Dr.Manas M N	Google Classroom	2022-23 (18CS73 Parallel Architecture and distributed Computing) 

			
28	Dr.Manas M N	Video	2022-23 (18CS73 Parallel Architecture and distributed Computing)

			
	Dr.Pratiba D	Google Classroom	2023-2024 (Introduction to Web Programming) https://classroom.google.com/c/NjUwMjkyNzUwNjgz 
29.	Dr Soumya A	Microsoft Power Point & Videos in Google ClassRoom	Computer Graphics and Virtual Reality (18CS72) (2023-24) https://classroom.google.com/c/NjM4MjA0NTE1NDMx 

			Computer Graphics and Virtual Reality (18CS72) (2022-23) https://classroom.google.com/c/NTY3ODk0MDc4NTYw  Computer Graphics and Virtual Reality (18CS72) (2021-22) https://classroom.google.com/c/NTY3ODk0MDc4NTYw 

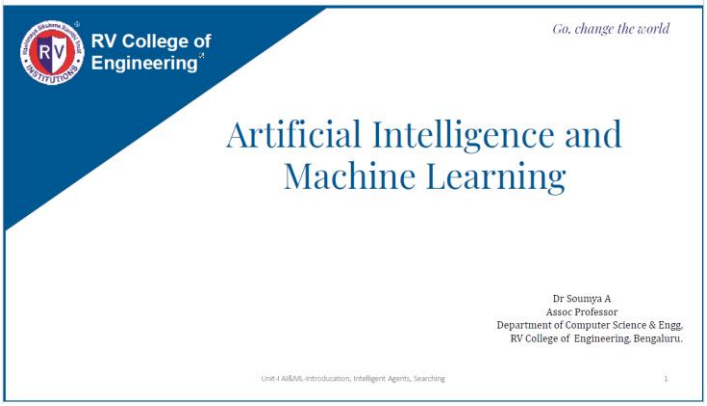
			Computer Graphics (16CS73) (2020-21) https://classroom.google.com/c/NTY3ODk0MDc4NTYw 
30.	Dr Soumya A	Microsoft Power Point & Other materials in Google ClassRoom	Artificial Intelligence & Machine Learning(21AI52) (2023-24) Microsoft Power Point  https://classroom.google.com/c/NjQ2MDAwMjQ3NDEw



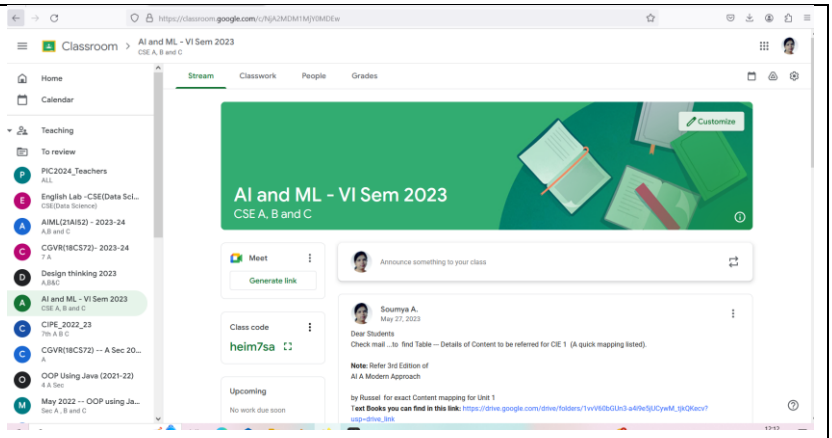
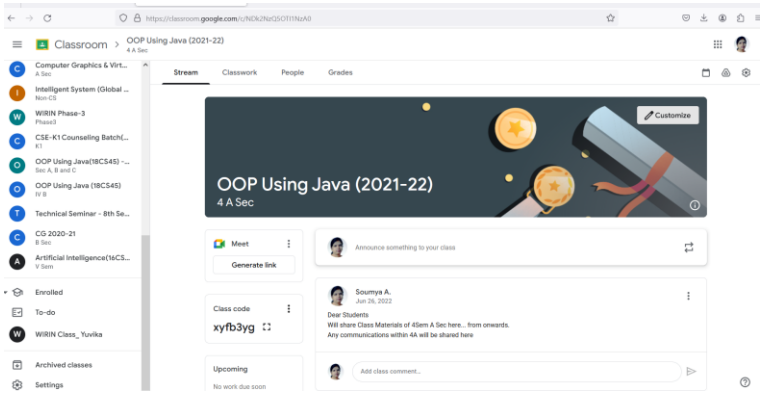
Artificial Intelligence & Machine Learning(18CS62)

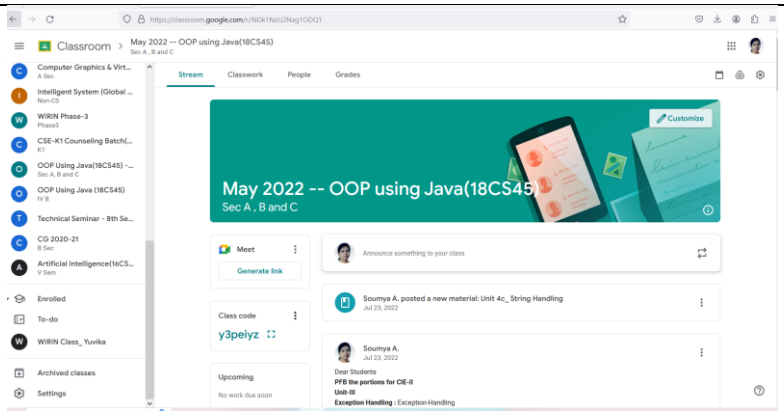
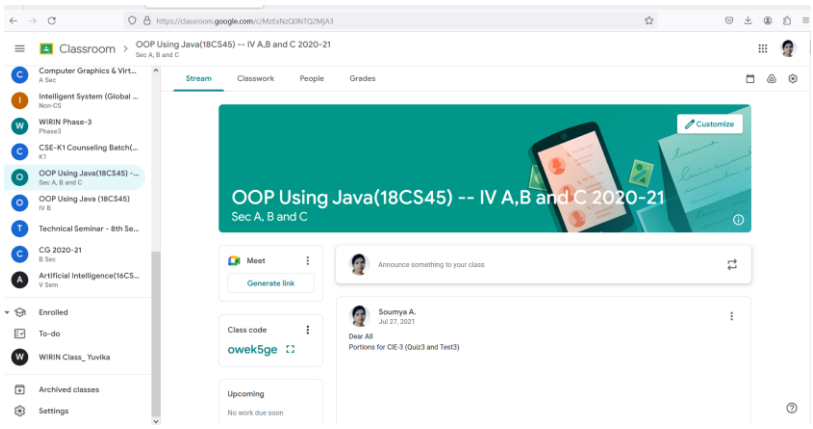
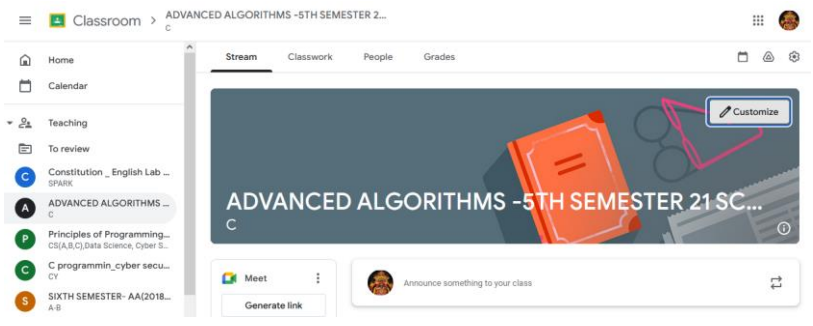
(2022-23)

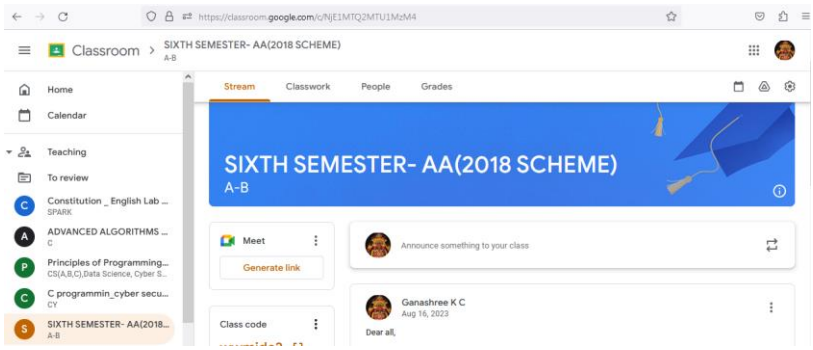
Microsoft Power Point



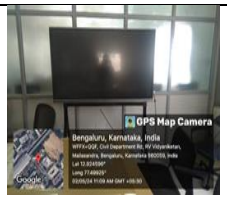
https://classroom.google.com/c/NjA2MDM1MjY0MDEw

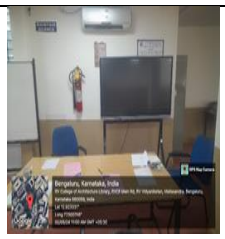
			
31.	Dr Soumya A	Microsoft Power Point / Google Class Room	Object Oriented Programming in Java(2021-22) https://classroom.google.com/c/NDk2NzQ5OTI1NzA0  Object Oriented Programming in Java May 2022 https://classroom.google.com/c/NDk1NzU2Nzg1ODQ1

			 Object Oriented Programming in Java(2020-21) https://classroom.google.com/c/MzExNzQ0NTQ2MjA3 
32	Ganashree K C	Google Classroom	2018 Scheme Advanced Algorithms 18IS6C2 - https://classroom.google.com/c/NjE1MTQ2MTU1MzM4 

33	Ganashree K C	Google Classroom	2021Scheme Advanced Algorithms 21CS55B3 - https://classroom.google.com/ 

- ***Interactive Whiteboards:*** Interactive whiteboards facilitate dynamic teaching by allowing educators to display multimedia content, annotate, and interact with digital materials in real-time, fosterin
- g active participation among students.

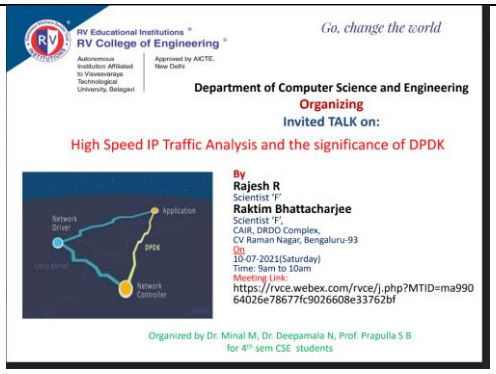
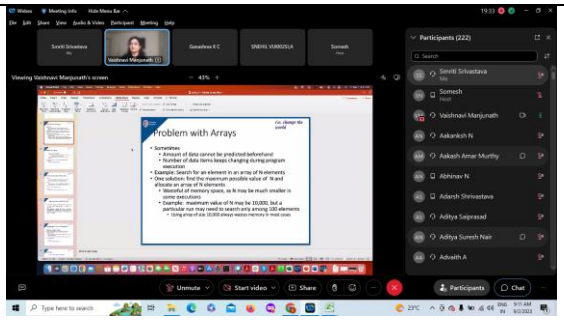
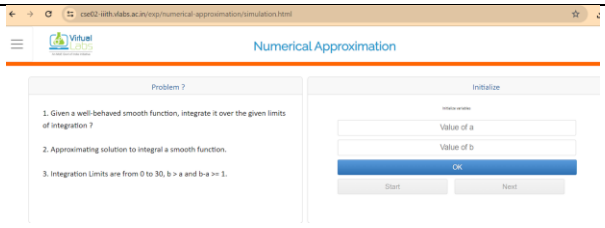
Sl.No	No of Interactive Boards in the Department	Specifications of the whiteboard	Image of the whiteboard (smart board)	List the application faculties are explored (Like for annotation, real time interaction etc..)
1.	01	Maxhub: 65" Display, Intel core i5, 8400, 2.8Ghz, 8 GBRAM, 128 SSD GB, 1TB HDD(external), Win Enterprice edition 10,	 Laboratory: 01	Smart boards are used for demonstration of Experiential learning, Minor Project, Major Project, Seminars, Lecture class for ICT Tools. Smart boards are used by UG and PG students.
2	01	Maxhub: 65" Display, Intel core i5, 8400, 2.8Ghz, 8 GBRAM, 128 SSD GB, 1TB		Smart boards are used for demonstration of Experiential learning, Minor Project, Major Project, Seminars, Lecture class for ICT

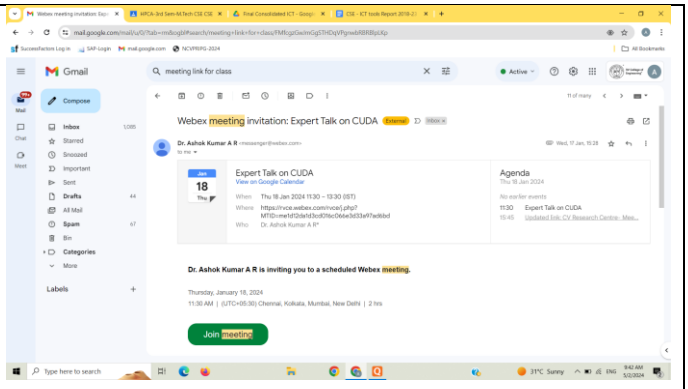
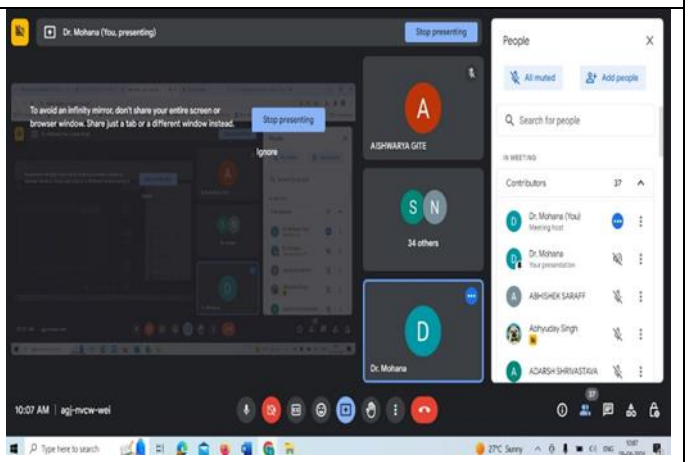
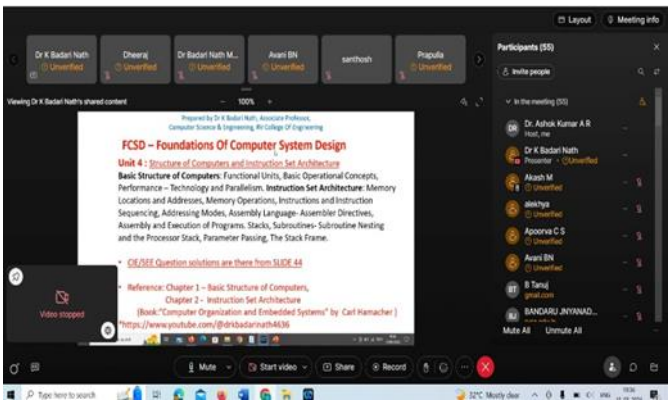
		HDD(external), Win Enterprice edition 10,	Laboratory : 03	Tools. Smart boards are used by UG and PG students.
3	01	Maxhub: 65" Display, Intel core i5, 8400, 2.8Ghz, 8 GBRAM, 128 SSD GB, 1TB HDD(external), Win Enterprice edition 10,	 Laboratory : 04	Smart boards are used for demonstration of Experiential learning, Minor Project, Major Project, Seminars, Lecture class for ICT Tools. Smart boards are used by UG and PG students.
4	01	Maxhub: 65" Display, Intel core i5, 8400, 2.8Ghz, 8 GBRAM, 128 SSD GB, 1TB HDD(external), Win Enterprice edition 10,	 Laboratory : 06	Smart boards are used for demonstration of Experiential learning, Minor Project, Major Project, Seminars, Lecture class for ICT Tools. Smart boards are used by UG and PG students.
5	01	Maxhub: 65" Display, Intel core i5, 8400, 2.8Ghz, 8 GBRAM, 128 SSD GB, 1TB HDD(external), Win Enterprice edition 10,	 Laboratory : 07 & 08	Smart boards are used for demonstration of Experiential learning, Minor Project, Major Project, Seminars, Lecture class for ICT Tools. Smart boards are used by UG and PG students.
6	01	Maxhub: 65" Display, Intel core i5, 8400, 2.8Ghz, 8 GBRAM, 128 SSD GB, 1TB HDD(external), Win Enterprice edition 10,	 Laboratory: PGCSE	Smart boards are used for demonstration of Experiential learning, Minor Project, Major Project, Seminars, Lecture class for ICT Tools. Smart boards are used by UG and PG students.

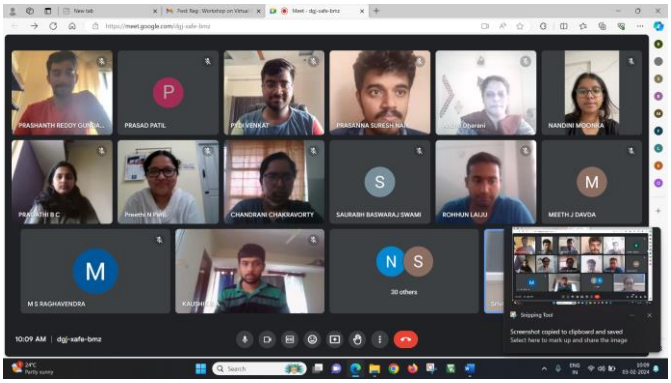
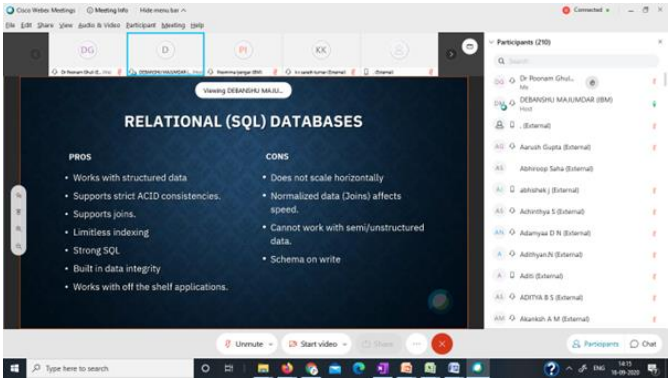
7	01	Samsung:55" Display, Model EM65R,	 Class room : CS211	Smart boards are used for demonstration of Experiential learning, Minor Project, Major Project, Seminars, Lecture class for ICT Tools. Smart boards are used by UG and PG students.
8	01	CONNAI : 65" Display, AMD A8-4500M, 4GB RAM, 128GB SSD, Win Pro 10 – 64bit OS	 Class room : CS212	Smart boards are used for demonstration of Experiential learning, Minor Project, Major Project, Seminars, Lecture class for ICT Tools. Smart boards are used by UG and PG students.

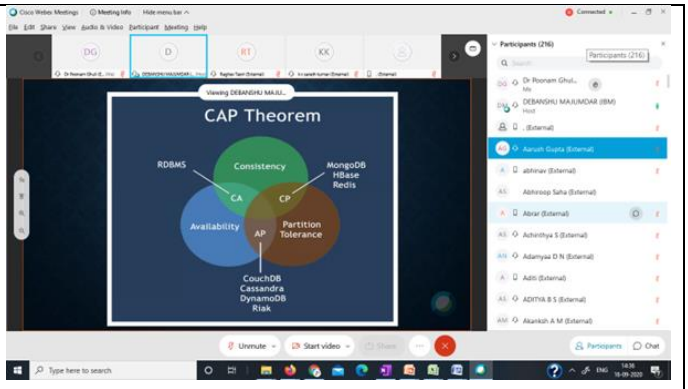
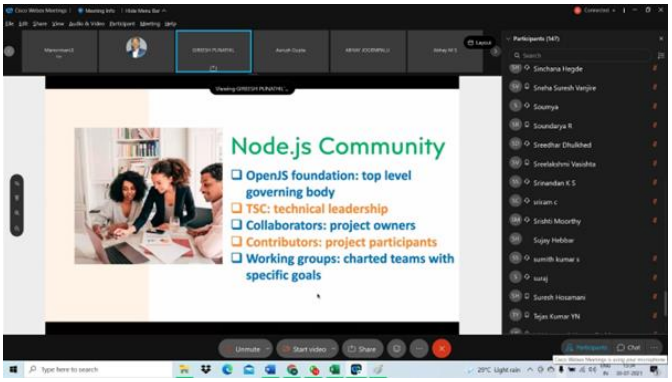
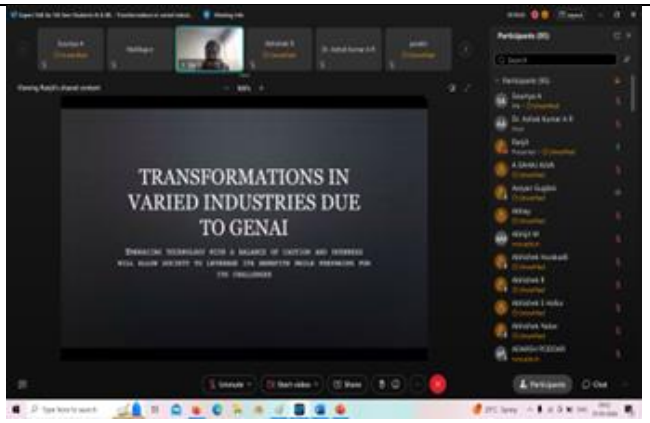
- **Video Conferencing:** Tools such as Zoom, Microsoft Teams, or Google Meet have become indispensable for remote or hybrid learning scenarios, enabling live virtual classes, guest lectures, and collaborative projects.

Sl .No	**Video Conference tool name**	**Purpose of the usage**	**Faculty Name**	**Photos of the event**
1	Google Meet	Class Conduction	Smriti Srivastava	meet.google.com/fjp-tiue-pay
2	Google Meet for the course	Class Conduction	Prapulla S B	

	FCSD-Foundations of computer systems design			
3	Webex	Partial Delivery	Smriti Srivastava	https://bit.ly/34CxL5r
4	Webex	Partial Delivery	Prapulla S B	 https://rvce.webex.com/rvce/ldr.php?RCID=91d0e4a6f04e8f251879faa6c01357a2
5	Webex	Partial Delivery	Smriti Srivastava	
6	Google meet	Online class for theory as well as lab	Prapulla S B	

7	Cisco Webex Link	Partial delivery by Industry for PADP Course	Dr. Manas Dr. Azra Dr. Minal	
8	Google Meet Cisco Webex link	Class Conduction EL Evaluation and doubts clarification	Dr.Mohana	  

7	Google meet	Class Conduction for Fundamentals of programming using C	Dr H.Pavithra	https://meet.google.com/fxk-tyzu-uqi?authuser=0&hs=179&pli=1
8	Google Meet	Conduction of Workshop on UNITY software for 7th sem students	Dr. Hemavathy R Dr. Soumay A. Prof. Srividya M S	Date: 3rd Feb 2024, Time: 10 am to 12.30 pm Google Meet link: https://meet.google.com/dgj-xafe-bmz 
9	Cisco Webex	Conduction of partial delivery on “Mongo DB and Casssandra” for 5th sem students	Dr. Pratiba D	Date: 16-09-2020 Subject:Database Design(18CS53) Partial Delivery on MongoDB and Cassandra 

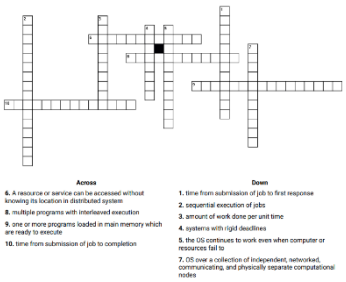
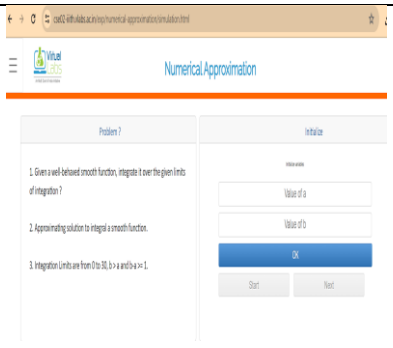
				
10	Cisco Webex	Conduction of Invited Talk on Angular JS for UG 6th sem students	Dr. Ramakanth Kumar P Dr. Pratiba D	Date: 30-07-2021 Subject:Web Programming(18IS6D1) Talk on Angular JS 
11	Cisco Webex	**Conduction of Expert Talk on** "Transformations in varied Industries due to GenAI" for UG 5th Sem Students	Dr Soumya A	

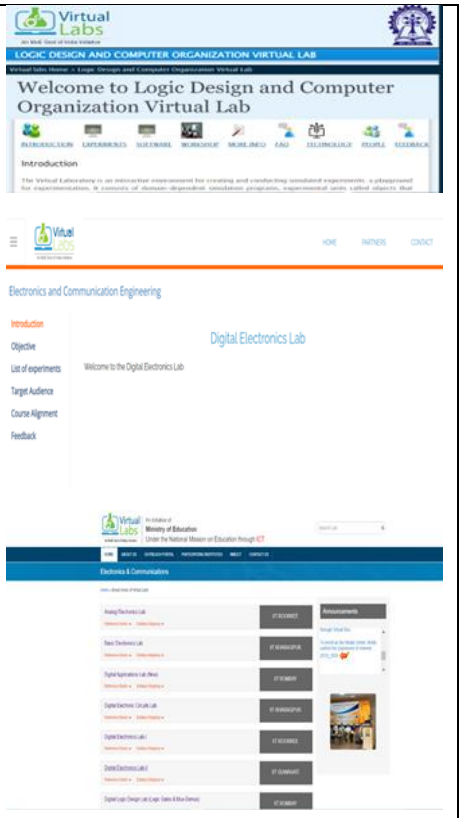
				 **Speaker:** Mr. Ranjit Reddy **Date:** 15th March 2024 (Friday) **Time :** 9 to 10.30, Virtual Mode. **Meeting Link:** https://rvce.webex.com/rvce/j.php?MTID=m207bbf5a87e9ea807c69dce75d0ee6e2
12	Webex	Partial Delivery Condcuted on "Object Oriented Programming using Java (with Hands-on"	Dr Soumya A	Partial Delivery Conducted on "Object Oriented Programming using Java (with Hands-on) **Speaker:** Mr Sanjay Deorari, Lead, ETA, Infosys Pvt. Ltd **Date:** 17th August 2022 **Time :** 10 am to 1.30 pm. Virtual Mode. https://infosys.webex.com/infosys/j.php?MTID=m50a61986f231db88cebf879bb344315a
13	Cisco Webex	Talk on "Object Oriented Programm	Dr Soumya A	**Topic:** Talk on "Object Oriented Programming from an Industry PoV"

		ing from an Industry PoV"		**Speaker:** Mr.Akshar Prasad, ML Engineer , Atlassian **Date:** 17th July 2021 **Time :** 1.30 pm to 4.45 pm Virtual Mode. https://rvce.webex.com/rvce/j.php?MTID=me22ea4c080a04c80551c5fa318097167
14	Webex	Expert talk on "Virtual Reality"	Dr Soumya A	**Topic:** Expert talk on "Virtual Reality". **Speaker:** Mr. Rajesh Kumar Rawal- Infosys Pvt Ltd **Date:** 29th Dec 2021 **Time :** 9.30 AM to 11 AM Virtual Mode. https://infosys.webex.com/infosys/j.php?MTID=mef792a1bd7f34fecc2630ef226230166

- ***Simulations and Virtual Labs:*** ICT tools offer simulated environments for students to conduct experiments or explore concepts that may be difficult or dangerous to replicate in a physical setting, enhancing experiential learning.

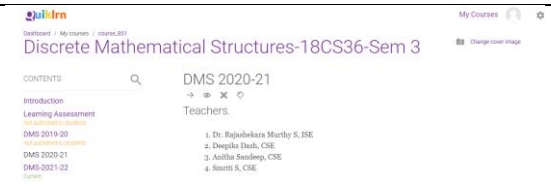
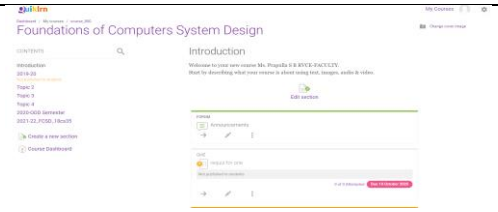
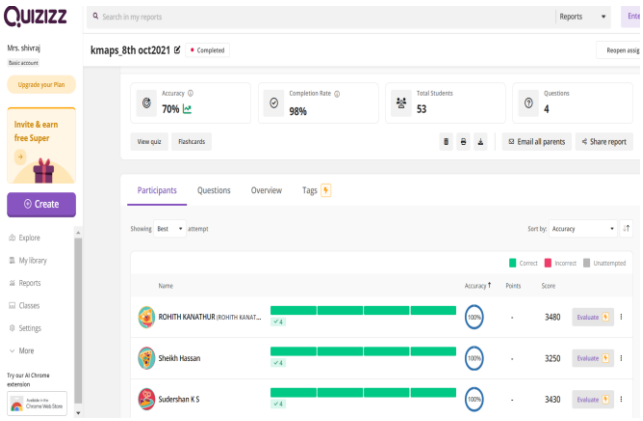
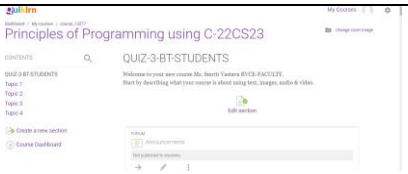
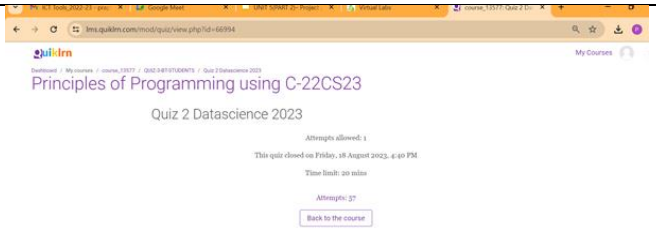
Sl. No	*Name of Simulations and Virtual Labs*	Name of the Course	Faculty Name	Photos of the Activity

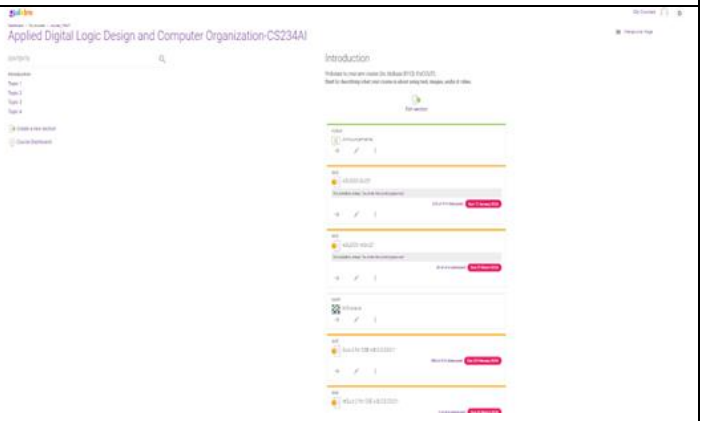
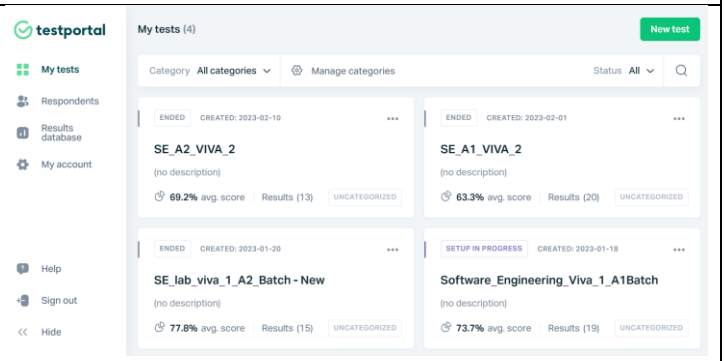
1	http://vlabs.iitkgp.ac.in/coa/	Foundations of computer systems design(FCSD)	Prapulla S B	
2	Linux machine – standalone or virtual box	Operating Sysems (18CS34)	Jyothi Shetty	Students were asked to • Write a program to create a child process. The parent and child should write message to a file opened by parent. (Handle race condition) • Write a program to demonstrate locking and unlocking of a file. • Write a program to implement ln command.
3	Game based pedagogical techniques adopted	Operating Sysems (18CS34)	Jyothi Shetty	Crossword Puzzles – The introductory topics of the operating systems course deals with various new terminologies and fundamental definitions. While wrapping up the session, to make more interesting a crossword puzzle was designed and shared with the students on the google classroom platform. 
4	https://cse02-iiith.vlabs.ac.in/List%20of%20experiments.html	Programming in C	Prapulla S B	

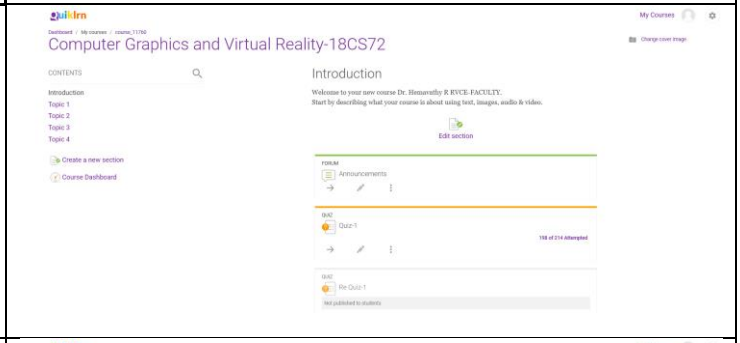
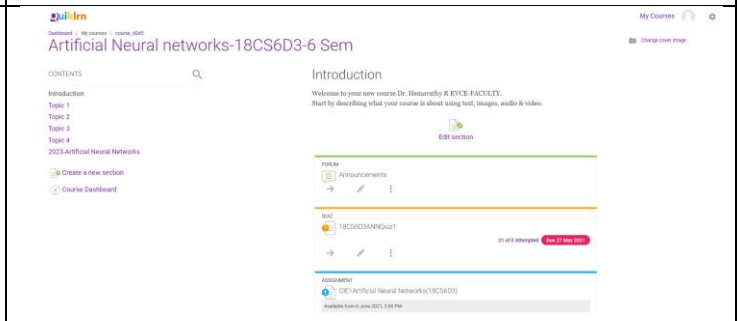
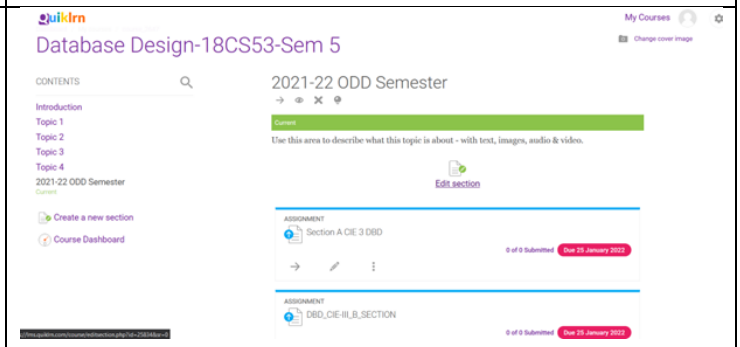
	http://vlabs.iitkgp.ac.in/coa/ https://de-iitr.vlabs.ac.in/ https://de-iitg.vlabs.ac.in/	21CS34-Foundations of computer systems design(FCSD) CS234AI-Applied digital logic design and Computer organization	Dr.Mohana	
6	Software Engineering Virtual Lab — IIT Kharagpur (iitkgp.ac.in)	Software Engineering	Dr H.Pavithra	
7	Information and Network Security	Information and Network Security	Dr. Sowmyarani C N	Cryptool https://www.cryptool.org/en/ct2/

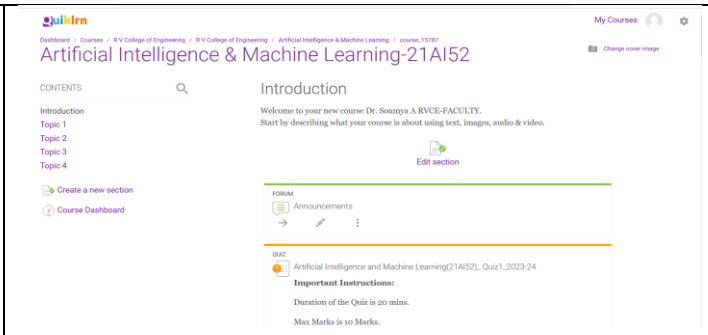
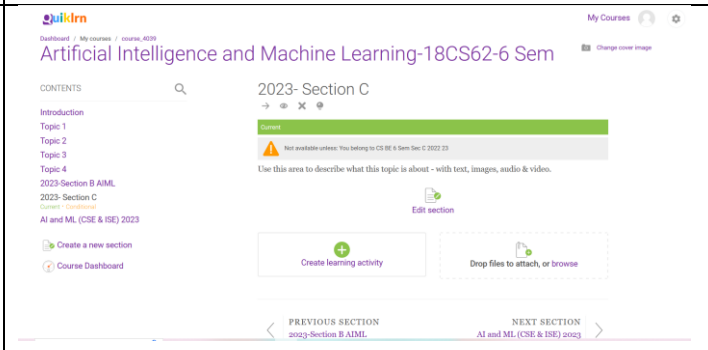
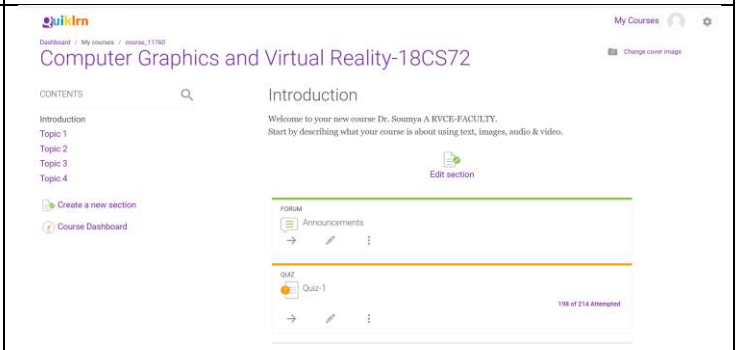
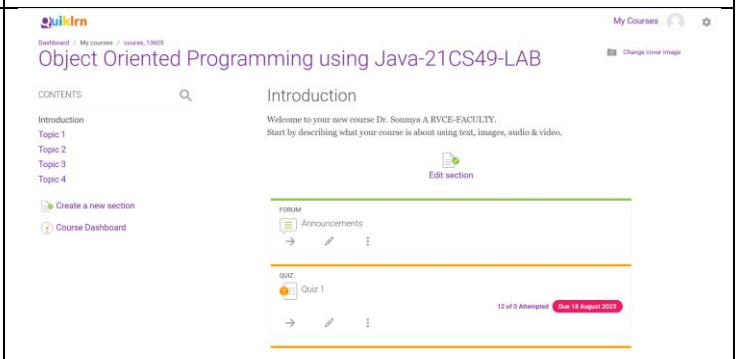
- ***Educational Apps and Software:*** There is a plethora of educational apps and software tailored to different subjects and age groups, providing interactive lessons, quizzes, and games to reinforce learning objectives.

Sl. No	*Name of Educational*	Name of the Course	Faculty Name	Photos of the Activity

	Apps and Softw are			
1	Quiklrn	DMS	Smriti Srivastava	
2	Quiklrn	FCSD	Prapulla S B	
3	Quiziz	FCSD	Prapulla S B	https://quizizz.com/admin/reports/615fe95c45ca75001f4a81f6?source=report 
4	Quiklrn	Principle of Programming Using C	Smriti Srivastava	
5	Quiklrn	Principle of Programming	Prapulla S B	

		Using C		
	Quiklrn	21CS34-Foundations of computer systems design(FCSD) CS234AI-Applied digital logic design and Computer organization 22EM206-Introduction to cybersecurity	Dr.Mohana	 CS234AI-Applied digital logic design and Computer organization  Introduction To Cyber Security-CS114BT/CS124BT
7	My tests - Testportal - online skills and knowledge assessments platform- for	Software Engineering	Dr H.Pavithra	 Software Engineering

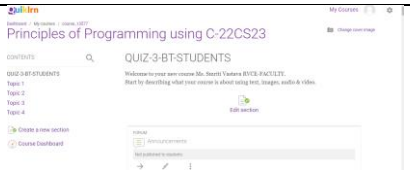
	lab viva			
8	Quiklrn	Computer Graphics & Virtual Reality	Dr. Hemavathy R	
9	Quiklrn	Artificial Neural Networks	Dr. Hemavathy R	
10	Quiklrn	Database Design(18CS53)	Dr.PratibaD	
11	Quiklrn	Introduction to Web Programming (CS115AIB)	Dr.PratibaD	

12	Quiklrn	Artificial Intelligence & Machine Learning(21AI52)	Dr Soumya A	
13	Quiklrn	Artificial Intelligence & Machine Learning(18CS62)	Dr Soumya A	
14	Quiklrn	Computer Graphics and Virtual Reality(18CS72)	Dr Soumya A	
15	Quiklrn	Object Oriented Using Java lab(21CS49)	Dr Soumya A	

2. Learning with ICT Tools:

ICT tools empower students to take ownership of their learning journey and access educational resources beyond the confines of the classroom. Some ways in which ICT tools facilitate learning include:

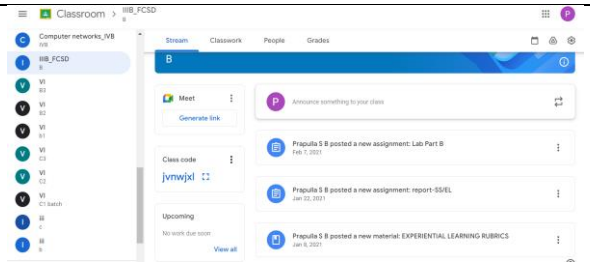
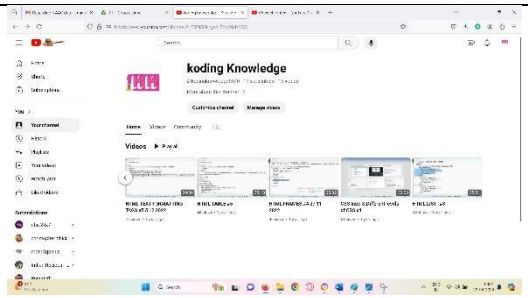
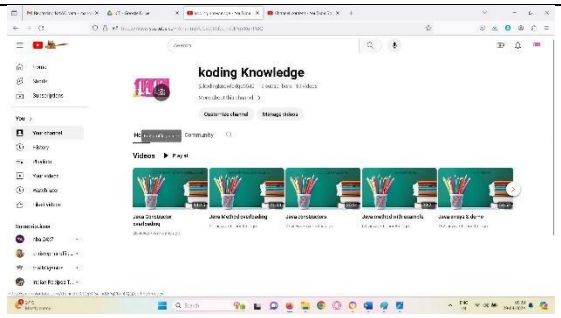
- ***Online Resources:*** The internet provides a vast repository of educational materials such as e-books, articles, videos, and tutorials, enabling students to supplement their learning and explore topics at their own pace.

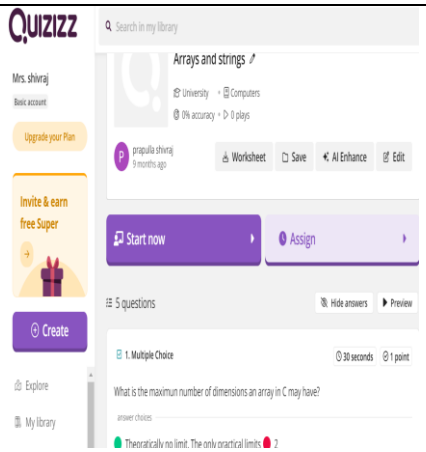
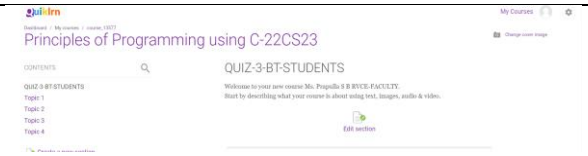
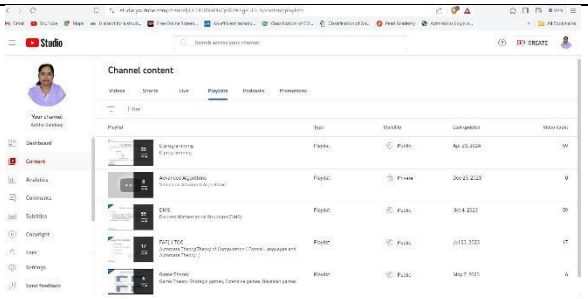
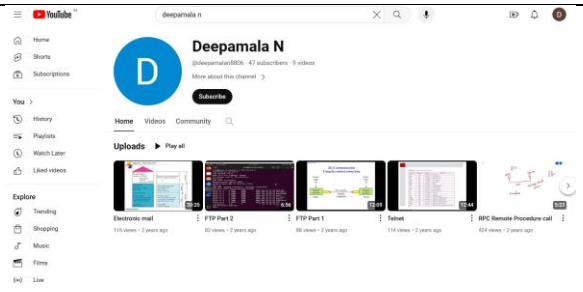
Sl. No	*Type of online resource*	Name of the Course	Faculty Name	Online resource link
1	Youtube Channel	DMS	Smriti Srivastava	www.youtube.com/@smritisrivastava6282
2	Quiklrn	Principle of Programming Using C	Smriti Srivastava	
3	Videos	Advanced Networks Management	Dr Nagaraja G.S	https://m.youtube.com/playlist?list=PL5VthiFd9slQRiCme5-soMQmLkx3b0D7
4	Videos	High Speed Networks	Dr Nagaraja G.S	https://www.youtube.com/watch?v=U37pniQcS9M&t=16s
5	Videos	Data Prepartion and Analysis	Dr Nagaraja G.S	https://www.youtube.com/watch?v=E7x-UvrZEaw&list=PL5VthiFd9slT8-cLJTvpC67QPXXEtC9Xn&pp=iAQB
6	Youtube	Computer	Hemavathy R	https://youtube.com/channel/UCScBqi4F6VTXG-B5vMKuK_A

	Channel	GRaphics		materiallink: https://drive.google.com/file/d/1SPqdBH4ng4fhu_7MN7HS3K1P3Ynhxpsr/view?usp=drive_link
7	Videos	Artificial Neural Networks	Hemavathy R	https://drive.google.com/drive/folders/1X5hCQiYQG2ngLdOVSx1eIpsJ5FI1PiRm1oDqgS9kQ2AHwSE-gQGNcCRF6I4PmlCkAqw7Eq-Y?usp=drive_link
8	Tool based Learning	Database Design(18CS53)	Dr.Pratiba D	URL: http://www.ict.griffith.edu.au/~jw/normalization/index.html

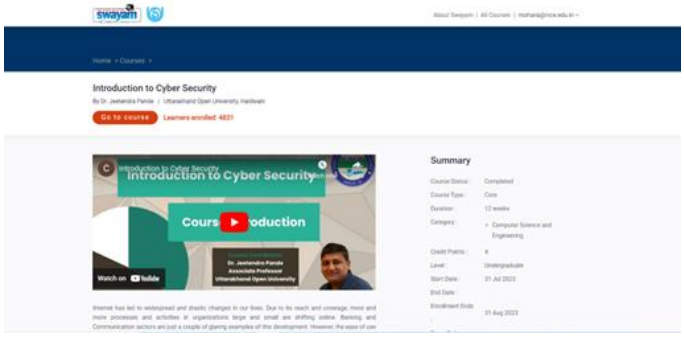
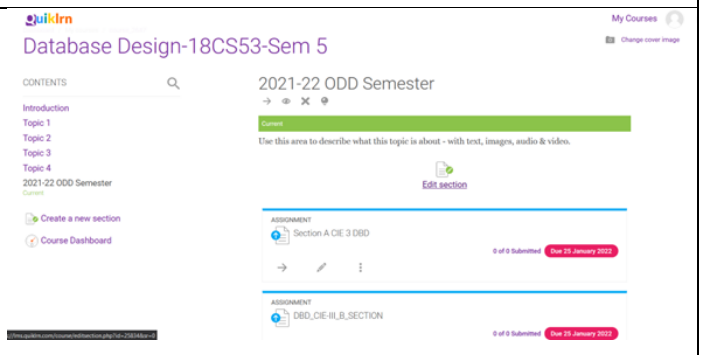
- ***E-Learning Platforms:*** Platforms like quiklrn, google Sites, Moodle, Blackboard, youtube or Canvas offer a centralized hub for course materials, assignments, discussions, and assessments, fostering a collaborative and structured learning environment.

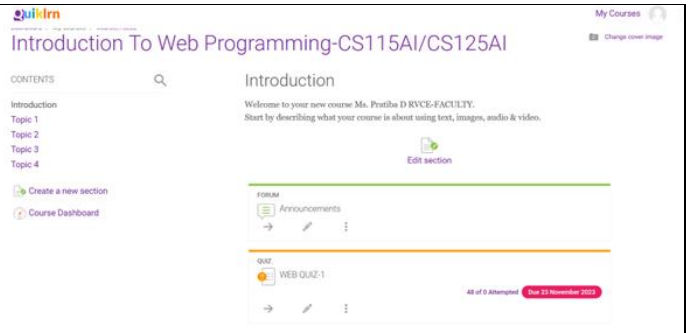
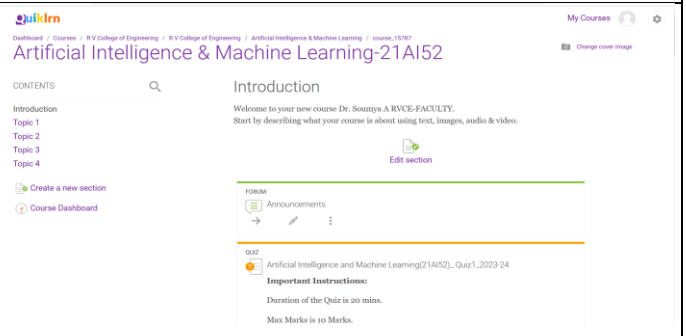
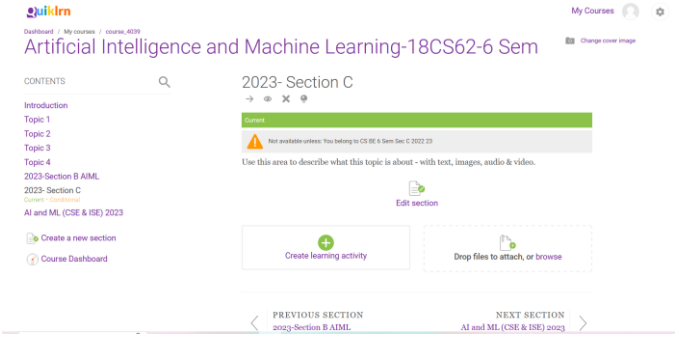
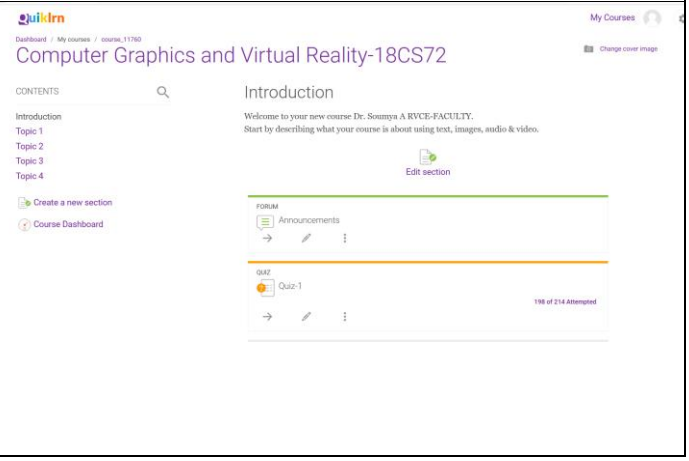
Sl. No	*Type of E-Learning Platforms & Purpose*	Name of the Course	Faculty Name	*E-Learning Platform* link
1	Quiklrn-Quiz and CIE Conduction	DMS	Smriti Srivastava	https://lms.quiklrn.com

2	Google classroom-LMS	FCSD(18cs35)	Prapulla s B	 https://classroom.google.com/u/0/c/MjE2NTE4OTQ5MjUx
3	Youtube	Web Technology (18IS6D1)	Manonmani S	
4	Youtube	Basics of java programming (CS115B1)	Manonmani S	
5	Youtube Channel-Lecture Videos	DMS	Smriti Srivastava	www.youtube.com/@smritisrivastava6282
6	Google sites	Computer networks	Prapulla S B	https://sites.google.com/rvce.edu.in/prapullas-site/psis-activity_study-materials
7	Quiklrn-Quiz Conduction	Principle of Programming Using C	Smriti Srivastava	https://lms.quiklrn.com

8	Youtube Channel-Lecture Videos	Principle of Programming Using C	Smriti Srivastava	www.youtube.com/@smritisrivastava6282
9	Quiziz	Principle of Programming Using C	Prapulla S B	 https://quizizz.com/admin/quiz/64d2730ed2b96f00079a2cfc?searchLocale=
10	Quiklrn.com	Principles of Programming Using C	Prapulla S B	 https://lms.quiklrn.com/course/view.php?id=13817
11	Youtube	C programming, DMS, FAFL	Anitha Sandeep	 Anitha Sandeep - YouTube
12	Youtube	Computer Networks	Dr. Deepamala N	 Deepamala N - YouTube

13	Videos	Advanced Networks Management	Dr Nagaraja G.S	https://m.youtube.com/playlist?list=PL5VthiFd9slQRiCme5-soMQmLkx3b0D7
14	Videos	High Speed Networks	Dr Nagaraja G.S	https://www.youtube.com/watch?v=U37pniQcS9M&t=16s
15	Videos	Data Preparation and Analysis	Dr Nagaraja G.S	https://www.youtube.com/watch?v=E7x-UvrZEaw&list=PL5VthiFd9slT8-cLJTvpC67QPXXEtC9Xn&pp=iAQB
16	Quiziz	Advances in Algorithms 2021-2022	Dr. Sandhya S	https://quizizz.com/join?gc=0565736&from=challengeFriends
17	google docs	Advances in Algorithms 2021-2022	Dr. Sandhya S	https://docs.google.com/forms/d/e/1FAIpQLSd7G8X3Ats0-MyclMnUEYw1BDf_EvIvSiiEW7IZ3A-Ts16FYw/viewform?usp=sf_link
18	google sites	Advances in Algorithms 2021-2022	Dr. Sandhya S	https://sites.google.com/rvce.edu.in/dr-sandhya-s-aa/aa-home
19	google sites	Advances in Computer Networks 2021-2022	Dr. Sandhya S	https://sites.google.com/rvce.edu.in/sans-acnfeb2022/home

20	NPTEL Quiklrn-Quiz and CIE Conduction	Introduction to cybersecurity	Dr.Mohana	 https://onlinecourses.swayam2.ac.in/nou23_cs10/preview https://lms.quiklrn.com
	Google Site	Computer Graphics	Dr. Hemavathy R	Website: https://sites.google.com/rvce.edu.in/hemavathyr/home
	Google Site	Database Design(18CS53)	Dr.Pratiba D	Website Link: https://sites.google.com/rvce.edu.in/drpratibad/home
	Quiklrn	Database Design(18CS53)	Dr.Pratiba D	

	Quiklrn	Introduction to Web Programming(CS115AIB)	Dr.Pratiba D	
	Quiklrn Quiz Conduction	Artificial Intelligence & Machine Learning(21AI52)	Dr Soumya A	
	Quiklrn Quiz Conduction	Artificial Intelligence & Machine Learning(18CS62)	Dr Soumya A	
	Quiklrn Quiz and CIE Conduction	Computer Graphics and Virtual Reality(18CS72)	Dr Soumya A	

	Quiklrn Assessment	Object Oriented Using Java lab(21CS49)	Dr Soumya A	

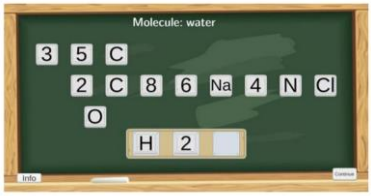
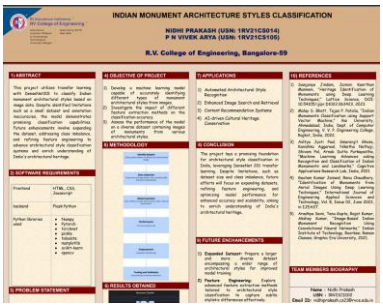
- ***Adaptive Learning Systems:*** ICT tools leverage adaptive learning algorithms to personalize the learning experience based on each student's strengths, weaknesses, and learning pace, ensuring tailored instruction and optimal comprehension.

Sl.No	*Type of Adaptive Learning Systems*	Name of the Course	Faculty Name	*What is the outcome*
1	Flipped Classroom	DMS	Smriti Srivastava	Inclined towards real time problem solving.
2	Think pair share	FCSD(18cs35)	Prapulla S B	Logic puzzle solving, optimized solutions
3	PSIS activity(Peer supported Independent study)	CN	Prapulla S B	Exploring different learning styles of students and assigning activities based on their interest
4	Flipped Classroom	Computer Graphics	Dr. Hemavathy R	Problem Solving in 2D & 3D geometrical transformation exercise.

5	PSIS activity(Peer supported Independent study)	Advances in DataBase Management & Mining	Dr. Hemavathy R	Exploring Different online editor for SQL and XML database framework.
6	Role Play Activity	Database Design(18CS 53)	Dr.Pratiba D	Exploring the topic "Actors on the scene and workers behind the scene"
7	Think-Pair-Share Activity	Database Design(18CS 53)	Dr.Pratiba D	Exploring the topic "ER Diagram for various databases"
8	Tool based Learning			

- ***Collaborative learning techniques/Tools***: Tools like Google Workspace, Microsoft Office 365, or collaborative whiteboard apps facilitate group projects, peer review, and collaborative problem-solving, promoting teamwork and communication skills.

Sl.No	*Name of Collaborative learning techniques/Tools*	Name of the Course	Faculty Name	Photos of the Activity	Which Semester/Year
1.	Experiential learning	FCSD	Prapulla S B		3rd sem /2021
2.	EL	DMS	Smriti Srivastava	https://drive.google.com/drive/folders/1zeD4k98-	3rd Sem/2

				tzW4bkLiiXLhIoRCaV2KKo9y?usp=drive_link	021-22
3	Flipped classroom	CN	Prapulla S B	https://docs.google.com/document/d/11oKDZLtkOCTj7cZqFC45IQmVtg8jGbVP/edit#heading=h.gjdgxs	4th sem/2021-22
4.	Experiential learning (Open-Ended Project Based Learning)	Computer Graphics and Virtual Reality	Dr Soumya A	https://drive.google.com/drive/folders/1K_3YGavr-D7ZBn_Hh1y-wT6U1tWdTbWF  Fig 4.2: The information clipboard when you first enter the "Lab" scene.  Fig.4.5: The interface of the "Molecule Naming" quiz.	th Sem/ 2023-24
	Experiential learning (Open-Ended Project Based Learning)	Artificial Intelligence & Machine Learning	Dr Soumya A	https://drive.google.com/drive/folders/10g18pkI9RM1y3InuPYi2XKUjE3l9mISL  	5th Sem/ 2023-24

3. Evaluation with ICT Tools:

ICT tools offer innovative solutions for assessing student progress and providing timely feedback. Some methods of evaluation using ICT tools include:

- ***Online Assessments:*** Platforms like quiklrn , Kahoot, Quizizz, or Google Forms enable teachers to create and administer quizzes, tests, and surveys electronically, automating grading and providing instant feedback to students.

Sl. No	*Name of Online Assessment tool*	Name of the Course	Faculty Name	Type of the event assessment	Which Semester/ Year
1.	Quiklrn	DMS	Smriti Srivastava	Quiz and CIE Conduction	3rd sem/2020-21
2	Quiklrn	FCSD	Prapulla S B	Quiz and CIE Conduction	3rd sem/2020-21
3	quizzizz	CN	Prapulla S B	Quiz Conduction https://quizizz.com/admin/reports/60a3e660bb0b10001d51f6b4/players	4th sem/2021-22
4	Quiklrn	Principle of Programming Using C	Smriti Srivastava	Quiz Conduction	2nd sem/2022-23
5	Quiklrn	Programming Using C	Prapulla s B	Quiz Conduction	2nd sem/2022-23
6	Quiklrn	Advanced Networks Management	Dr Nagaraja G.S	QUIZ Component	2-PGCNE-2019-2020,2021

7	Quikl rn	High Speed Networks	Dr Nagaraja G.S	QUIZ-Component	3-PGCNE-2019,2020 ,2021
8	Quikl rn	Data Preparation and Analysis	Dr Nagaraja G.S	QUIZ-Component	I-PGCSE
9	Quikl rn	Operating System Design	Dr. Azra Nasreen	Quiz Conduction	3-PGCSE-2021
10	Quikl rn	CS234AI-Applied digital logic design and Computer organization 22EM206-Introduction to cybersecurity	Mohana	Quiz Conduction and EL Evaluation	2022-23 and 2023-24
11	Quikl rn	Artificial Neural Networks	Dr. Hemavathy R	Quiz Conduction	6 the sem CSE-2022
12	Quikl rn	Computer Graphics	Dr. Hemavathy R	Quiz Conduction	7th the sem CSE-2022, 21-22,22-23
13	Quikl rn	Principle of Programming Using C	Dr.Pratiba D	Quiz Conduction	2nd sem/2022-23
14	Quikl rn	Introduction to Web Programming	Dr.Pratiba D	Quiz Conduction	1st/2nd sem/2022-23

15	Quiklrn	Database Design	Dr.Pratiba D	Quiz Conduction	5th sem/2022-23
12	Quiklrn	Object Oriented Programming Using Java	Dr. Soumya A	Quiz Conduction	4th the sem CSE-2018-19, 2019-20, 2020-21 2021-22
13	Quiklrn	Computer Graphics	Dr. Soumya A	Quiz Conduction	7th the sem CSE-2020-21, 21-22,22-23, 2023-24
14	Quiklrn	Artificial Intelligence & Machine Learning	Dr. Soumya A	Quiz Conduction	5th the sem CSE-2023-24 6th the sem CSE-2022-23

- ***E-Portfolios:*** Digital portfolios allow students to showcase their work, reflections, and achievements over time, providing a holistic view of their learning journey and enabling self-assessment and peer feedback.

Sl. N	*Name of* E-Portfolios	Name of the Course	Faculty Name	Type of the work assessment	Which Semester/Year

1	Infosys springboard	Programming Using C	Prapulla S B	Online assessment https://drive.google.com/drive/u/0/folders/1fPLcpoX8HpNq90qYMOr9hRN320idD1uX	2nd sem/2022-23
2	Infosys springboard	Virtual Reality	Hemavathy R	https://docs.google.com/spreadsheets/d/1F0BS6Idaami1sb1gnoMUUEDjKdQnBzbwk6Bs8fBELc8/edit#gid=0	7th Sem/2022-23

- ***Learning Analytics:*** ICT tools collect and analyze data on student performance and engagement, allowing educators to identify trends, assess the effectiveness of instructional strategies, and tailor interventions to meet individual learning needs.

Sl.No	*Name of Learning Analytics*	Name of the Course	Faculty Name	Type of the work assessment	Which Semester/Year
1.	Quiklrn	DMS	Smriti Srivastava	Quiz Assessment	3rd Sem/2020-21
2.	Quiklrn	FCSD	Prapulla S B	Quiz Assessment	3rd Sem/2020-21
3	Quiklrn	ANN	Hemavarthy R	Quiz Assessment	6th Sem/ 2020-21, 22-23
4	Quiklrn	CG& VR	Hemavarthy R	Quiz Assessment	7th Sem/ 2020-21, 22-23
5	Quiklrn	Object Oriented Programming Using Java	Dr. Soumya A	Quiz Conduction	4th the sem CSE- 2018-19, 2019-20, 2020-21 2021-22

6	Quiklrn	Computer Graphics	Dr. Soumya A	Quiz Conduction	7th the sem CSE-2020-21, 21-22,22-23, 2023-24
7	Quiklrn	Artificial Intelligence & Machine Learning	Dr. Soumya A	Quiz Conduction	5th the sem CSE-2023-24 6th the sem CSE-2022-23

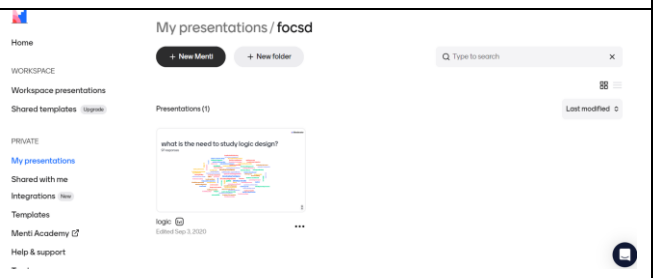
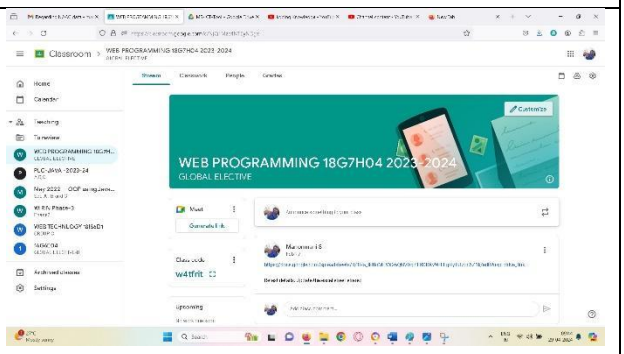
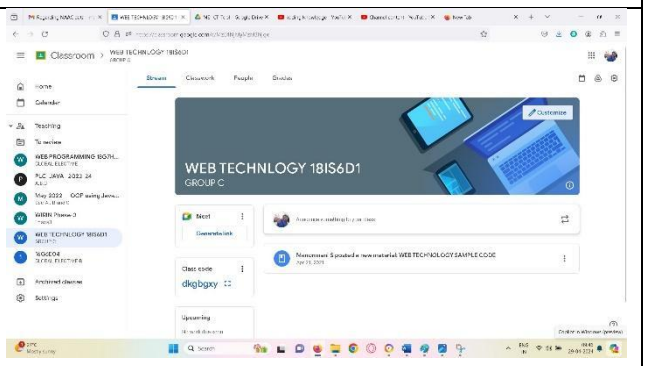
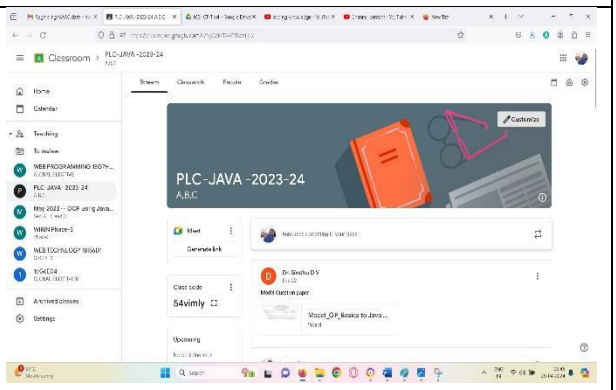
- ***Plagiarism Detection:*** With the proliferation of online resources, plagiarism has become a concern in academic settings. Plagiarism detection software like Turnitin or Grammarly can help educators identify and address instances of academic dishonesty.

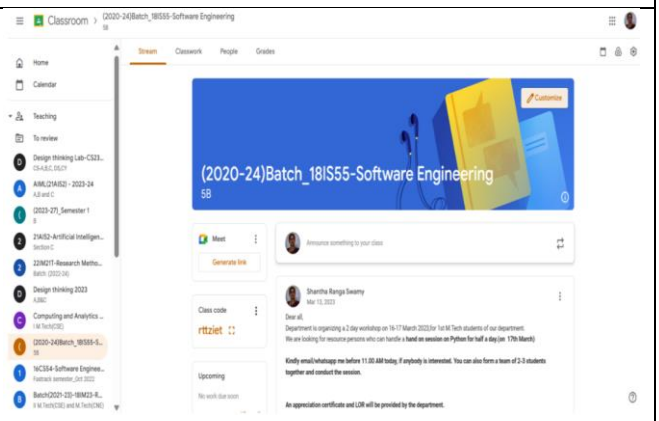
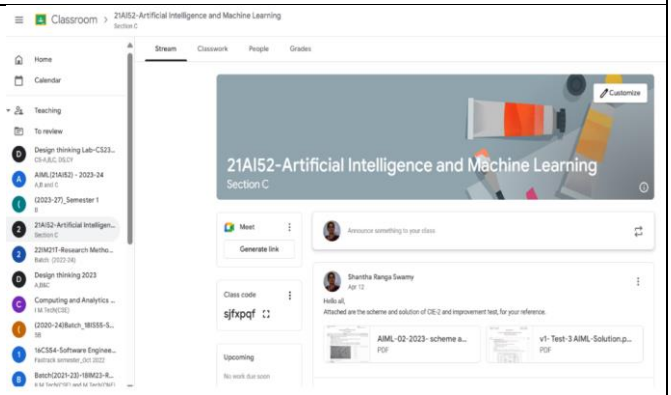
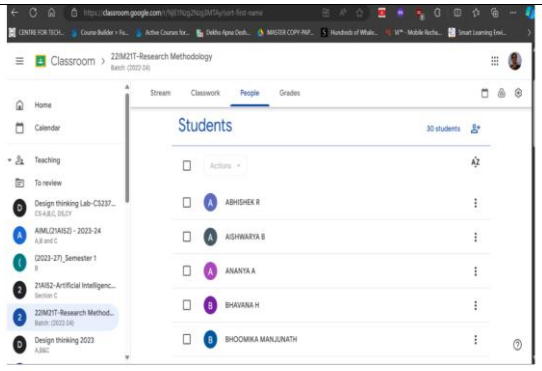
Sl.No	*Name of Plagiarism Detection tool*	Name of the Course	Faculty Name	Name of the activity
1	Turntin	Advanced Networks Management-2018-19, 2019-20, 2020-21	Dr Nagaraja G.S	Construction of Research paper
2	Turntin	High Speed Networks 2018-19, 2019-20, 2020-21	Dr Nagaraja G.S	Construction of Research paper
3	Turntin	Data Preparation and Analysis 2020-21,2021-2022	Dr Nagaraja G.S	Construction of Research paper

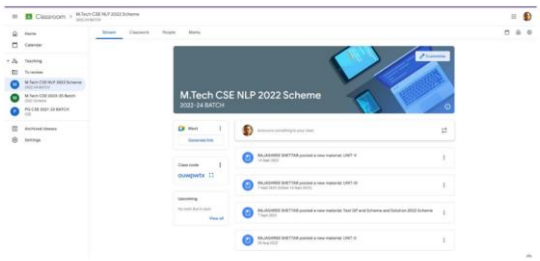
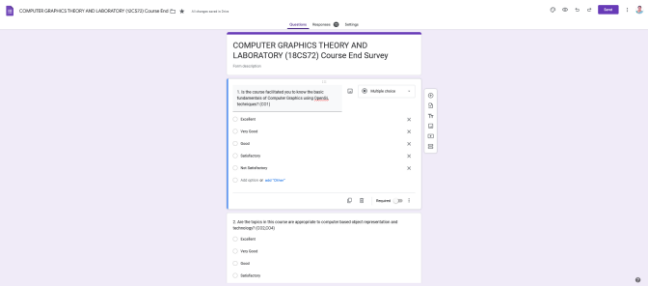
4	Turntin	Network Programming 2022-2023	Dr Nagaraja G.S	Construction of Research paper
5	Turntin and Drill bit tool	CS234AI-Applied digital logic design and Computer organization 22EM206-Introduction to cybersecurity	Dr.Mohana	For Research paper preparation and publication
6	Turnitin	16CS52: Database design and 18CS53:Database Design	Dr. Sowmyarani C N	For Research Paper
7	Turnitin and Drill bit	Database Design(18CS53)	Dr.Pratiba D	Research Paper
8	Turnitin and Drill bit	Major Project/Minor Project/ Technical Seminar (B.E and MTech)	Dr Soumya A	For drafting and Paper Publication

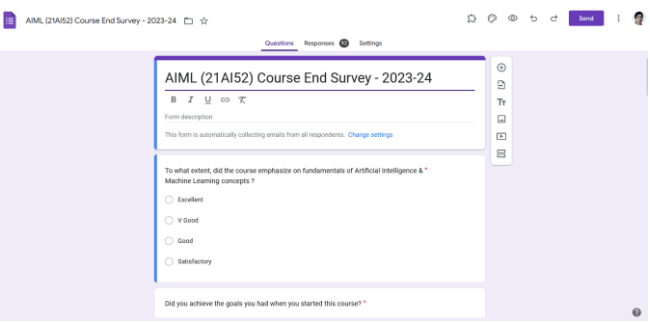
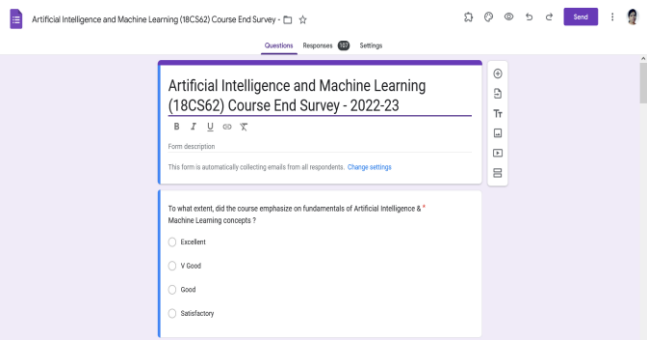
Feedback and Communication Tools: ICT tools facilitate timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts, and ongoing dialogue to support learning and growth.

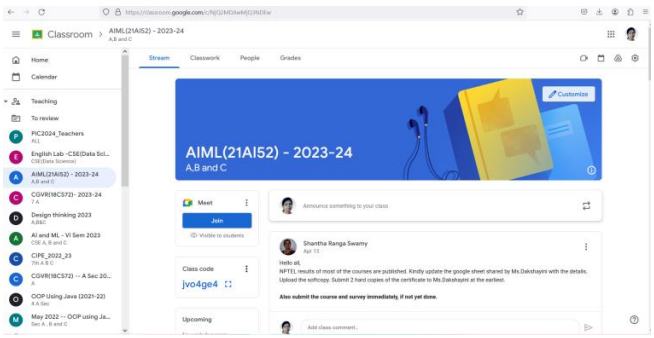
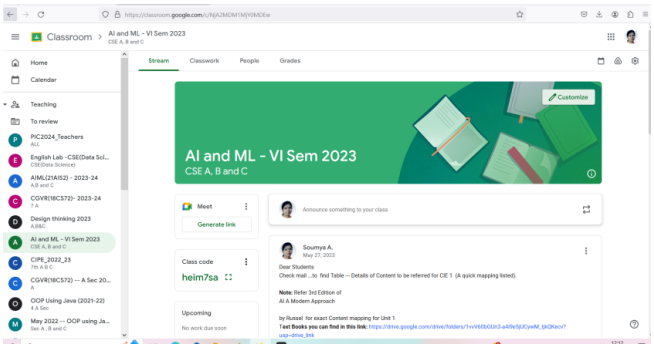
Sl.No	*Name of* Feedback and Communicat	Name of the Course	Faculty Name	Name of the activity

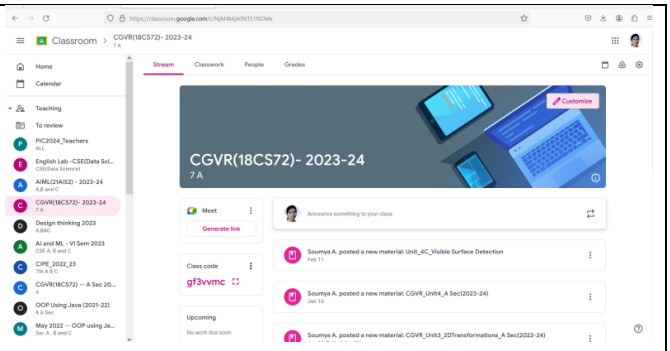
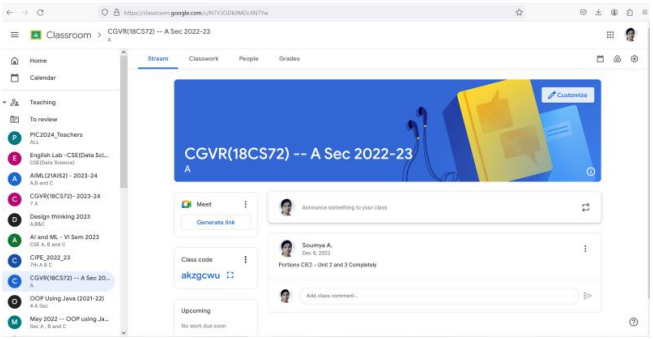
	ion Tools			
1.	Google Form	DMS	Smriti Srivastava	Course End Survey
2	Menti meter	FOCSD	Prapulla S B	 Feedback
3	Google Classroom	Web programming (18G7H04)	Manonmani S	
4	Google Classroom	Web Technology (18IS6D1)	Manonmani S	
5	Google Classroom	PLC-JAVA 2023-24	Manonmani S	

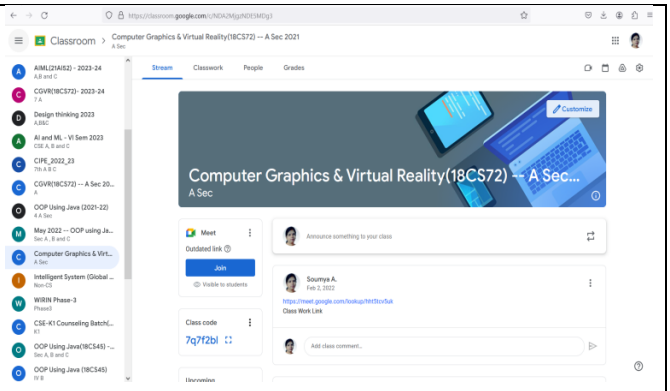
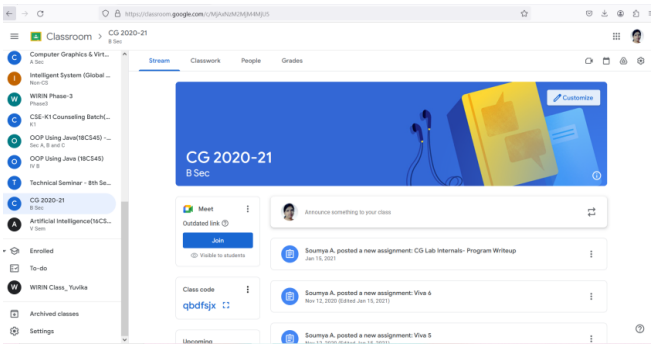
6	Google Form	DMS	Smriti Srivastava	Course End Survey
7	Google form	CN	Prapulla S B	Feedback for Jigsaw activity https://docs.google.com/forms/d/17LkM2JTzsYFG1D_0UyYQN_iGjRz5XHULnCl4-xX7j30/edit#response=ACYDBNhu_pZJ_jq9MX2Sn2O0c8oxsOkFKSpGFUYZ_-_qTu2BX_GutMEPowI3hM8geFkXZRo
8	Google Form	CN	Prapulla S B	https://docs.google.com/forms/d/1uhfW6iAemfZalbHji93mEXTv1PKPW10yVGPymbA4jtQ/edit?ts=61305491#responses
9	Google classroom	Software Engineering (18IS55)	Dr. Shanta Rangaswamy	
10	Google classroom	Artificial Intelligence and Machine Learning (21AI52)	Dr. Shanta Rangaswamy	
11	Google classroom	Researcg Methodology (21IM21T)	Dr. Shanta Rangaswamy	

12	Google Classroom	Natural Language Processing (M.Tech)	Dr. Rajashree Shettar	
13	Google Form	CS234 AI-Applied digital logic design and Computer organization 22EM206-Introduction to cybersecurity	Dr.Mohana	Course End Survey 
14	google Form	18CS72, CG&VR	Dr. Hemavathy R	Course End Survey 
15	google Form	M.Tech CSE ADBMS	Dr. Hemavathy R	Course End Survey

		(2022-24)		https://docs.google.com/forms/d/1flP3vABddbPz7P6BIJd_oaH_60Ki5QwaxAwVx_Bjbzg/edit
16	Google Form	B.E. 5th Sem Artificial Intelligence and Machine Learning (21AI52) (2023-24)	Dr Soumya A	Course End Survey https://docs.google.com/forms/d/16F8OoPgsTOqNWyR82JjXPLAUWV-VsApQGGLoph_HUn4/edit 
17	Google Form	B.E. 6th Sem Artificial Intelligence and Machine Learning (18CS62) (2023-24)	Dr Soumya A	Course End Survey https://docs.google.com/forms/d/1INaBGcJCCZyEr3Fdv1KJiuUEd5l_hPthDJZ3pFqCM9A/edit 

18	Google classroom	Artificial Intelligence and Machine Learning (21AI52)	Dr Soumya A	https://classroom.google.com/c/NjQ2MDAwMjQ3NDEw 
19	Google classroom	Artificial Intelligence and Machine Learning (18C62)	Dr Soumya A	https://classroom.google.com/c/NjA2MDM1MjY0MDEw 
20	Google classroom	Computer Graphics and Virtual Reality (18CS72)	Dr Soumya A	Computer Graphics and Virtual Reality (18CS72) (2023-24) https://classroom.google.com/c/NjM4MjA0NTE1NDMx

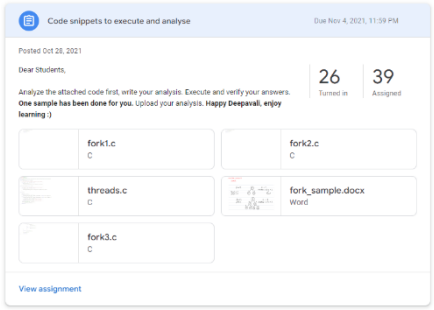
				 Computer Graphics and Virtual Reality (18CS72) (2022-23) https://classroom.google.com/c/NTY3ODk0MDc4NTYw  Computer Graphics and Virtual Reality (18CS72) (2021-22) https://classroom.google.com/c/NTY3ODk0MDc4NTYw

				 Computer Graphics (16CS73) (2020-21) https://classroom.google.com/c/NTY3ODk0MDc4NTYw 

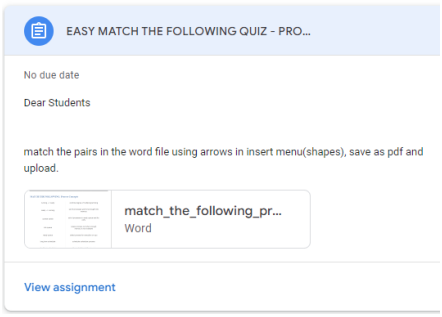
Game based pedagogical techniques adopted	Operating Sysems (18CS34)	Jyothi Shetty

Code Analysis – For better understanding the concepts of process creation and thread creation, some code snippets where shared with the students. Students were require to execute the code and justify the output. This would provide them with more clarity on the concepts and the working of fork() and

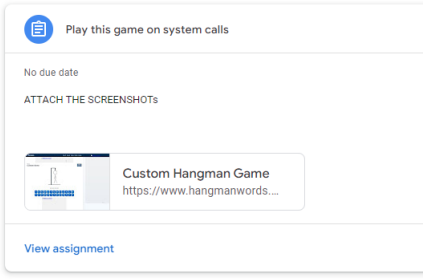
pthread_create() APIs. This reverse engineering task would make the students to actively think and analyse and hence interesting

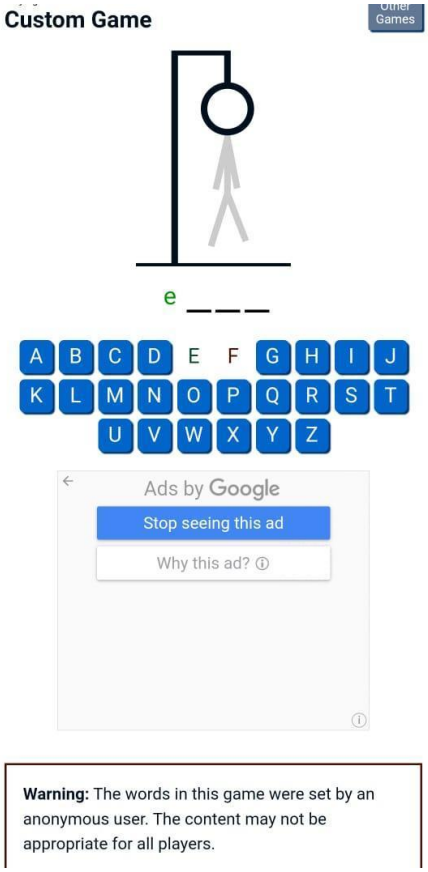


Match the following– This simple yet effective technique helps the students to relate and connect the concepts in an interesting way.



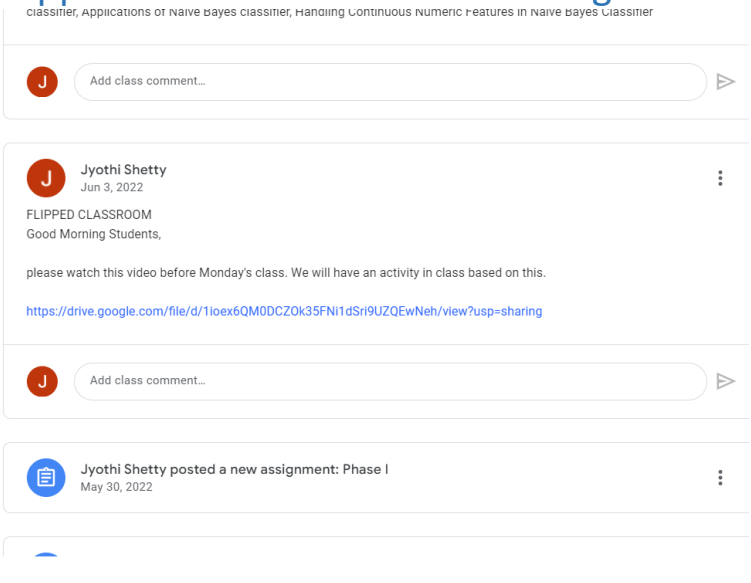
Hangman game - The introductory topics of the operating systems course deals with various new terminologies and fundamental definitions. While wrapping up the session, to make more interesting a hangman game was designed and shared with the students on the google classroom platform.



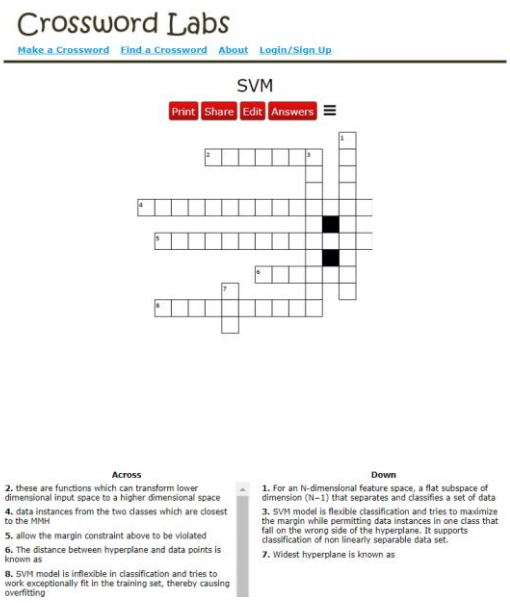


Course Name: Machine Learning (18CS6D1)

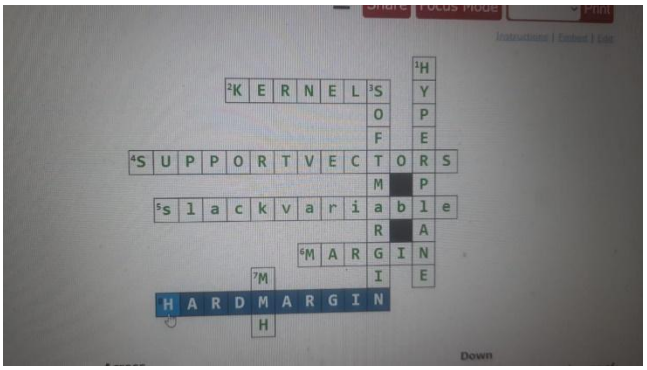
Flipped Classroom - Active Learning

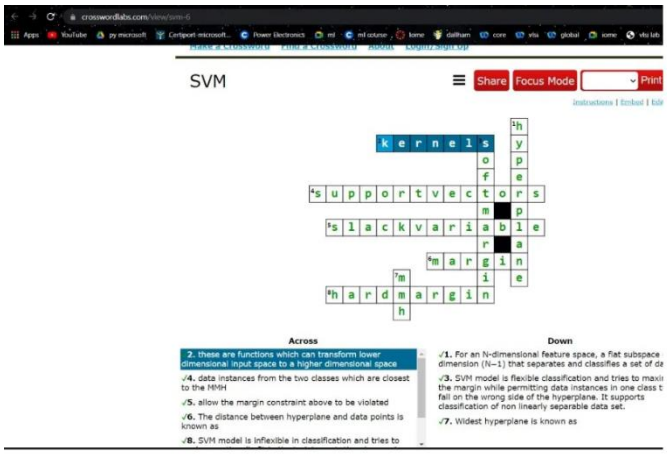


Game based pedagogy



Sample submission by student





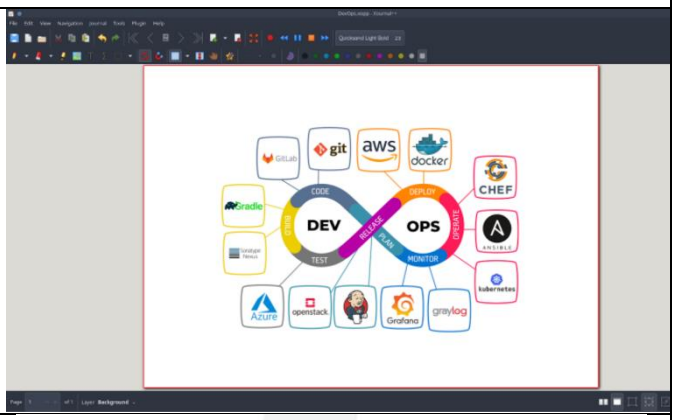
MASTER OF COMPUTER APPLICATIONS

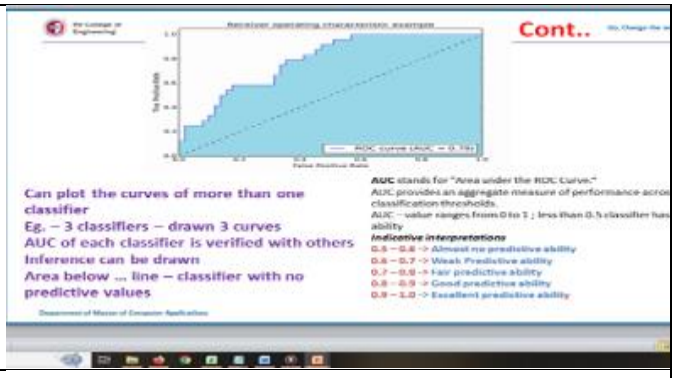
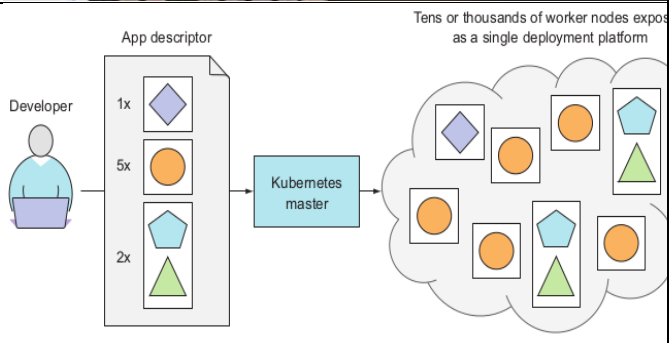
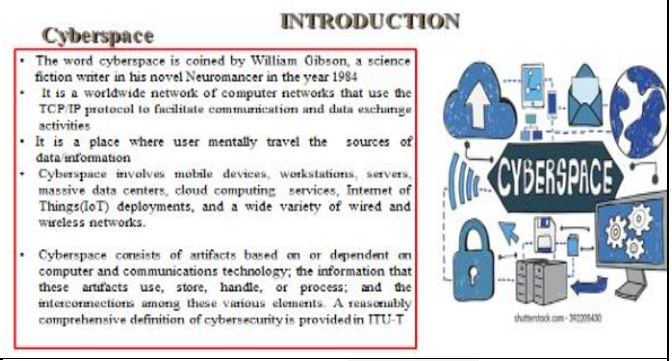
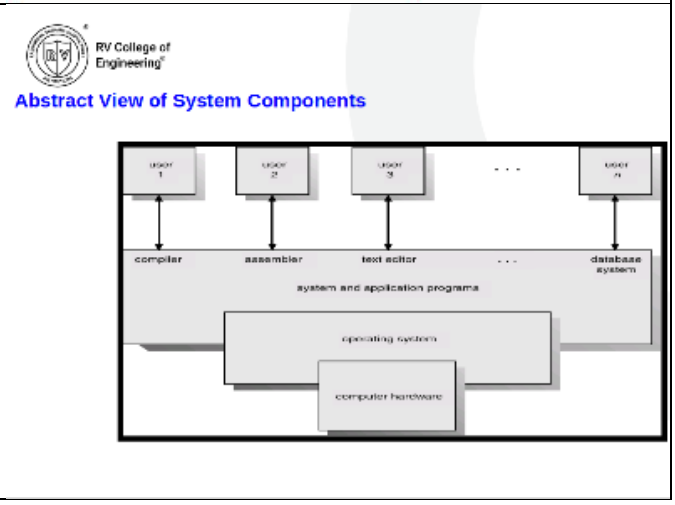
The influence and adoption of ICT in the Department of MCA is extensive. The various ICTs used at the department are power point presentation, digital boards, video recordings by faculty, demonstration of concepts through online tools and simulators, online meeting platforms for discussions and reviews are the most prominent among many other ICT tools.

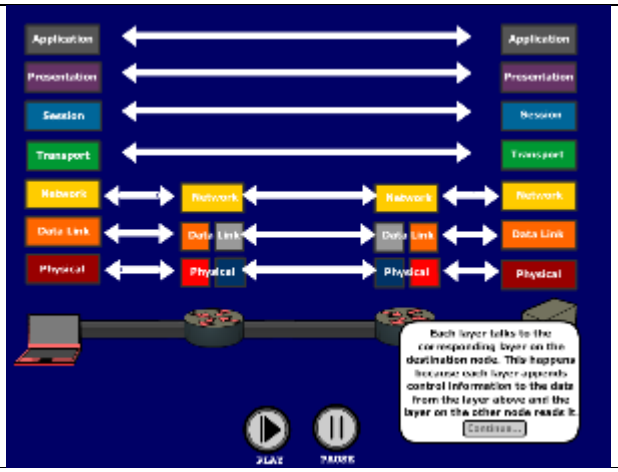
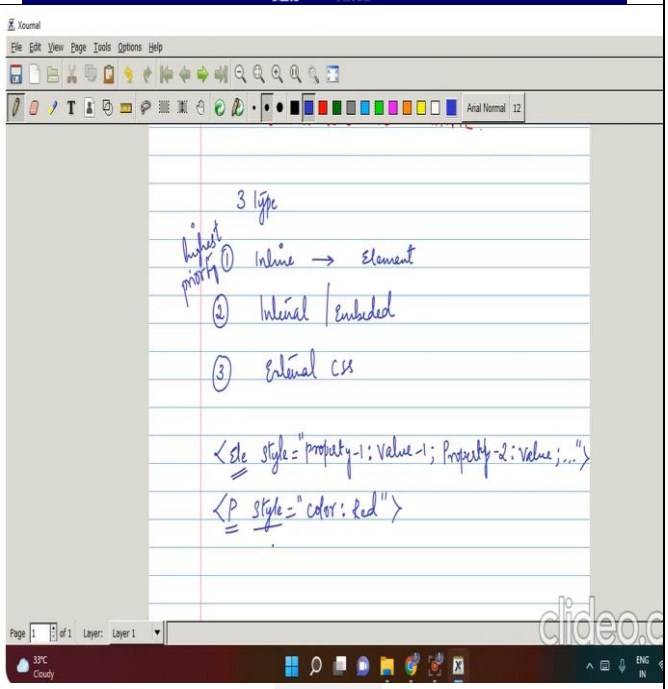
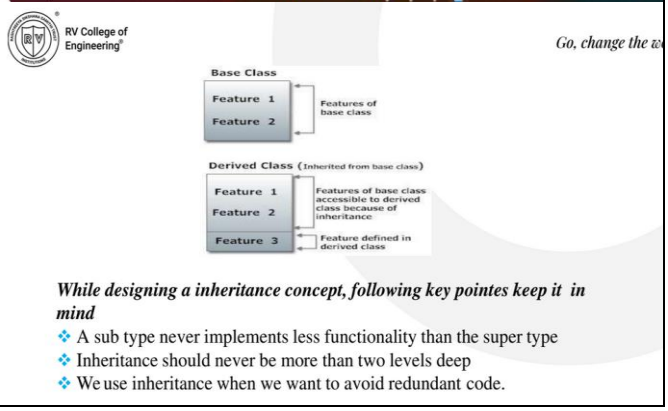
1. Teaching with ICT Tools:

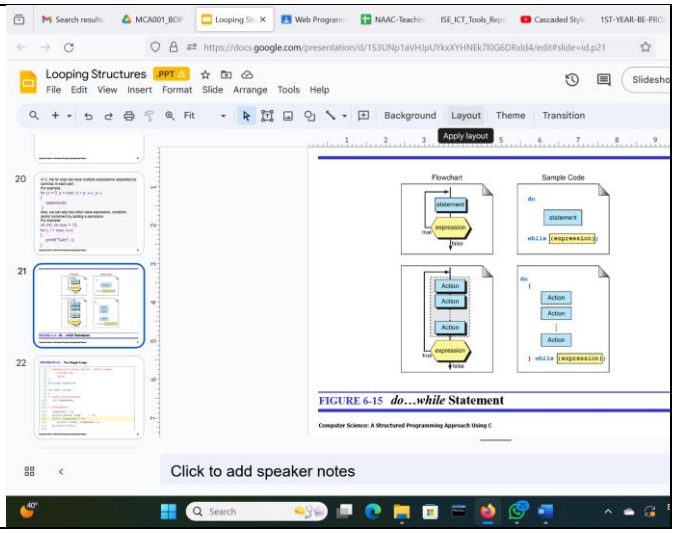
ICT tools offer educators a plethora of opportunities to engage students and make learning more interactive and effective. Some common ICT tools used for teaching include:

- ***Presentation Software:*** Platforms like Microsoft PowerPoint, Google Slides, or Prezi enable teachers to create visually appealing presentations to deliver content in an organized and engaging manner.

Sl. No	Name of the Faculty	*Presentation Software used*	Sample Screen shot of any one course
1.	Dr. Deepika K	Xournal++	
2.	Dr. Jasmine K S	Microsoft Power point	

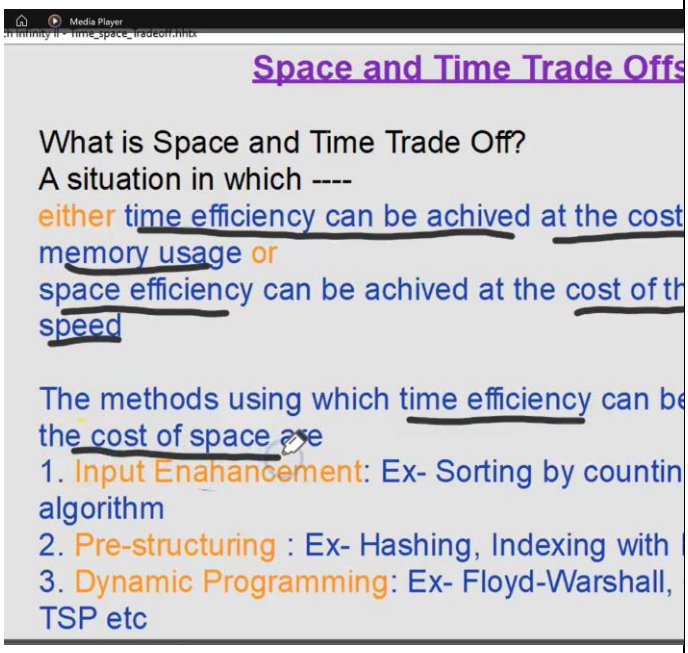
3.	Dr. Andhe Dharani	Microsoft PowerPoint	
4.	Prof. Prashanth K	Google Slides	 Figure 1.8 Kubernetes exposes the whole datacenter as a single deployment platform.
5.	Dr.Mohanaradhya	Power point presentation	
6.	Dr. B.H.Chandrashekar	LibreOffice-Impress	

7.	Dr.jayasimha S R	Adobe Flash player	
8.	Dr. Preethi N Patil	Xournal++	
9.	Prof. Saravanan C	MS Power Point	

10.	Prof. Savita S	Google Slides	

- ***Interactive Whiteboards:*** Interactive whiteboards facilitate dynamic teaching by allowing educators to display multimedia content, annotate, and interact with digital materials in real-time, fostering active participation among students.

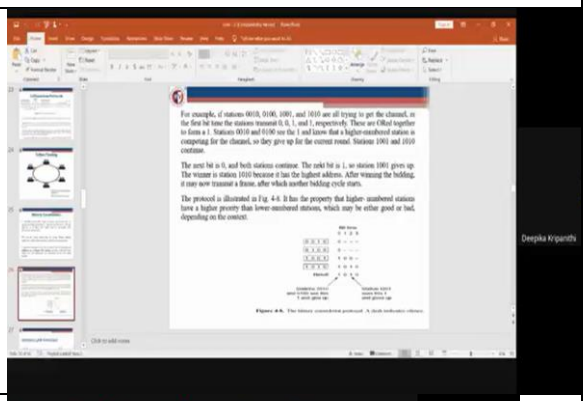
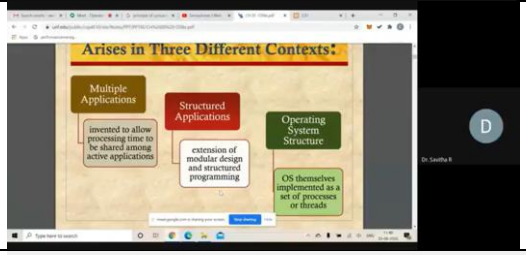
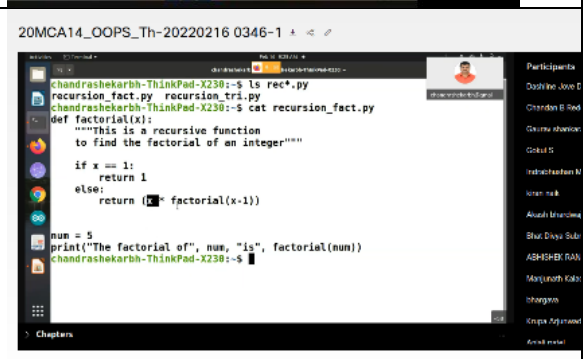
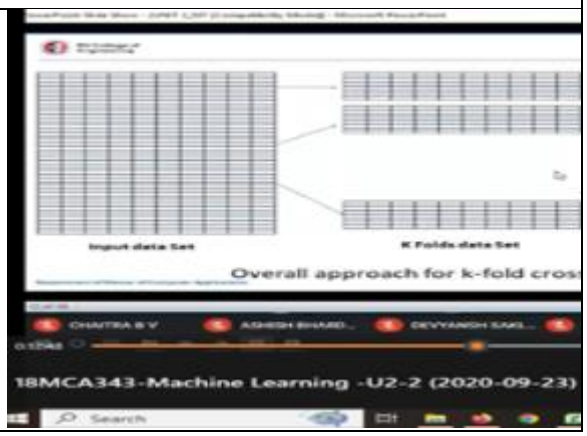
Sl. No	No of Interactive Boards in the Department	Specifications of the whiteboard	Image of the whiteboard (smart board)	List the applications, faculties have explored (Like for annotation, real time interaction etc..)
	06	1-Connoi Interactive Board-**01No** **(**Lab3) Connoi Interactive Panel		Windows-OS, Browsers, VLC Media, Presentation, Google Meet etc and

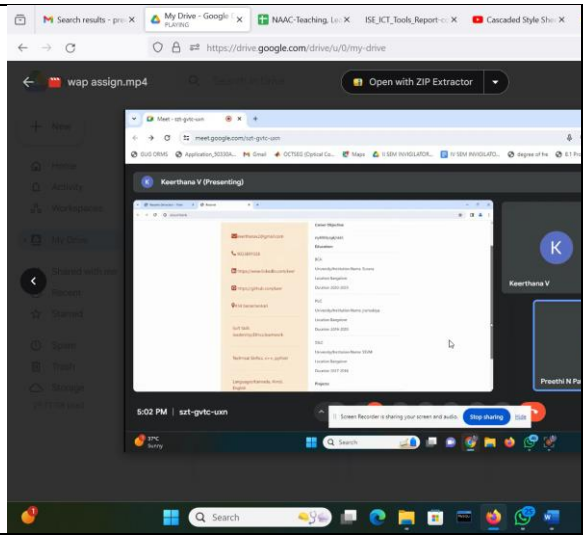
		CGT75 with built in PC-OPS [AMDA8-4500M $core 1.95GHZ, 4GB RAM, 256GB MSATA HDD] Mobile Metal Stand Interactive Flat Panel 2-MaxHub-**02Nos**(MC005 & MC213) MAXHUB Smart Interactive Display - E7ZOCE - 75" 4K 1R Touchscreen with Android 11/4GB 32GB RAM/ROM 11th GEN Processor. 8GB	  	WIfi Connection with Internet facilities MS-Windows-OS and Android With Browsers VLC Media, Presentation, Writing Board, and Wifi Interent Faciliti es

		/ 128GB SSD WC W230 Web Camera 3-Logical Interactive Display - **03Nos**(MC210, MC206 & IoT Lab) Logic Display 03 LT-1R86AX-AiO Computer 861NCH STP-AVIOTH 2113 / OPS-AX1ji58 /256 11Gen Intel Core i5 8GB/256 SSD		

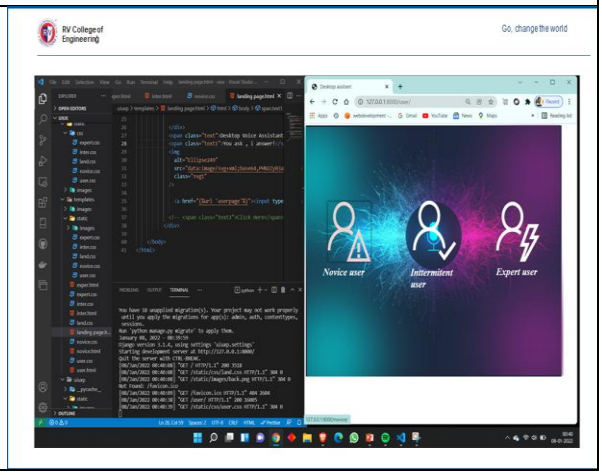
- **Video Conferencing:** Tools such as Zoom, Microsoft Teams, or Google Meet have become indispensable for remote or hybrid learning scenarios, enabling live virtual classes, guest lectures, and collaborative projects.

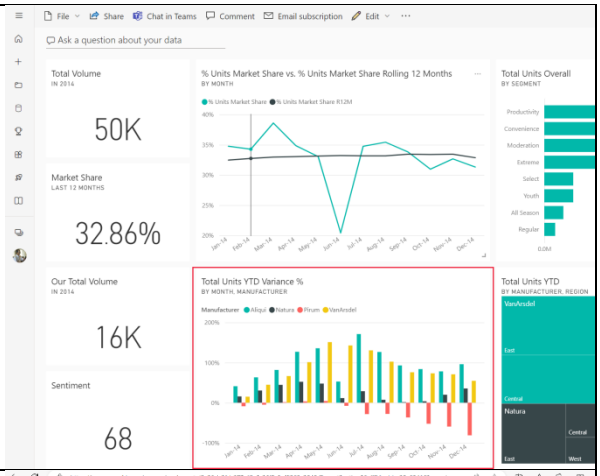
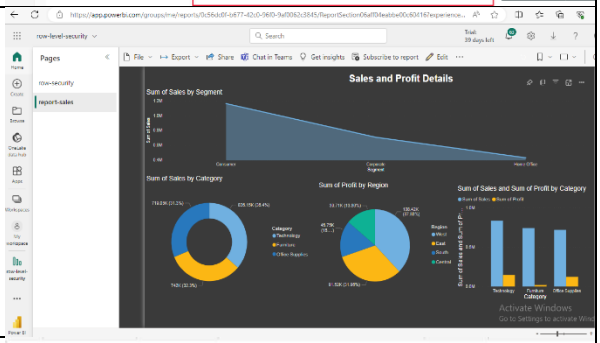
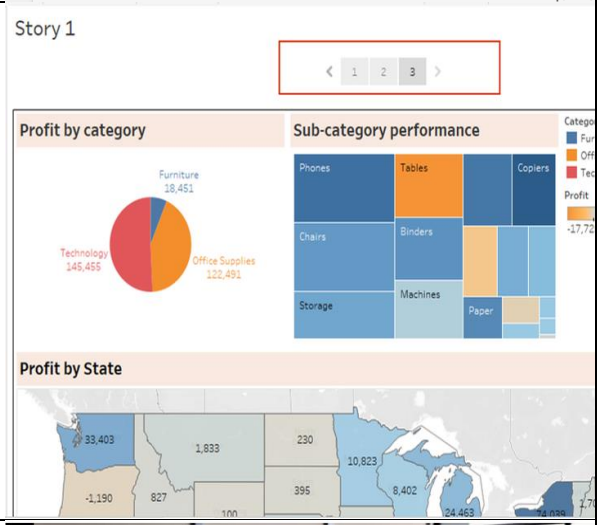
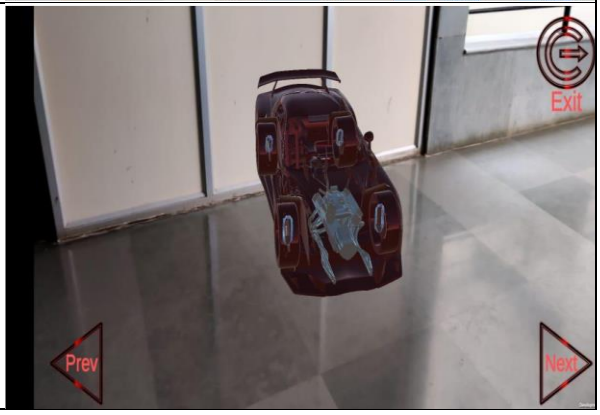
Sl. No	Video Conference	Purpose of the usage	Faculty Name	Photos of the event

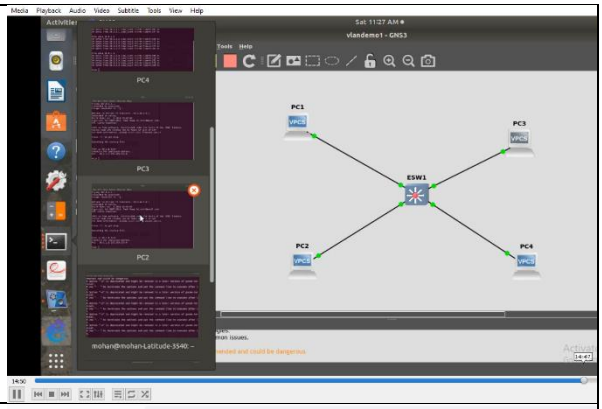
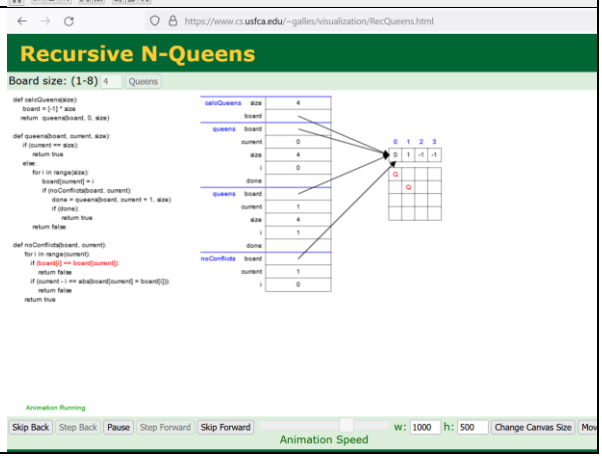
	tool name			
1.	Cisco Webex	Online class	Dr. Deepika K	
2.	Cisco Webex	Online Class	Dr. Savitha R	
3.	Cisco Webex	Online Class	Dr.B.H.Chandrashekar	
4.	Cisco Webex	Online Class	Dr. Andhe Dharani	

5.	Google Meet	Online Assignment Review	Dr. Preethi N Patil	

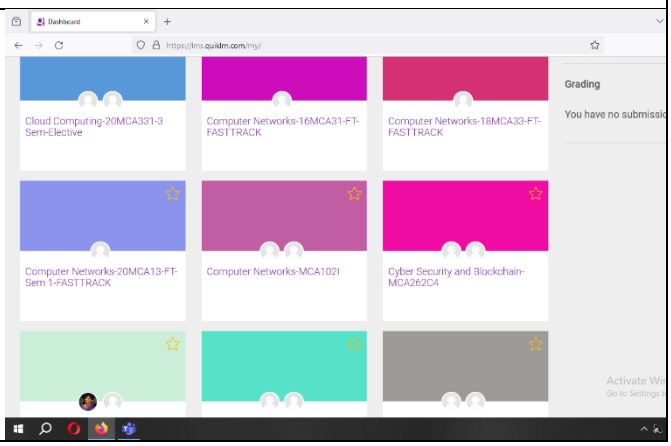
- ***Simulations and Virtual Labs:*** ICT tools offer simulated environments for students to conduct experiments or explore concepts that may be difficult or dangerous to replicate in a physical setting, enhancing experiential learning.

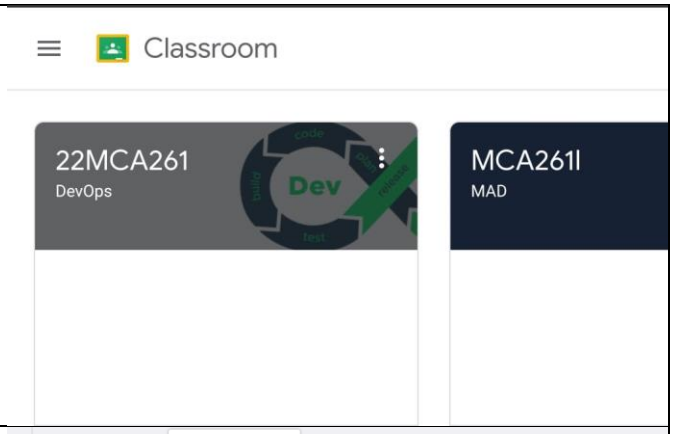
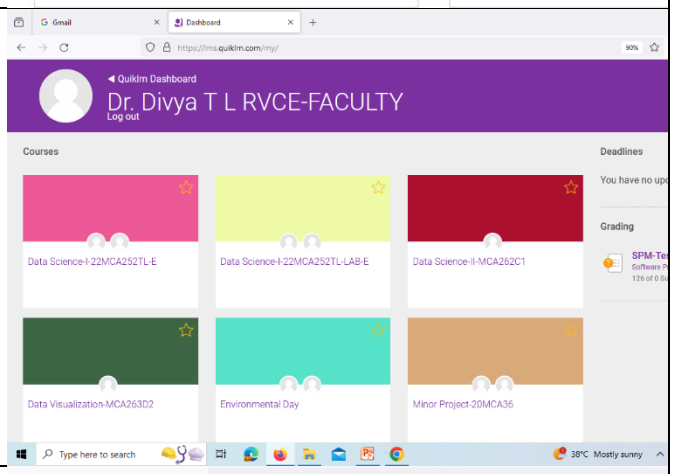
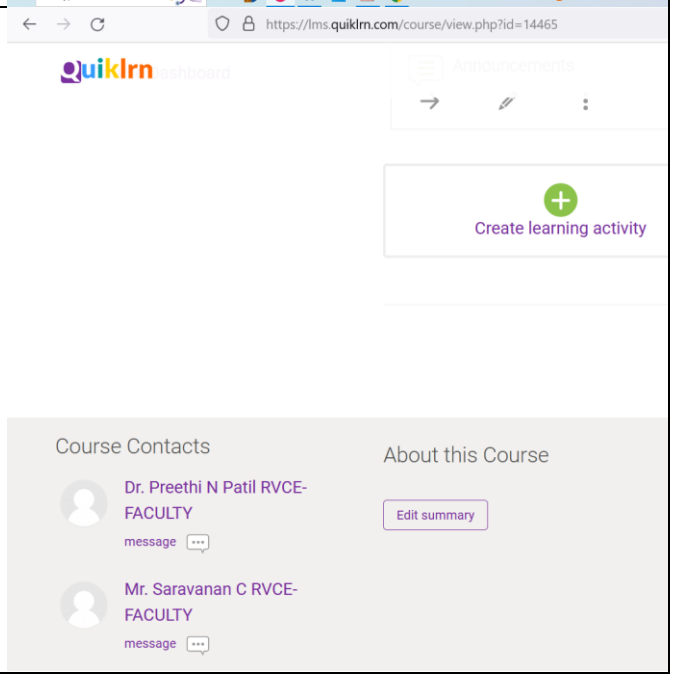
Sl. No	*Name of Simulations and Virtual Labs*	Name of the Course	Faculty Name	Photos of the Activity
1.	FIGMA – Collaborative Design tool used in UI/UX course	Principles of UI/UX	Dr. Jasmine K S	

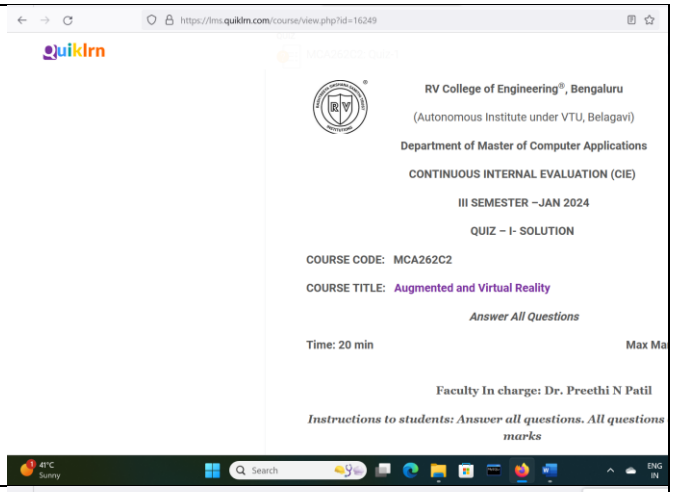
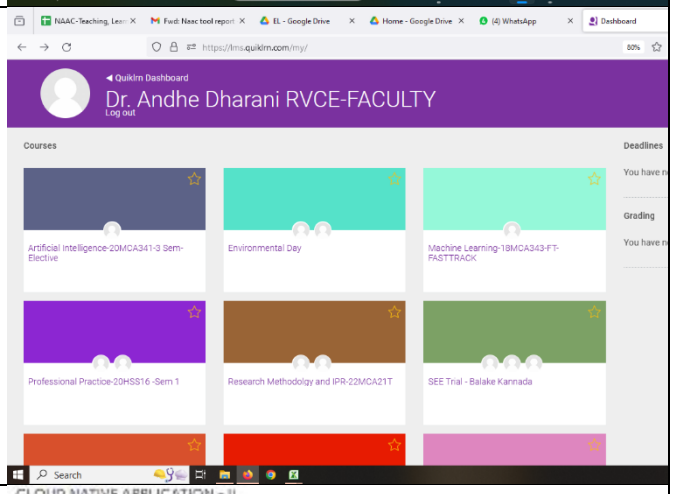
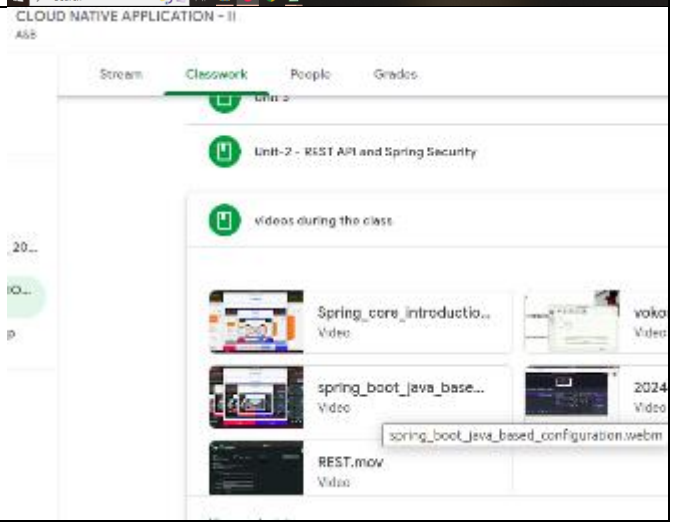
2.	PowerBI	Data Visualization	Dr. Divya T L	
3.	PowerBI	Data Visualization	Dr. Andhe Dharani	
4.	Tableau	Data Analysis	Prof. Chandrani C	
5.	Unity 3D	Augmented Reality	Dr. Preethi N Patil	

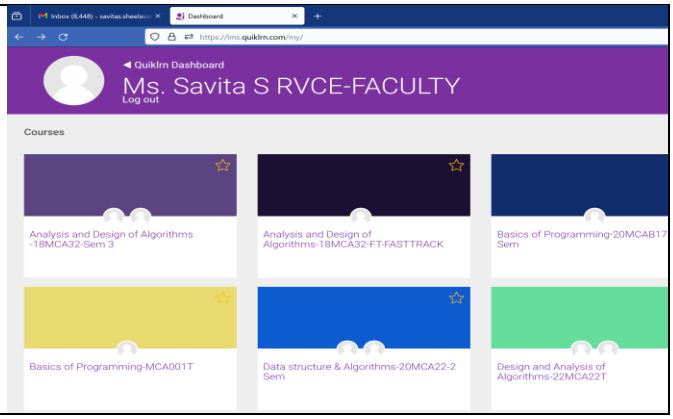
6.	GNS3	Computer Network	Dr. Mohanaradhya	
7.	USFCA Visualization	Data Structures	Dr. Savita S	

- ***Educational Apps and Software:*** There is a plethora of educational apps and software tailored to different subjects and age groups, providing interactive lessons, quizzes, and games to reinforce learning objectives.

Sl. No	*Name of Educational Apps and Software*	Name of the Course	Faculty Name	Photos of the Activity
1.	Quiklrn	Cybersecurity and Blockchain	Dr.Mohanaradhya	

2.	Google Classroom	DevOps	Dr. Deepika K	
3.	Google Classroom	Data Science-1	Dr. Divya TL	
4.	Quiklrn	Database Systems	Prof. Saravanan C	

5.	Quiklrn	AR/VR	Dr. Preethi N Patil	
6.	Quiklrn	Machine Learning	Dr. Andhe Dharani	
7.	Google classroom	Cloud native Full Stack Applications	Prof. Prashanth K	

8.	Quiklrn		Prof. Savita S	

2. Learning with ICT Tools:

ICT tools empower students to take ownership of their learning journey and access educational resources beyond the confines of the classroom. Some ways in which ICT tools facilitate learning include:

- ***Online Resources:*** The internet provides a vast repository of educational materials such as e-books, articles, videos, and tutorials, enabling students to supplement their learning and explore topics at their own pace.

Sl.No	*Type of online resource*	Name of the Course	Faculty Name	Online resource link
1	Materials - Notes, Videos	DevOps	Dr. Deepika K	https://classroom.google.com/c/NjE1Njc1MzI2Nzk3?cjc=4krewhf
2	Class Recordings	DevOps	Dr. Deepika K	Webex meeting recording: Add to Home Screen (A2HS) Password: Mad@2023 Recording link: https://rvce.webex.com/rvce/ldr.php?RCID=e334582018b09bbf959ce1a2a382a4ea
3	E-book	Cybersecurity and	Dr.Mohanaradhya	https://users.cs.fiu.edu/~prabakar/cen5079/Common/textbooks/Mastering_Blockchain_2nd_Edition.pdf

		Block chain		
4	Video Lectures	DBMS and WEB application Programming	Dr. Preethi N Patil	https://www.youtube.com/@easycslearning4425
5	Video Lectures	Python Programming	Dr. Jasmine K S	https://www.youtube.com/@jasmineks1040
6	Reference Manual	Unity 3D-Game Engine	Dr. Preethi N Patil	https://docs.unity3d.com/Manual/index.html
7	Online Docs	LSS	Dr. Renukaprasad B	https://docs.docker.com/get-started/overview/

- ***E-Learning Platforms:*** Platforms like Quiklrn, google Sites, Moodle, Blackboard, youtube or Canvas offer a centralized hub for course materials, assignments, discussions, and assessments, fostering a collaborative and structured learning environment.

Sl. No	*Type of E-Learning Platforms & Purpose*	Name of the Course	Faculty Name	*E-Learning Platform* link
1	Web Ex, Google Classroom	DevOps	Dr. Deepika K	https://classroom.google.com/c/NjE1Njc1MzI2Nzk3?cjc=4krewhf

2	Google classroom	Big Data Analytics,Data Scince	Dr. Divya TL	https://classroom.google.com/c/NjQ5OTYyODM3NDMx/a/NjUwMjUxNjM4MTkz/details
3	Google classroom	Cloud Native Full Stack Application Development - II	Prashanth K	https://classroom.google.com/c/NjQ5NzEzOTkwNjc4
4	Google classroom	Web Application Programming	Dr. Andhe Dharani	https://classroom.google.com/c/NjQ4MjQ2MjM5MDY0
5	Google classroom	Augmented and Virtual Reality	Dr. Preethi N Patil	https://classroom.google.com/u/1/c/NjM5MjI5MzQzODA5
6	Google Classroom	Machine Learning	Andhe Dharani	https://classroom.google.com/c/MTc0MTc4MjMzNzMy?cjc=qea75hs
7	Google classroom	Research Methodology	Usha J , Andhe Dharani	https://classroom.google.com/c/NjIzMDYyNjY1NTg2?cjc=fqwknut
8	Google Classrom	Artificial Intelligence	Andhe Dharni	https://classroom.google.com/c/NTc4MzU3MTkyNzI3?cjc=yrpie6r
9	Google classroom	Principles of UIUX Design BOP Design and		https://classroom.google.com/c/NjQ2NDc4MTgyMDU0?cjc=w2bbrrb https://classroom.google.com/c/NjYzOTEzMzU3ODI0?cjc=gwjter6

		Analysis of Algorithms Object oriented programming Data Structures and Algorithms		https://classroom.google.com/c/NjE1MjUyNzMyOTA4?cjc=3ydad67 https://classroom.google.com/c/NTE2NDk2OTEyNDI2?cjc=iyik3ic https://classroom.google.com/c/NDk2OTQ4ODI3Mzk0?cjc=535yytd

- ***Adaptive Learning Systems:*** ICT tools leverage adaptive learning algorithms to personalize the learning experience based on each student's strengths, weaknesses, and learning pace, ensuring tailored instruction and optimal comprehension.

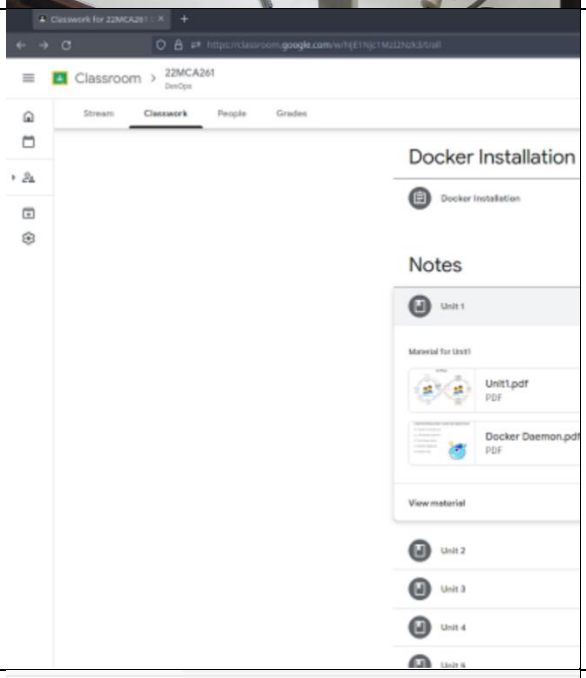
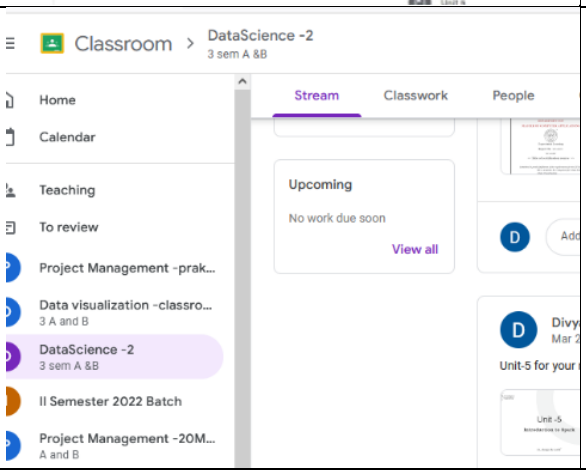
Sl.No	*Type of Adaptive Learning Systems*	Name of the Course	Faculty Name	*Outcome of ALS*
1	Xournal++	DevOps	Dr. Deepika K	Action Taken: Individual Consultation: Conducted a one-on-one meeting with the student to discuss their performance and understand any challenges they are facing in the course. Review of Course Material: Reviewed the course material with the student, focusing on

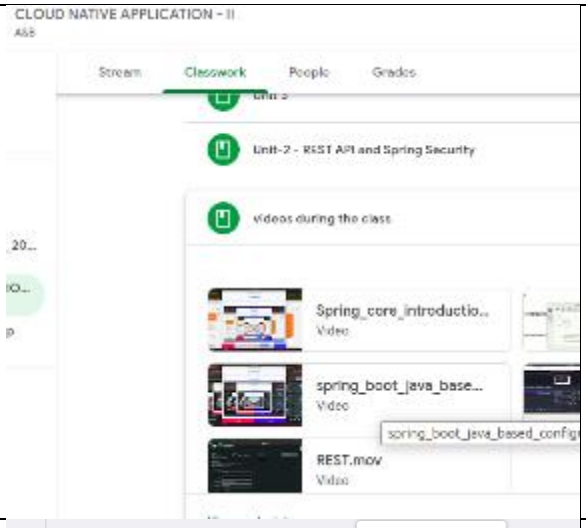
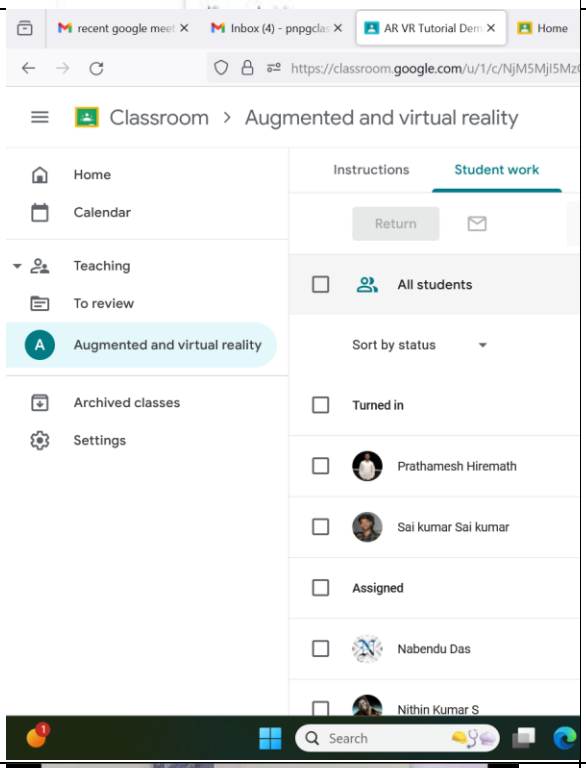
				areas where they struggled, and provided additional explanations and examples to enhance their understanding. Regular Feedback: Provided regular feedback on the student's progress and performance to track improvements and address any issues promptly. Encouragement and Motivation: Offered encouragement and motivation to boost the student's confidence and encourage them to put in their best effort in the course. Follow-Up: Scheduled a follow-up meeting with the student to review their progress and address any further concerns they may have.

				Outcome: The student has shown improvement in their understanding and performance in Modern Application Development. They are encouraged to continue their efforts and seek help whenever needed to excel in the course.

- ***Collaborative learning techniques/Tools***: Tools like Google Workspace, Microsoft Office 365, or collaborative whiteboard apps facilitate group projects, peer review, and collaborative problem-solving, promoting teamwork and communication skills.

Sl.No	*Name of Collaborative learning techniques/Tools*	Name of the Course	Faculty Name	Photos of the Activity	Semester/Year

1	*Webex*	IoT	Dr. Renukaprasad B		II semester
2	Google Classroom	DevOps	Dr. Deepika K		II Semester
3	Google Classroom	Data Science	Dr.Divya TL		III Semester

4	Google Classroom	Cloud Native Full Stack Application Development -II	Prashanth K		III Semester
5	Google ClassRoom	Augmented and Virtual Reality	Dr. Preethi N Patil		III Semester
6	Collaborative Learning	Augmented and Virtual Reality	Dr. Preethi N Patil		

3. Evaluation with ICT Tools:

ICT tools offer innovative solutions for assessing student progress and providing timely feedback. Some methods of evaluation using ICT tools include:

- ***Online Assessments:*** Platforms like Quiklrn, Kahoot, Quizizz, or Google Forms enable teachers to create and administer quizzes, tests, and surveys electronically, automating grading and providing instant feedback to students.

Sl.No	*Name of Online Assessment tool*	Name of the Course	Faculty Name	Type of the event assessment	Semester/Year
1	Google Classroom	DevOps	Dr. Deepika K	Assignment	II Semester
2	Google Classroom	Data Science -1	Dr.Divya TL	Assignment	II Semester
3	Quiklrn	Cybersecurity and Blockchain	Dr.Mohanaradhya	Quiz	III Semester
4.	Quiklrn	LSS	Dr. Renuka Prasad and Dr. B H Chandrashekar	Quiz	I Semester
5.	Quiklrn	AR/VR	Dr. Preethi N Patil	Quiz	III Semester
6.	Quiklrn	OOP	Dr. Jasmine K S	Quiz	I Semester
7.	Quklrn	DBMS	Prof. Saravanan C	Quiz	II Semester
8.	Quiklrn	AI	Dr. Andhe Dharani	Quiz	III Semester
9.	Quiklrn	DSA	Dr. Jaysimha S R and Prof. Savita R	Quiz	II Semester
10.	Quiklrn	WAP	Dr. Savitha R	Quiz	I Semester
11.	Quiklrn	Cloud Native Full Stack Application	Prof. Prashanth K and Dr. Vishal C	Quiz	III Semester
12.	Google Classroom	Web Application Programming	Dr. Andhe Dharani and Dr. Preethi N Patil	EL Assessment	I Semester

13.	Google Classroom	AR/VR	Dr. Preethi N Patil and Prof. Chandrani C	EL Assessment	III Semester

- ***E-Portfolios:*** Digital portfolios allow students to showcase their work, reflections, and achievements over time, providing a holistic view of their learning journey and enabling self-assessment and peer feedback.

Sl.No	*Name of* E-Portfolios	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year
1.	DevOps - Assignment	DevOps	Dr. Deepika K	Assignment	II Semester
2.	Data Science	Data Science 1	Dr. Divya TL	Assignment	II Semester
3.	Git and Github	Web Application Programming-	Dr. Preethi N Patil	Assignment	I Semester
4.	Google Classroom	Web Application Programming	Dr. Andhe Dharani	Assignment	I Semester
5.	Google Classroom	Principles of UI/UX	Prof. Savita S	Assignment	I Semester
6.	Google classroom	Cloud Native Full Stack	Prof. Prashanth K and Vishal C	Assignment	III Semester
7.	Google Classroom	AR/VR	Dr. Preethi N Patil	Assignment	III Semester
8.	Google Classroom	Computer Networks	Dr. Mohanaradhya and Prof. Chandrani C	Assignment	I Semester
9.	Google Classroom	OOP	Dr. Jasmine K S and Prof Saravanan C	Assignment	I Semester

- ***Learning Analytics:*** ICT tools collect and analyze data on student performance and engagement, allowing educators to identify trends, assess the effectiveness of instructional strategies, and tailor interventions to meet individual learning needs.

Sl.No	*Name of Learning Analytics*	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year
1	Quiklrn	DevOps	Dr. Deepika K	Quiz	II Semester
2	Moodle	Modern Application Development	Dr. Deepika K	Quiz	III Semester
3	Quiklrn	Object Oriented Programming	Prof.Saravanan C	Quiz	I Semester
4	Quiklrn	Computer Networks	Dr.Mohanaradhya	Quiz	I semester
5	Quiklrn	WAP	Dr. Andhe Dharani	Quiz	I Semester
6	Quiklrn	AI	Dr. Andhe Dharani	Quiz	III Semester
7	Quiklrn	AR/VR	Dr. Preethi N Patil	Quiz	III Semester

- ***Plagiarism Detection:*** With the proliferation of online resources, plagiarism has become a concern in academic settings. Plagiarism detection software like Turnitin or Grammarly can help educators identify and address instances of academic dishonesty.

Sl.No	*Name of Plagiarism Detection tool*	Name of the Course	Faculty Name	Name of the activity
1	DrillBit Plagiarism Detection Software [May-2023 to till date]	Minor / Major Projects report and thesis	Department of MCA	Thesis plagiarism check
2	DrillBit Plagiarism Detection Software [May-2023 to till date]	Research and Technical Paper	Department of MCA	plagiarism check for papers to be published
3	Turnitin [2010 to April 2023]	Minor / Major Projects report and thesis	Department of MCA	Thesis plagiarism check
4	Turnitin [2010 to April 2023]	Research and Technical Paper	Department of MCA	plagiarism check for papers to be published

Feedback and Communication Tools: ICT tools facilitate timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts, and ongoing dialogue to support learning and growth.

Sl.No	*Name of* Feedback and Communication Tools	Name of the Course	Faculty Name	Name of the activity
1	Quiklrn	all the courses of program	department of MCA	faculty appraisal for the courses handled in every semester
2	Google form	all the course of the program	Department of MCA	Students Course End Survey and Exit Survey

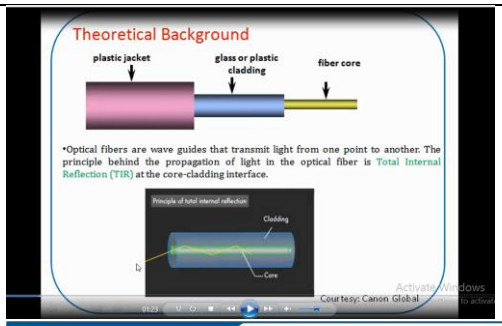
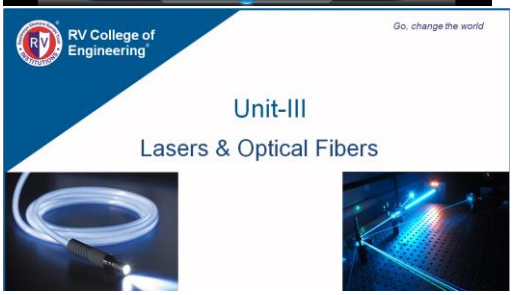
Department of PHYSICS

In the dynamic realm of modern education, the integration of Information and Communication Technology (ICT) has emerged as a transformative force, reshaping the landscape of teaching, learning, and assessment, particularly within the domain of Physics. The significance of harnessing ICT tools to augment pedagogical practices and empower learners. This report endeavors to delve into the multifaceted applications of ICT within the realm of Physics education, elucidating its pivotal role in fostering enriched learning experiences, promoting conceptual understanding, and facilitating innovative modes of assessment.

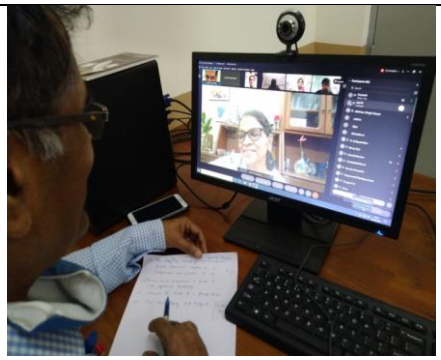
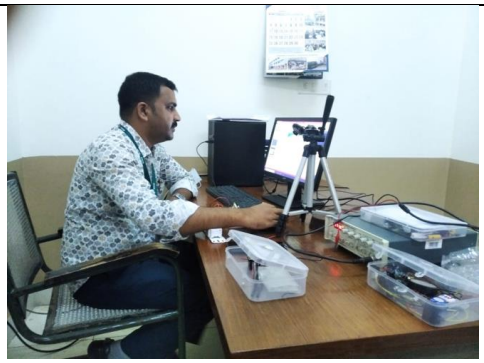
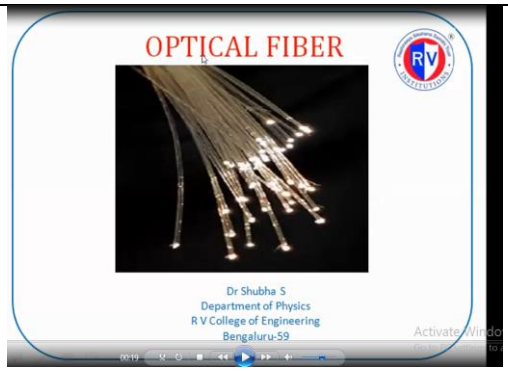
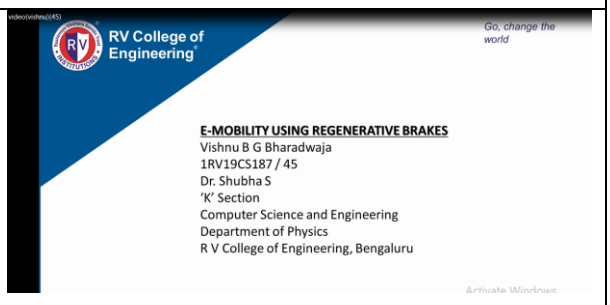
1. Teaching with ICT Tools:

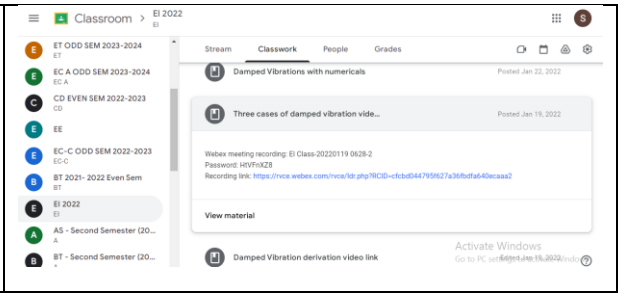
The educational landscape is rich with a diverse array of ICT tools, each offering educators boundless opportunities to cultivate engaging and effective learning environments. Among the multitude of options available, familiar tools such as Google Classroom, Quiklrn, Wordpress, Google Forms, PowerPoint, Webex, Google Meet, YouTube, Zoom, Tracker Video Analyzer, Scilab, Expeyes, Gnuplot, PhET Simulations, and Desmos stand out as versatile resources. These tools empower educators to enhance interactivity, foster deeper understanding, and facilitate dynamic instructional experiences tailored to the needs and preferences of students. Embracing the potential of ICT tools in teaching opens avenues for creativity, innovation, and inclusivity, ultimately enriching the educational journey for learners across diverse contexts.

Faculty used the different platforms to deliver Physics content using Microsoft PowerPoint and Google Slides. Online presentations were done using digital writing pads such as iscribe, wecom etc.,

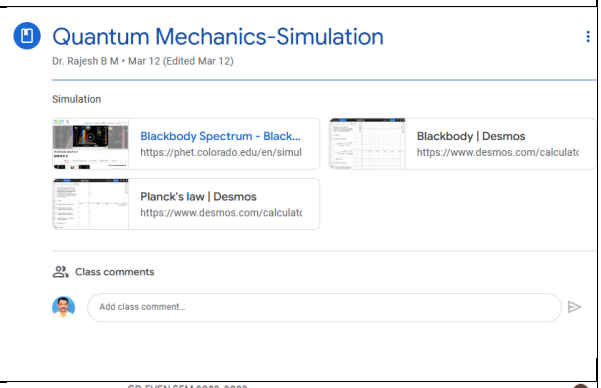
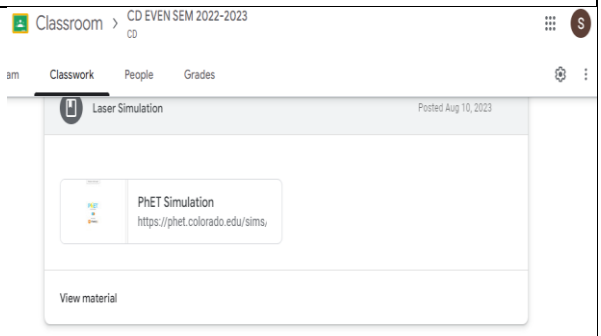
Sl.No	Name of the Faculty	*Presentation Software used*	Sample Screenshot of any one course
01	Dr. Sudha Kamath M. K Dr. Bhuvaneswara Babu T Dr. Avadhani D. N Dr. G Shireesha Dr. Shubha S Dr. Tribikram Gupta Dr. Rajesh B.M Dr. Ramya P Dr. Karthik Shastry Dr. Dileep MS Dr. Niranjana KM	Microsoft Powerpoint	 

- ICT Tools such as Zoom, Webex and Google Meet were used for remote or hybrid learning enabling live virtual classes, guest lectures, and collaborative projects.

Sl.No	Video Conference tool name	Purpose of the usage	Faculty Name	Photos of the event
01	Webex	FDP	Dr. Bhuvaneswara Babu T	
02	Webex	Guest lectures	Dr. Rajesh BM	
03	Zoom	Online class	Dr Shubha S	
04	Google meet	Assignment - Presentation	Dr Shubha S	

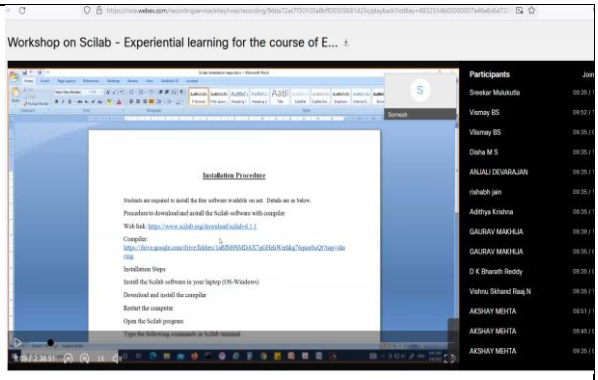
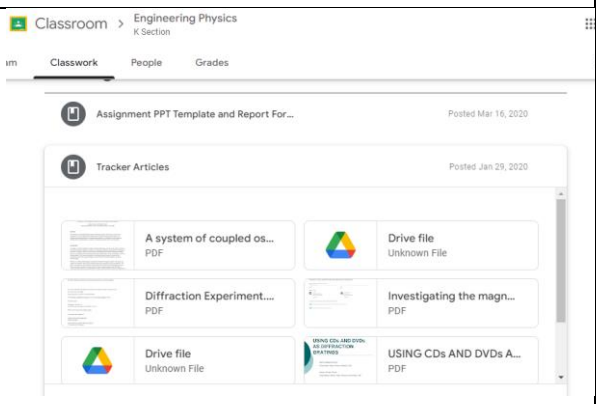
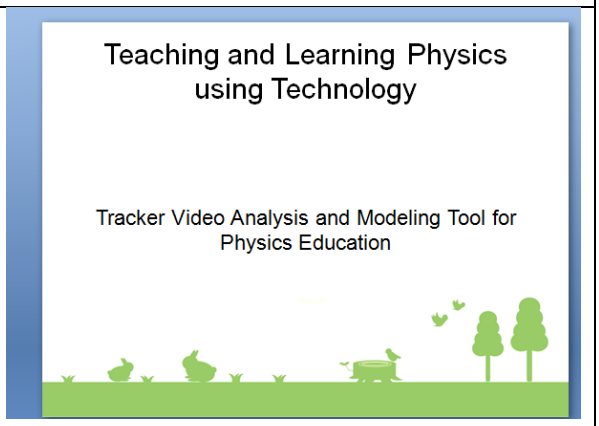
05	Cisco Webex	Online Class	Dr Shubha S	

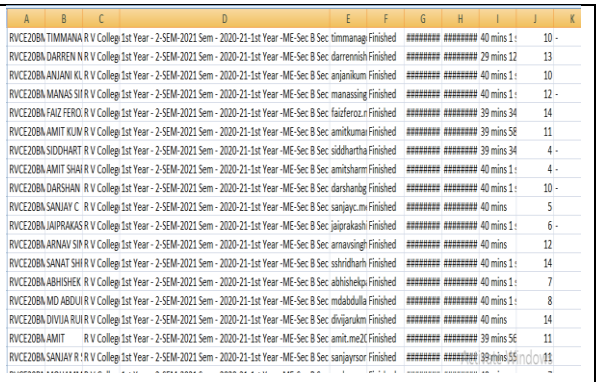
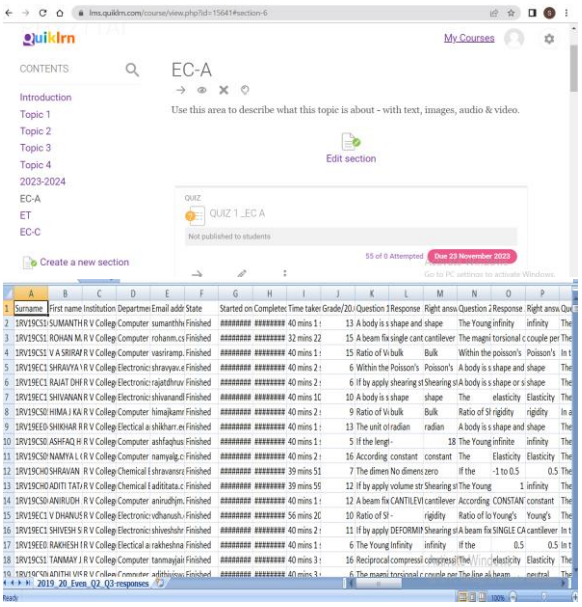
Interactive Simulations such as PhET, Desmos, Physlets, Scilab-Xcos, Tracker video analyser and Virtual Labs such as Vlab ICT tools offer simulated environments for students to conduct experiments or explore concepts that may be difficult to replicate in a physical setting and to enhance experiential learning.

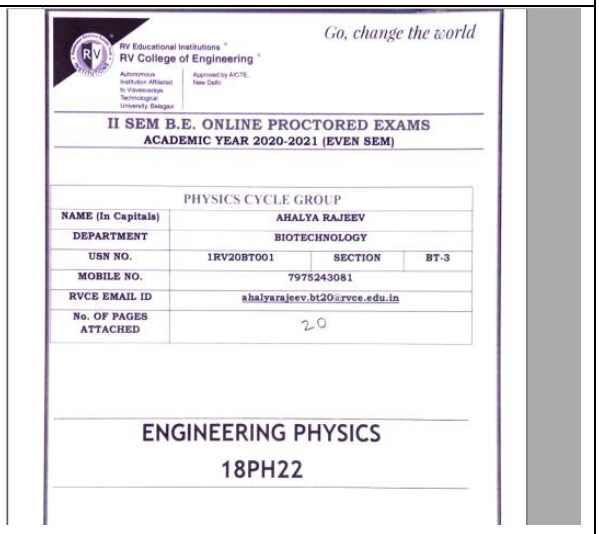
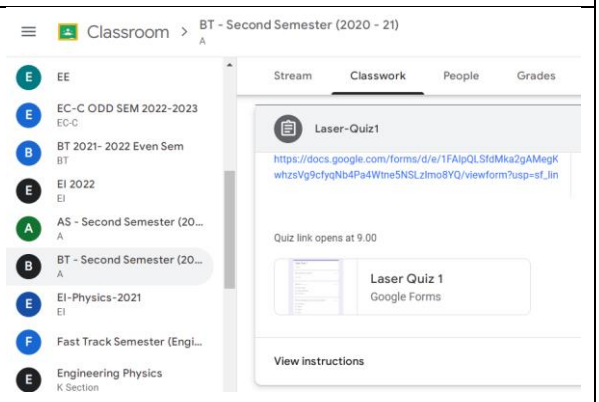
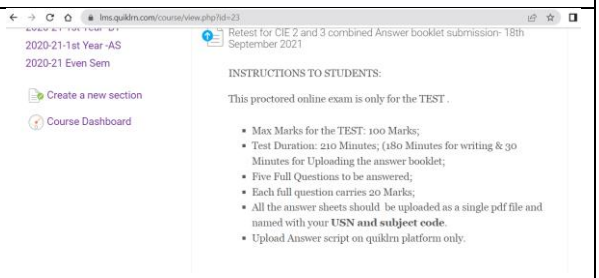
Sl.No	*Name of Simulations and Virtual Labs*	Name of the Course	Faculty Name	Photos of the Activity
01	PhET, Desmos	Quantum Physics for Engineers	Dr. Rajesh BM	
02	PhET	Quantum Physics for Engineers	Dr Shubha S	

Educational Apps and Software such as Expeyes, Scilab, Tracker, Quiklrn, Google forms are used for interactive lessons, quizzes, and games to reinforce Physics concepts such as particle in a box, wave packet in Quantum mechanics etc.,

Sl.No	*Name of Educational Apps and Software*	Name of the Course	Faculty Name	Photos of the Activity

01	Scilab	Physics Lab	Dr. Rajesh BM Dr. Avadhani DN Dr. Niranjana KM	
02	Tracker	Physics Course- Google Classroom	Dr Shubha S	
03	Tracker	Physics Course-Assignment/ Experiential Learning	Dr Shubha S	 

03	Quiklrn	Online Quiz	Dr. Sudha Kamath M. K Dr. Bhuvaneswara Babu T Dr. Avadhani D. N Dr. G Shireesha Dr. Shubha S Dr. Tribikram Gupta Dr. Rajesh B.M Dr. Ramya P Dr. Karthik Shastry Dr. Dileep MS Dr. Niranj	 

			ana KM	
04	Exam.net, Quiklrn	Online Proctored exam	Dr Shubha S	
05	Google Forms	Online Quiz	Dr Shubha S	
06	Quiklrn	Online Exam	Dr Shubha S	

2. Learning with ICT Tools:

ICT tools such as ebooks, research articles, videos, science websites facilitate student learning at their own pace. Online resources used are given below.

Sl.No	*Type of online resource*	Name of the Course	Faculty Name	Online resource link

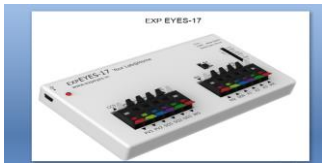
1	WordPress web page	Physics	Dr Rajesh B M Dr Shubha S	https://physicsrvce.wordpress.com/video-lectures/
2	Youtube	Physics	Dr Rajesh B M	https://www.youtube.com/watch?v=sfvlGX_BHQg
3	Youtube	Physics	Dr Shubha S	https://www.youtube.com/watch?v=-90YMw-KYVM&t=1s
4	Youtube	Physics	Dr Ramya P	https://www.youtube.com/watch?v=vSvhYfHEyec&t=4s
5	Youtube	Physics	Dr. Tribikram Gupta	https://youtu.be/EdmfFKDaJmU
6	Youtube	Physics	Dr. Dileep MS	https://youtu.be/TMcr1lli3WU
7	Youtube	Physics	Dr. Niranjana KM	https://youtu.be/xMR4VVQpCDs
8	Youtube	Physics	Dr. G. Shireesha	https://youtu.be/HKRgD7L1rVo

E-Learning platforms like Quiklrn, Wordpress, youtube were used as a LMS centralized hub for course materials, assignments, discussions, and assessments, fostering a collaborative and structured learning environment.

Sl. No	*Type of E-Learning Platfor*	Name of the Course	Faculty Name	*E-Learning Platform* link

	ms & Purpose			
1	Google Classroom	Physics	Dr Shubha S	https://classroom.google.com/w/NjMxNjgzNzU3OTQz/t/all
2	Google Classroom	Physics	Dr Rajesh B M	https://classroom.google.com/w/NjY4Njk2OTMzOTgz/t/all
3	Google Classroom	Physics	Dr Ramya P	https://classroom.google.com/h

Expeyes used as adaptive learning systems to personalize the learning experience based on each student's strengths, weaknesses, and learning pace, ensuring tailored instruction and optimal comprehension.

Sl.No	*Type of Adaptive Learning Systems*	Name of the Course	Faculty Name	*Outcome of ALS*
1	 expEyes - Open source hardware and software	Physics Lab	Dr Rajesh B M Dr Shubha S	Included experiments to the curriculum

3. Evaluation with ICT Tools:

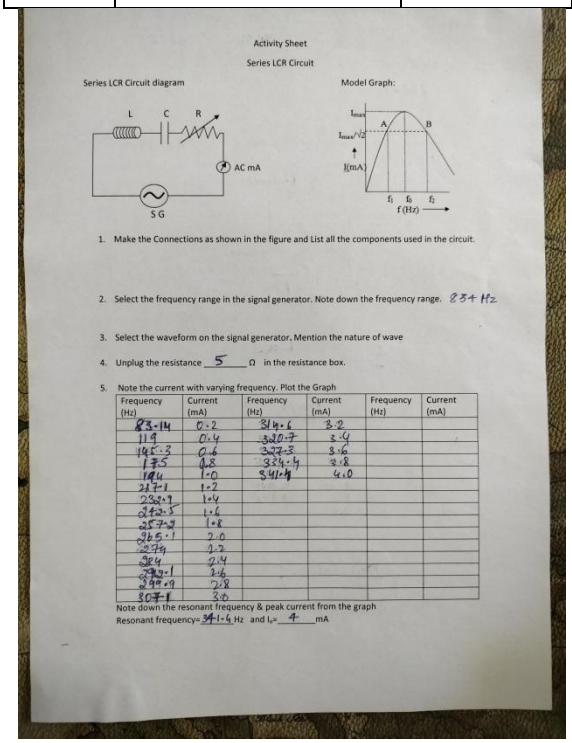
Quiklrn and Exam.net platforms were used for online assessments. These plotforms enable teachers to create and administer quizzes, tests, and surveys electronically, automating grading and providing instant feedback to students.

Sl.No	*Name of Online Assessment tool*	Name of the Course	Faculty Name	Type of the event assessment	Semester/Year
1	Quiklrn	Physics	Dr Rajesh B M	Quiz and Test	2018-19 2019-20 2020-21 2021-22 2022-23
2	Quiklrn	Physics	Dr Shubha S	Quiz	2018-19 2019-20 2020-21 2021-22 2022-23
3	Quiklrn	Physics	Dr Ramya P	Quiz	2018-19 2019-20 2020-21 2021-22 2022-23
4	Quiklrn	Physics	Dr. G Shireesha	Quiz	2018-19 2019-20 2020-21 2021-22 2022-23

- ***Learning Analytics:*** ICT tools collect and analyze data on student performance and engagement, allowing educators to identify trends, assess the effectiveness of instructional strategies, and tailor interventions to meet individual learning needs.

Sl.No	*Name of Learning Analytics*	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year

1	Learning by doing using open source tool	Physics	Dr Shubha S Dr Rajesh B M	Questionnaire	2021-22



Activity Sheet

Series LCR Circuit

Series LCR Circuit diagram

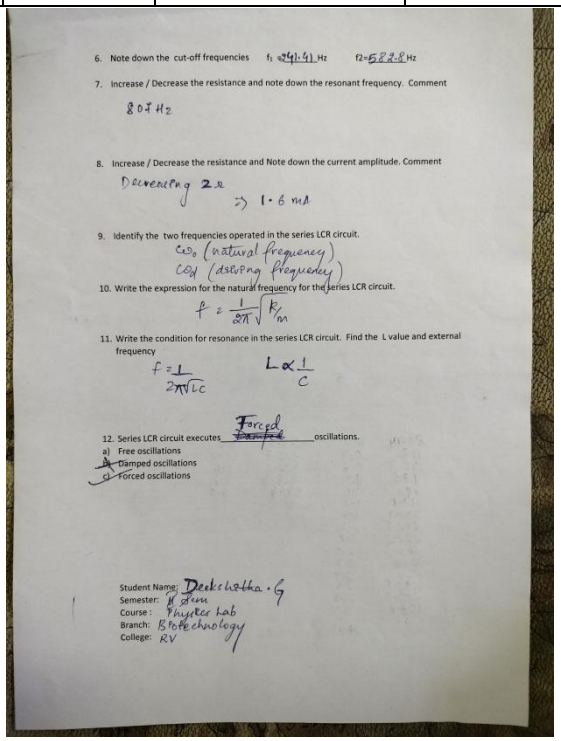
Model Graph:

1. Make the Connections as shown in the figure and List all the components used in the circuit.
2. Select the frequency range in the signal generator. Note down the frequency range. 834 Hz
3. Select the waveform on the signal generator. Mention the nature of wave
4. Unplug the resistance 5 Ω in the resistance box.
5. Note the current with varying frequency. Plot the Graph

Frequency (Hz)	Current (mA)	Frequency (Hz)	Current (mA)	Frequency (Hz)	Current (mA)
83-14	0·2	314·6	3·2		
119	0·4	320·7	3·4		
145·3	0·6	327·3	3·6		
175	0·8	334·4	3·8		
194	1·0	341·4	4·0		
217·1	1·2				
238·9	1·4				
247·3	1·6				
257·3	1·8				
265·1	2·0				
279	2·2				
284	2·4				
293·1	2·6				
298·9	2·8				
307·1	3·0				

Note down the resonant frequency & peak current from the graph

Resonant frequency= 341·4 Hz and I_0= 4 mA



6. Note down the cut-off frequencies f_1 291·41 Hz f_2=582·8 Hz
7. Increase / Decrease the resistance and note down the resonant frequency. Comment

807 Hz

8. Increase / Decrease the resistance and Note down the current amplitude. Comment

Decreasing 2Ω ⇒ 1·6 mA

9. Identify the two frequencies operated in the series LCR circuit.

ω_0 (natural frequency)
ω_d (driving frequency)

10. Write the expression for the natural frequency for the series LCR circuit.

$f = \frac{1}{2\pi}\sqrt{\frac{k}{m}}$

11. Write the condition for resonance in the series LCR circuit. Find the L value and external frequency

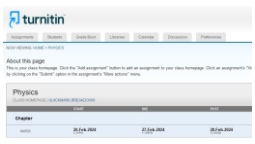
$f = \frac{1}{2\pi\sqrt{LC}}$ $L \propto \frac{1}{C}$

12. Series LCR circuit executes Forced oscillations.

a) Free oscillations
b) Damped oscillations
c) forced oscillations

Student Name: Deekshatha. G
Semester: II Sem
Course: Physics Lab
Branch: Biotechnology
College: RV

Plagiarism Detection: With the proliferation of online resources, plagiarism has become a concern in academic settings. Plagiarism detection software like Turnitin used by the faculty to identify and address instances of academic dishonesty.

Sl.No	*Name of Plagiarism Detection tool*	Name of the Course	Faculty Name	Name of the activity
01	Turnitin	Physics	Dr. Sudha Kamath M K Dr. Rajesh BM Dr. Tribikram Gupta. Dr.G Shireesha	Publications 

Feedback and Communication Tools: ICT tools facilitate timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts, and ongoing dialogue to support learning and growth.

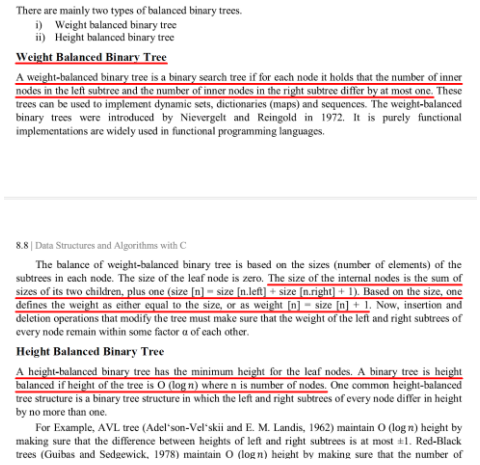
Sl.No	*Name of* Feedback and Communication Tools	Name of the Course	Faculty Name	Name of the activity
01	Quiklrn	Physics	Dr Shubha S	Quiz

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

1. Teaching with ICT Tools:

ICT tools offer educators a plethora of opportunities to engage students and make learning more interactive and effective. Some common ICT tools used for teaching include:

· ***Presentation Software:*** Platforms like Microsoft PowerPoint, Google Slides, or Prezi enable teachers to create visually appealing presentations to deliver content in an organized and engaging manner.

Sl.No	Name of the Faculty	*Presentation Software used*	Sample Screenshot of any one course
1	Dr B Sathish Babu	Pdf Annotator/Adobe Annotator	

There are mainly two types of balanced binary trees.

i) Weight balanced binary tree
ii) Height balanced binary tree

Weight Balanced Binary Tree

A weight-balanced binary tree is a binary search tree if for each node it holds that the number of inner nodes in the left subtree and the number of inner nodes in the right subtree differ by at most one. These trees can be used to implement dynamic sets, dictionaries (maps) and sequences. The weight-balanced binary trees were introduced by Nievergelt and Reingold in 1972. It is purely functional implementations are widely used in functional programming languages.

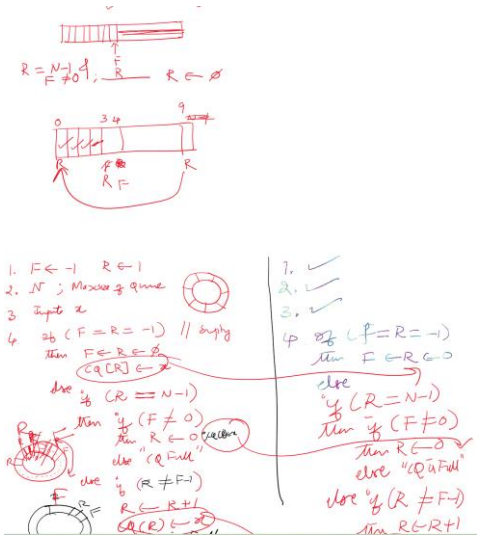
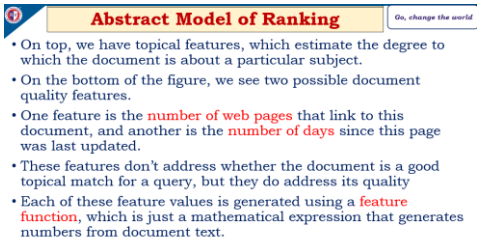
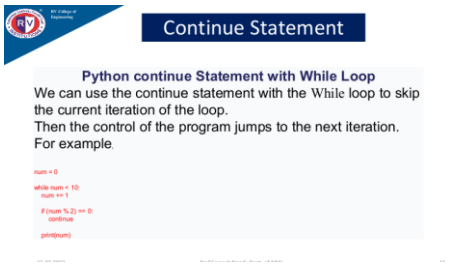
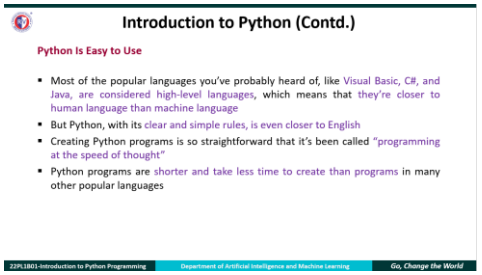
8.8 | Data Structures and Algorithms with C

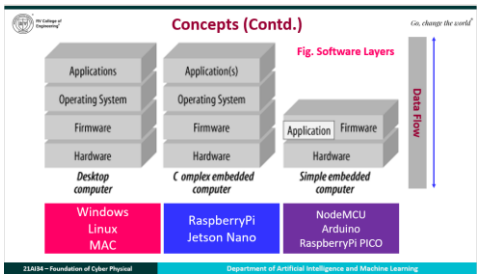
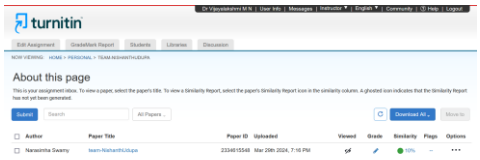
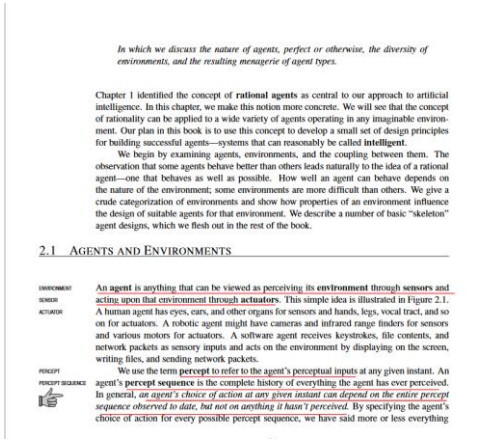
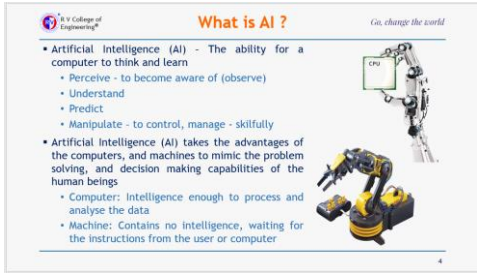
The balance of weight-balanced binary tree is based on the sizes (number of elements) of the subtrees in each node. The size of the leaf node is zero. The size of the internal nodes is the sum of sizes of its two children, plus one (size [n] = size [n.left] + size [n.right] + 1). Based on the size, one defines the weight as either equal to the size, or as weight [n] = size [n] + 1. Now, insertion and deletion operations that modify the tree must make sure that the weight of the left and right subtrees of every node remain within some factor α of each other.

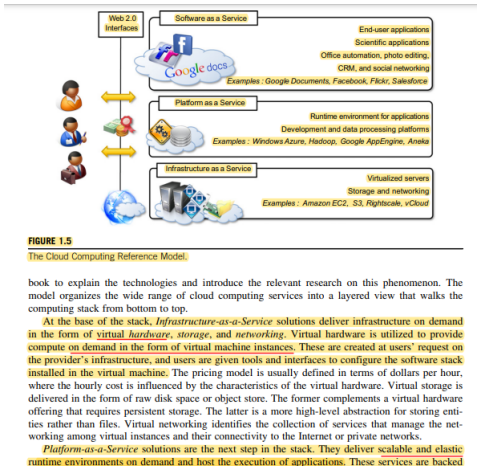
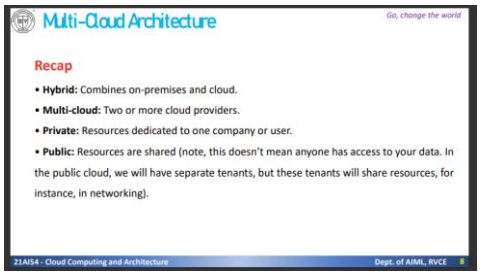
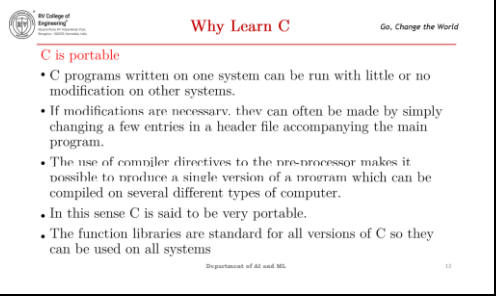
Height Balanced Binary Tree

A height-balanced binary tree has the minimum height for the leaf nodes. A binary tree is height balanced if height of the tree is O (log n) where n is number of nodes. One common height-balanced tree structure is a binary tree structure in which the left and right subtrees of every node differ in height by no more than one.

For Example, AVL tree (Adel'son-Vel'skii and E. M. Landis, 1962) maintain O (log n) height by making sure that the difference between heights of left and right subtrees is at most ±1. Red-Black trees (Guibas and Sedgewick, 1978) maintain O (log n) height by making sure that the number of

2	Dr B Sathish Babu	Microsoft OneNote	
2	Dr.Vijayalakshmi M N	Microsoft Power Point	
3	Prof. Somesh Nandi	MicrosoftPower Point	
4	Prof. Priya T V	MicrosoftPower Point	

5	Prof. Narasimha Swamy S	Microsoft Power Point and Turnitin	 
6	Dr. K. Viswavardhan Reddy K	PDF annotator	
		Microsoft Power Point	

7	Prof. Rajesh R M	PDF Annotator	 FIGURE 1.5 The Cloud Computing Reference Model. book to explain the technologies and introduce the relevant research on this phenomenon. The model organizes the wide range of cloud computing services into a layered view that walks the computing stack from bottom to top. At the base of the stack, *Infrastructure-as-a-Service* solutions deliver infrastructure on demand in the form of virtual *hardware*, *storage*, and *networking*. Virtual hardware is utilized to provide compute on demand in the form of virtual machine instances. These are created at users' request on the provider's infrastructure, and users are given tools and interfaces to configure the software stack installed in the virtual machine. The pricing model is usually defined in terms of dollars per hour, where the hourly cost is influenced by the characteristics of the virtual hardware. Virtual storage is delivered in the form of raw disk space or object store. The former complements a virtual hardware offering that requires persistent storage. The latter is a more high-level abstraction for storing entities rather than files. Virtual networking identifies the collection of services that manage the networking among virtual instances and their connectivity to the Internet or private networks. *Platform-as-a-Service* solutions are the next step in the stack. They deliver scalable and elastic runtime environments on demand and host the execution of applications. These services are backed
		Microsoft Power Point	
8	Dr S Anupama Kumar	Microsoft Power Point	

· ***Interactive Whiteboards:*** Interactive whiteboards facilitate dynamic teaching by allowing educators to display multimedia content, annotate, and interact with digital materials in real-time, fostering active participation among students.

Sl.No	No of Interactive Boards in the Department	Specifications of the whiteboard	Image of the whiteboard (smart board)	List the applications, faculties have explored (Like for annotation, real

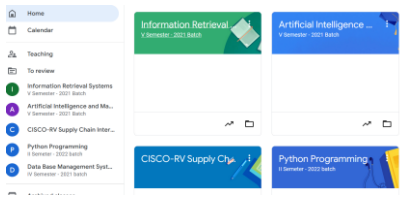
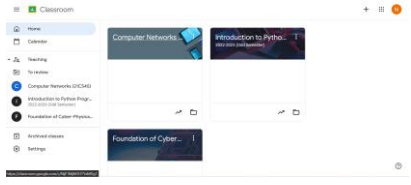
				time interaction etc..)
1	6	Maxhub Smart Interactive Display 4K with Android 11 4GB RAM, 32 GB ROM, i5 11th Gen Processor 8 GB RAM, 128 GB SSD(1 No)		Note 5

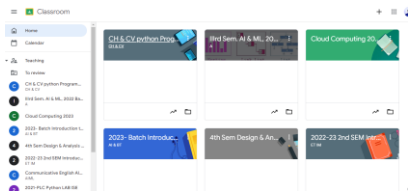
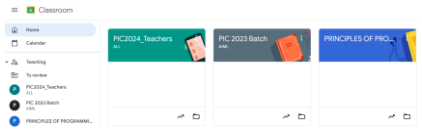
Video Conferencing: Tools such as Zoom, Microsoft Teams, or Google Meet have become indispensable for remote or hybrid learning scenarios, enabling live virtual classes, guest lectures, and collaborative projects.

Sl.No	Video Conference tool name	Purpose of the usage	Faculty Name	Photos of the event
1	Cisco Webex	Online Lectures	Dr Somesh Nandi	
2	Cisco Webex	Online Lectures	Dr.Vijayalakshmi.MN	
3	Google Meet	Online lectures	Priya T V	
4	Google Meet	Online Lectures	Rajesh R M	

5	Cisco Webex	Online Lectures	S Anupama Kumar	

· ***Educational Apps and Software:*** There is a plethora of educational apps and software tailored to different subjects and age groups, providing interactive lessons, quizzes, and games to reinforce learning objectives.

Sl.No	*Name of Educational Apps and Software*	Name of the Course	Faculty Name	Photos of the Activity
1	Quiklrn	ALL		
2	Google Classroom	ALL	Dr.Vijayalakshmi.MN	
3	STEP	Communicative English-1 & Communicative English-2		
4	Google Classroom	ALL	Prof. Narasimha Swamy s	

5	Google Classroom	ALL	Prof. Rajesh R M	
			Dr S Anupama Kumar	

2. Learning with ICT Tools:

ICT tools empower students to take ownership of their learning journey and access educational resources beyond the confines of the classroom. Some ways in which ICT tools facilitate learning include:

- ***Online Resources:*** The internet provides a vast repository of educational materials such as e-books, articles, videos, and tutorials, enabling students to supplement their learning and explore topics at their own pace.

Sl.No	*Type of online resource*	Name of the Course	Faculty Name	Online resource link
1	Online Visualization of the working of data structures, traversals and algorithms	Fundamentals of data structures and data analysis	Dr, B Sathish Babu	Sample Visualization links https://iswsa.acm.org/mphf/openDSAPerfectHashAnimation/perfectHashAV.html https://www.cs.usfca.edu/~galles/visua

				lization/Dijkstra.html https://www.cs.usfca.edu/~galles/visualization/BFS.html
2	Transfer learning—Hugging face models	Natural Lanaguage processing	Priya T V	https://huggingface.co/models
3	Search Engines	Information Retrieval Systems	Dr.Vijayalakshmi.M.N	https://iimskills.com/importance-of-search-engines/ https://iide.co/blog/importance-of-search-engines/
4	Bayes Theorem	Artificial Intelligence and Machine Learning	Dr.Vijayalakshmi.M.N	https://levelup.gitconnected.com/bayes-theorem-a-powerful-tool-for-data-science-machine-learning-and-data-analysis-4048763585dd

5	Gradient Boosting and Clustering	Artificial Intelligence and Machine Learning	Dr.Vijayalakshmi.M.N	https://medium.com/@ilyurek/light-gbm-a-powerful-gradient-boosting-algorithm-fe145a1cd8a6 https://medium.com/@hazallgultekin/what-is-silhouette-score-f428fb39bf9a
6	Public cloud infrastructure	Cloud Computing technology and Architectures	Prof. Rajesh R M	https://aws.amazon.com/free/?gclid=Cj0KCQjwir2xBhC_ARIsAMTXk86zimKUWGaqMjREs4_hwNazbd3T-vhvxRAv3r5qGkqRNNNnFuDxIR0aAlDXEALw_wcB&trk=14a4002d-4936-4343-8211-b5a150ca592b&sc_channel=ps&ef_id=Cj0KCQjwir2xBhC_ARIsAMTXk86zimKUWGaqMjREs4_hwNazbd3T-vhvxRAv3r5qGkqRNNNnF

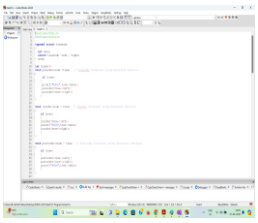
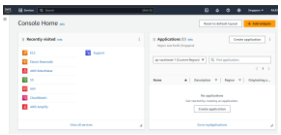
				uDxIR0aAlDXEALw_wcB:G:s&s_kwcid=AL!4422!3!453325184794!e!!g!!amazon%20aws!10712784856!111477279811&all-free-tier.sort-by=item.additionalFields.SortRank&all-free-tier.sort-order=asc&awsf.Free%20Tier%20Types=*all&awsf.Free%20Tier%20Categories=*all

· ***E-Learning Platforms:*** Platforms like Quiklrn, google Sites, Moodle, Blackboard, youtube or Canvas offer a centralized hub for course materials, assignments, discussions, and assessments, fostering a collaborative and structured learning environment.

Sl.No	*Type of E-Learning Platforms & Purpose*	Name of the Course	Faculty Name	*E-Learning Platform* link
1	For assignments and instructions, and material distribution	Fundamentals of data structures and data analysis	Dr B Sathish Babu	classroom.google.com
2	For sharing of material and providing instructions	Information Retrieval and Artificial Intelligence	Dr.Vijayalaksmi.M.N	Google Class Room

		and Machine Learning		
3	For sharing of material and providing instructions	Operating System, Programming in C, Introduction to Python Programming	Prof Somesh Nandi	Google Class Room
4	For sharing of material and providing instructions	Introduction to Python Programming Cloud Computing Technology and Architectures	Prof. Rajesh R M	Google Classroom
5	For sharing resources, conducting surveys and providing assignments	Fundamentals of programming using C, Programming in C	S Anupama Kumar	Google Class roo,

· ***Collaborative learning techniques/Tools***: Tools like Google Workspace, Microsoft Office 365, or collaborative whiteboard apps facilitate group projects, peer review, and collaborative problem-solving, promoting teamwork and communication skills.

Sl.No	*Name of Collaborative learning techniques/ Tools*	Name of the Course	Faculty Name	Photos of the Activity	Semester/Year
1	Code:Blocks 20.03	Fundamentals of Data Structures and Data Analysis	Dr. B Sathish Babu		III
1	Public Cloud Amazon, Google App Engine, Azure	Cloud Computing Technology and Architectures	Prof. Rajesh R M		5th

3. Evaluation with ICT Tools:

ICT tools offer innovative solutions for assessing student progress and providing timely feedback. Some methods of evaluation using ICT tools include:

- ***Online Assessments:*** Platforms like Quiklrn, Kahoot, Quizizz, or Google Forms enable teachers to create and administer quizzes, tests, and surveys electronically, automating grading and providing instant feedback to students.

Sl.No	*Name of Online Assessment tool*	Name of the Course	Faculty Name	Type of the event assessment	Semester/Year
1	www.quiklrn.com	Fundamentals of data structures and data analysis	Dr B Sathish Babu	Course Quizzes	III Sem.
2	Quiklrn	Information Retrieval Systems and Artificial Intelligence and Machine Learning	Dr.Vijayalakshmi.M.N	Quiz Conduction	V sem
3	www.quiklrn.com	Operating System, Programming in C, Introduction to Python Programming	Prof Somesh Nandi	Quiz	III and II
4	www.quiklrn.com	Design and Analysis of	Prof. Rajesh R M	Quiz	II, IV and V

		Algorithms, Cloud Computing Technology and Architectures Introduction to Python Programming			

· ***Learning Analytics:*** ICT tools collect and analyze data on student performance and engagement, allowing educators to identify trends, assess the effectiveness of instructional strategies, and tailor interventions to meet individual learning needs.

Sl.No	*Name of Learning Analytics*	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year
1	Quiklrn	Operating System, Programming in C, Introduction to Python Programming	Prof Somesh Nandi	Quiz	3/1/2

2	Quiklrn	Design and Analysis of Algorithms, Cloud Computing Technology and Architectures Introduction to Python Programming	Prof. Rajesh R M	Quiz	II, IV and V
3	Quicklrn	Programming in C, Fundamentals of programming using C	S Anupama Kumar	Quiz	I and II

· ***Plagiarism Detection:*** With the proliferation of online resources, plagiarism has become a concern in academic settings. Plagiarism detection software like Turnitin or Grammarly can help educators identify and address instances of academic dishonesty.

Sl.No	*Name of Plagiarism Detection tool*	Name of the Course	Faculty Name	Name of the activity
1	Drill Bit	Operating System	Prof.Somesh Nandi	Experiential Report Evaluation

Feedback and Communication Tools: ICT tools facilitate timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts, and ongoing dialogue to support learning and growth.

Sl.No	*Name of* Feedback and Communication Tools	Name of the Course	Faculty Name	Name of the activity
1	Google Forms	Operating System, Programming in C, Introduction to Python Programming	Prof.Somesh Nandi	Course End Survey
2	Google Forms	Database Management Sytems, Information Retrieval Systems, Artificial Intelligence and Machine Learning,Introduction to Python	Dr.Vijayalakshmi.M.N	Course End Survey

		Programming		
3	Google Forms	NLP, Python	Prof. Priya T V	Course End Survey
4	Google Forms	Data Structures and Data Analysis	Dr, B. Sathish Babu	EL Teams formation Course End Survey
5	Google Forms	Design and Analysis of Algorithms, Introduction to Python Programming, Cloud Computing Technology and Architectures	Prof. Rajesh R M	EL Team formation, Course End Survey

ELECTRICAL AND ELECTRONICS ENGINEERING

Preamble of ICT:

In the contemporary educational landscape, Information and Communication Technology (ICT) tools have revolutionized the way teaching, learning, and evaluation are conducted. This report aims to explore the various ways in which ICT tools are utilized to enhance these crucial aspects of education.

Innovations by the Faculty in Teaching and Learning- ICT Tools

Apart from regular classroom teaching, faculty have the autonomy to exhibit other innovative methods of teaching–learning processes to bring out the best in students.

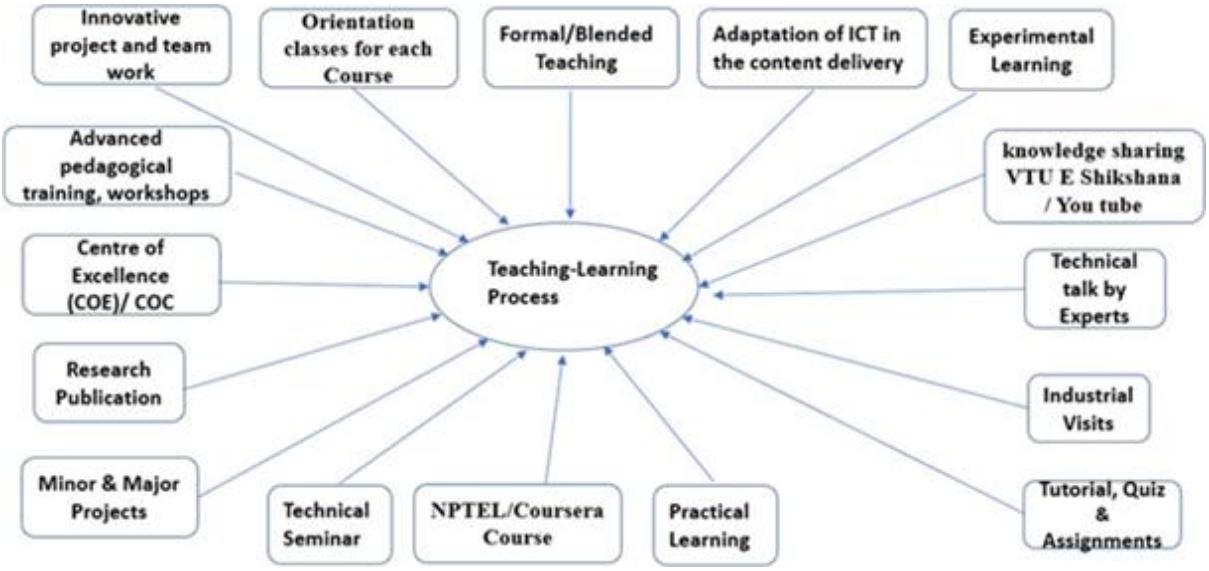


Fig. 1 Innovative teaching and learning methods

The department encourages all faculty to employ various innovative methods in the teaching and learning process as shown in the fig 1. Faculty can always choose the innovative methods that best suit their courses and students, which will have an impact both institution-wide and country-wide. The various teaching learning methods adopted are explained below.

Orientation Classes for Courses

For Higher Semester, an orientation session would be taken up by the subject experts give an insight about the various elective courses offered by the department for that particular semester which in turn helps the students in choosing the right elective as per their interested verticals.

Formal Teaching

Apart from usual black board teaching and PowerPoint presentations the teachers also make use of certain software tools to demonstrate the concepts for better understanding. Related software tools are also taught to the

students for the courses which do not have lab components such as image processing, digital signal processing, Analog mixed mode designs etc. Some of the faculty members make use of innovative aids like Apple iPads and digital pads for better teaching experience. Remedial classes will also be conducted by faculty members for underperforming students after every unit test.

Adoption of ICT in the content delivery

Various ICT Tools such as Quiklrn, Google Classroom, Piazza etc., are being used by the faculties in the department to carry out content delivery, assessment of Assignments and quiz for different courses.

Experiential Learning

Every semester, selected courses have an experiential learning component. Students are required to choose topics from the respective course domain and present their learning. The faculties will scrutinize the topics and give them some basic ideas to start with. The students will prototype their ideas and present them. It is conducted in 2 phases in every semester and evaluation is according to the rubrics.

Assignment

Faculty will provide a list of advanced topics in their courses. Students have to solve numerical problems or survey the existing literature to find the latest innovations in the field. As part of assignments, students should solve complex problems or implement the ideas. This way, students go into depth of the concepts and improve their skills.

Technical Talk

Every semester department will organize technical talks for the UG and PG students by inviting eminent speakers from the industry. Technical talk allows experts to share insight, discoveries and helping students to learn and grow. The Fig 2 shows technical talk by Mr. Srikanth Kashyap from JVS electronics PVT Ltd.

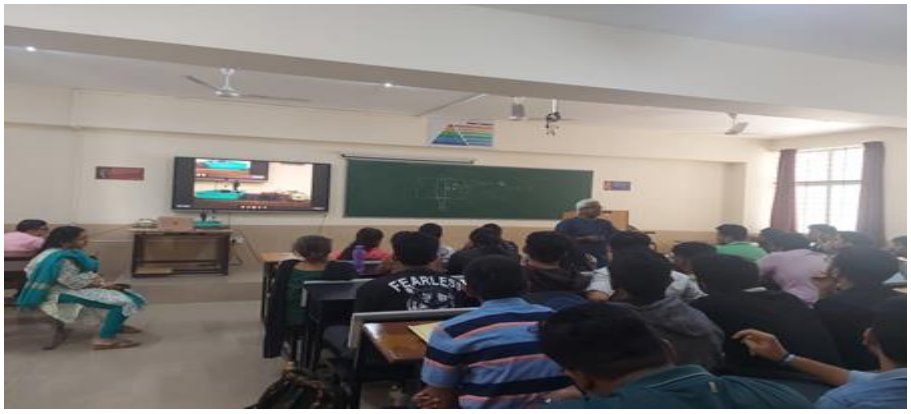


Fig: 2 Technical talk by Mr. Srikanth Kashyap, CTO of JVS Electronics PVT Ltd.

Group activity

Many group activities are conducted in the classroom. For example, the first-year students are asked to do a machine model using thermocol sheets during the elements of electrical class. All the students actively participated in this event and they have cut the thermocol and made many machine parts models. The fig . 3 shows the first year students performing group activity in the class.

Fig. 3: Group activity in the class room

Industry visit

Being a part of interactive learning, such educational visits give students major exposure to real working environments along with a practical perspective of a theoretical concept relevant to their domain. The objective of industrial visits is to bridge the widening gap between theoretical learning and practical exposure by giving students first-hand exposure to identify the inputs and outputs of different business operations and processes performed at the workplace. After the industry visit students will submit a report on the visit and also quiz will be conducted regarding the visit. The Fig.4 shows the visit to 220 KV Sub-Station, Somanahalli for 7th sem UG students.

Fig.4 Visit to 220 KV Sub-Station, Somanahalli, Bengaluru

Faculty work available on the VTU website for peer review:

Faculty Prof. Sushmitha Sarkar has been recommended as a course expert for VTU e-shikshana Programme for the following subject and video lectures are available in the following links.

1. Link for POWER SYSTEM ANALYSIS (SERIES OF 12 LECTURES)

https://www.youtube.com/watch?v=7voNa0tMb1k&list=PLcwp2fRcIXJWFKh_LrhY2Uu07DqDWPPId

2. Link for POWER QUALITY (SERIES OF 8 LECTURES)

https://www.youtube.com/watch?v=xKKr3iuJWM&list=PLcwp2fRcIXJXDXU64Yj3YKpT5h854tW7C&index=8

Active learning:

Apart from passive learning, faculty have innovatively applied various active learning's. Following are few courses where in active learning technique has been applied.

Ø During the pandemic, the theory classes were conducted online and the process of keeping students alert and making them understand the concepts was a challenge. To make the course more interesting and also to evaluate their level of understanding, quizzes were conducted at the end of each class. This was considered as attendance and also a motivation for students to explore their level of understanding. Google Forms are used to conduct these quizzes.

Ø During the pandemic the lab-connected subject theory classes were conducted online. But for practical classes, the teachers used to conduct experiments in the lab and recorded videos were played in the online class. Also, some of the experiments were conducted using the virtual lab.

Open-ended learning

In this environment or a project, the students are not bound by a set of rules or instructions. They do not work under the constraint of producing a

particular result. The outcome of the process can be 'anything'. There can be many solutions to a problem. The faculty is only a 'facilitator'. The main objective of open-ended learning is to encourage the students to explore their creativity.

Minor Projects

Students have minor projects in 6 semesters and they are implementing topics related to their field of interest or faculty's field of expertise. Mini projects will provide students an opportunity to explore their creativity. A group of two students can take up the work and hence it improves their teamwork, leadership skills, and social and ethical skills.

Design thinking lab

Students have a design thinking lab in 4th semester. The proposed theme is to leverage the information and communication technologies to enable the sustainability in quality living conditions and to address some of the day-to-day challenges, an individual or society is facing from all walks of life through design thinking way. The functional areas like Govt. Services, Healthcare, City Services, Agriculture and Industrial automation are considered while designing the problem statements for this lab. There will be teaching faculties to guide and evaluate the students in this lab.

Virtual lab

Virtual Labs are considered one of the most important e-learning techniques, as they enable teachers and students to achieve the educational process' goals. This is done by facilitating the application of the practical side of the curriculum at any time and place, and without any form of restrictions. Students were instructed to use virtual lab tools to perform two experiments in all lab-related subjects. In theory classes also some of the concepts are explained using the virtual lab. Where in all students will bring laptops and and work in the classroom as shown in fig. 5.

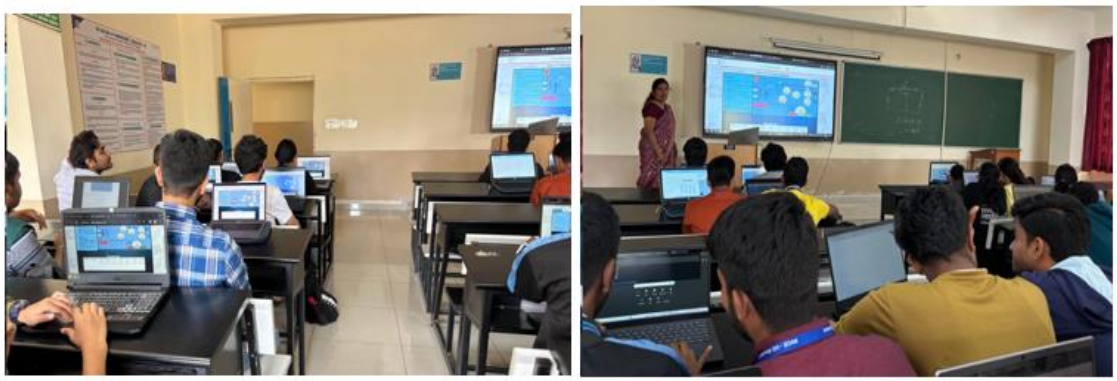


Fig.5: Virtual lab activity

Information and Communication Technologies (ICT) in education:

In a technology-driven and digital society, getting information quickly is important to both faculty and students. The expansion and everyday use of information and communication technologies (ICTs) have made it possible to quickly and instantly find information, share ideas among peer groups, allow faculty to easily interact with students, and provide them with enabling platform for research and exploring new ideas.

Ø **NPTEL videos**: NPTEL videos can be downloaded from library website and students are encouraged to take up online tests conducted by NPTEL from time to time. Usually the tests will be conducted twice in a year and students can clear their doubts with teachers before attending the online tests. This will certify them and build their competency in their preferred areas.

Ø **Webinars:** Some industries have webinars related to latest trends in technology. The webinar co-coordinator will communicate with the industry to know about the upcoming schedule. The webinar schedule is informed to the students and they can attend the same. Provisions are made to enable students to make use of the facility.

Ø **Virtual Labs**: It is an initiative by MHRD to provide remote-access to Labs in various disciplines of Science and Engineering. Students are advised and encouraged to make use of the facility to upgrade their practical skills. In all the courses the faculty and students have utilized the virtual lab experiments.

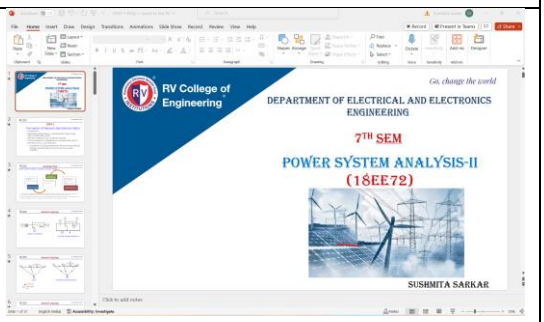
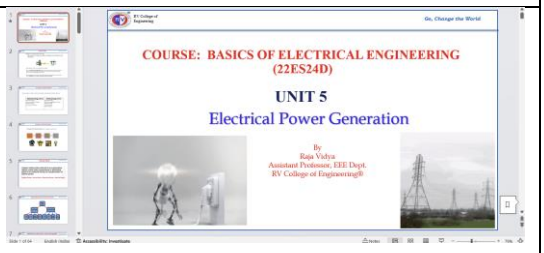
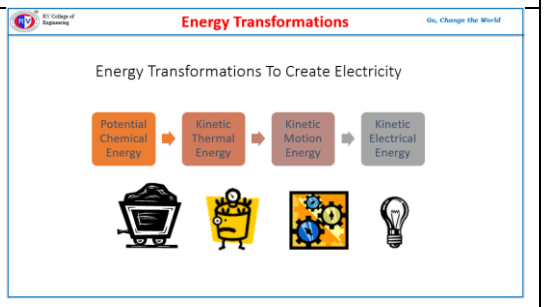
Ø **Digital library**: Students have access to a digital library of RVCE. Digital content can be read anywhere, anytime and helps in quick access to relevant content.

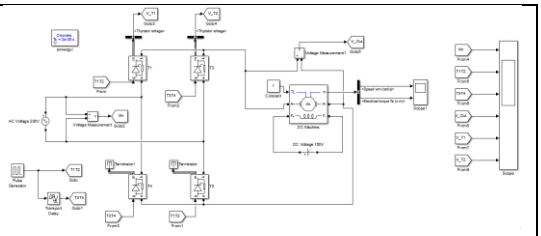
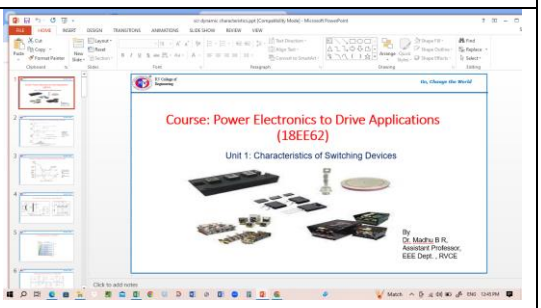
Teaching with ICT Tools:

ICT tools offer educators a plethora of opportunities to engage students and make learning more interactive and effective. Some common ICT tools used for teaching include:

- ***Presentation Software:*** Platforms like Microsoft PowerPoint, Google Slides, or Prezi enable teachers to create visually appealing presentations to deliver content in an organized and engaging manner.

Sl.No	Name of the Faculty	*Presentation Software used*	Sample Screen shot of any one course
1	Dr Suresha C.	Microsoft Powerpoint	
2	Dr Srivani SG	Microsoft Powerpoint	

3	Dr. Vandana Jha	Microsoft Power Point	
4	Dr.Anitha G S	Mcrosoft Powerpoint	
5	Dr Hemalatha J N	Microsoft Power point	
6	Dr Parth Sarathi Panigrahy	Microsoft Power point	
7	Sushmita Sarkar	Microsoft Power point	
8	Dr. Abhilash Krishna D G	Microsoft Power Point	
9	Dr.Adinath Jain	Microsoft Power Point	
10	Raja Vidya	Microsoft Power Point	
11	Dr. Ajay KM	Microsoft Power Point	
12	Dr. Pandry Narendra Rao	Microsoft Power point, Code C (Android apk), Matlab/Simulink	

			
13	Dr. Madhu B R	Microsoft Power Point	

- ***Interactive Whiteboards:*** Interactive whiteboards facilitate dynamic teaching by allowing educators to display multimedia content, annotate, and interact with digital materials in real-time, fostering active participation among students.

Sl.No	No of Interactive Boards in the Department	Specifications of the whiteboard	Image of the whiteboard (smart board)	List the applications, faculties have explored (Like for annotation, real time interaction etc..)
1	Smart TV	Logic 75''		
2	Smart TV	Logic 85''		
3 4	Smart TV	Max Hub 75''		
5	Smart TV	Samsun flip TV 65''		
6	TV	Mircomax TV 42''		
7	Smart Board	INGRESS 85''		

- **Video Conferencing:** Tools such as Zoom, Microsoft Teams, or Google Meet have become indispensable for remote or hybrid learning

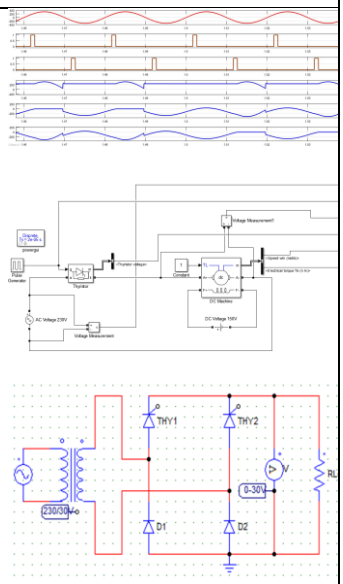
scenarios, enabling live virtual classes, guest lectures, and collaborative projects.

Sl.No	Video Conference tool name	Purpose of the usage	Faculty Name	Photos of the event
1	Webex platform	To take online sessions	Dr SG Srivani	
2	Google Meet	To take online classes	Dr. Vandana Jha	
3	Google Meet	To take online class	Dr Hemalatha J N	
4	Google Meet	To take online classes	Dr. Anitha G S	
5	Google Meet	To take online classess	Dr Parth Sarathi Panigrahy	
6	Webex platform, Google Meet and zoom	To take online classess	Sushmita Sarkar	
7	Google Meet	To take online classess	Dr Abhilash Krishna D G	
8	Google Meet	To take online classess	Dr.Adinath Jain	
9	Google Meet	To take online classess	Raja Vidya	
10	Webex platform	To take online sessions	Raja Vidya	

11	Zoom	To take online sessions	Raja Vidya	
12	Zoom, Google Meet, Webex	To take online classes		
13	Quiklrn	For sharing the material, Quiz	Dr. Pandry Narendra Rao	
14	Zoom, webex,Google meet	to take online classes	Dr Suresh C	

- ***Simulations and Virtual Labs:*** ICT tools offer simulated environments for students to conduct experiments or explore concepts that may be difficult or dangerous to replicate in a physical setting, enhancing experiential learning.

Sl.No	*Name of Simulations and Virtual Labs*	Name of the Course	Faculty Name	Photos of the Activity
1	Virtual High voltage lab(Virtual LAB)	Switch gear protection	Dr SG Srivani	
2	PLC Programming(VIRTUAL LAB)	PLC and Automation	Dr Suresh C	
3	Virtual analog electronics lab from IIT Bombay	Electronics and linear integrated circuits	Dr. Vandana Jha	
4	Virtual lab for Circuit Analysis to verify theorems	Signals & Network Analysis	Dr Hemalatha J N	
5	Virtual Machine lab	Electrical machine	Dr.Anitha G S	
6	Power system Virtual lab from NIT Surathkal	Power System Analysis	Sushmita Sarkar	

7	MATLAB/SIMULINK	Modern Control Theory and Digital Control Systems	Dr Abhilash Krishna D G	
8	Virtual High voltage lab(Virtual LAB)	Electrical Machines	Dr.Adinath Jain	
9	Virtual Labs to Simulate Digital Circuits	Analysis and Design of Digital Circuits	Raja Vidya	
10	MATLAB Simulation and VLABS	Control System Design		
11	Matlab/Simulation, PSIM	Power Converters-1, Advance power converters, Software Programming, and Power Electronics	Dr. Pandry Narendra Rao	
12	Spartan tool for simulation of verilog experiments	Digital design using Veilog	Dr Suresh C	
13	Thinkercad, Simulation of embedded programming u	PG Software Lab	Dr Suresh C	

- ***Educational Apps and Software:*** There is a plethora of educational apps and software tailored to different subjects and age groups, providing interactive lessons, quizzes, and games to reinforce learning objectives.

Sl.No	*Name of Educational Apps and Software*	Name of the Course	Faculty Name	Photos of the Activity
1	Android App for C programming	C-Programming	Dr Suresh c	
2	K- map simulator	Logic Design	Dr Hemalatha J N	
3	Quiklrn, online polling in google meet	Power system Analysis	Sushmita Sarkar	
4	Quiklrn	Modern Control Theory	Dr. Abhilash Krishna D G	
5	Quiklrn, Google Classroom	Elements of electric Engineering	Raja Vidya	
6	Quicklrn, Google Classroom	Control System, Elements of Electrical Engg, Universal Human Values, Generation Transmission and Distribution	Dr. Ajay KM	
7	Code C	Fundamental of programming using C	Dr. Pandry Narendra Rao	

2. Learning with ICT Tools:

ICT tools empower students to take ownership of their learning journey and access educational resources beyond the confines of the classroom. Some ways in which ICT tools facilitate learning include:

- ***Online Resources:*** The internet provides a vast repository of educational materials such as e-books, articles, videos, and tutorials, enabling students to supplement their learning and explore topics at their own pace.

Sl.No	*Type of online resource*	Name of the Course	Faculty Name	Online resource link
1	NPTEL Course	Micro controller	Suresh C	https://onlinecourses.nptel.ac.in/noc22_ee12/preview
2	NPTEL Course	E Mobility	Suresh C	https://onlinecourses.nptel.ac.in/noc22_ee12/preview
3	NPTEL Course	Analog Electronic Circuits	Dr. Vandana Jha	https://onlinecourses.nptel.ac.in/noc23_ee77/preview
4	Youtube videos	Power Electronics	Dr Hemalatha J N	https://www.youtube.com/watch?v=ItOV1nkTlPU https://slideplayer.com/slide/12407810/
5	NPTEL Course	Computer Communication &	Dr Parth Sarathi Pani	https://youtu.be/sG6WGvzmVaw?si=4eQAd2kQCttJc48o

		Networking	grahy	
6	NPTEL Course	Modern Control Theory	Dr. Abhilash Krishna D G	https://onlinecourses.nptel.ac.in/noc21_ee70/preview
7	NPTEL course, Youtube videos, VTU e-sikshana	Power Sysem Analysis	Sushmita Sarkar	VTUe-sikshana-https://www.youtube.com/watch?v=7voNa0tMb1k&list=PLcwp2fRcIXJWFKh_LrhY2Uu07DqDWPPId https://www.youtube.com/watch?v=xKKr3iuJW-M&list=PLcwp2fRcIXJXDXU64Yj3YKpT5h854tW7C&index=8 NPTEL-https://onlinecourses.nptel.ac.in/noc21_ee15/preview
8	NPTEL Course	Electromagnetic Theory	Dr. Vandana Jha	https://onlinecourses.nptel.ac.in/noc21_ee83/preview
7	NPTEL Lecture Videos	AC DC Drives	Dr. Pandry Narendra Rao	https://www.youtube.com/watch?v=Ub-csHc4VhA&list=PLED1B6C0DE8A84B6E

- ***E-Learning Platforms:*** Platforms like Quiklrn, google Sites, Moodle, Blackboard, youtube or Canvas offer a centralized hub for course materials, assignments, discussions, and assessments, fostering a collaborative and structured learning environment.

Sl. No	*Type of E-Learning*	Name of the Course	Faculty Name	*E-Learning Platform* link

	Platforms & Purpose			
1	Google classroom	Micro controller	Suresh C	https://classroom.google.com/c/NjEyODA3MDI0MDYw
2	Google classroom	ADC WITH VERILOG	Suresh C	https://classroom.google.com/c/NjEyODA3MDI0MDYw
3	Google classroom	Object oriented programming	Suresh C	https://classroom.google.com/c/NjQ5MjcwNDg0MTgy
4	Google classroom	Linear integrated circuits	Dr. Vandana Jha	https://classroom.google.com/c/NTA4ODQwNDA0NTgy?cjc=ctyi3n6
5	Google classroom	Principles of Electromagnetics	Dr. Vandana Jha	https://classroom.google.com/c/NTIyODA0Mjc0MzAy?cjc=m6nboiv
6	Google Classroom	Network Analysis	Dr Hemalatha J N	https://classroom.google.com/c/NjUwMDUwNzYxNzIx?cjc=6kshgyk
7	Google Classroom	Modern Control Theory	Dr. Abhilash Krishna D G	https://classroom.google.com/c/NTIyNTkyODgzNDYz?cjc=k65h5ix
8	Google Classroom	Digital Control Systems	Dr. Abhilash Krishna D G	https://classroom.google.com/c/NjU1MzYxNDI3Njky?cjc=lbkpkec

9	Google Classroom	Power system Analysis-1, Power System Analysis-2. English lab, power quality, Minor Project, Design Thinking Lab	Sushmita Sarkar	PSA2: https://classroom.google.com/c/NjQwNjg4MzUyODE1 PSA-1: https://classroom.google.com/c/NjA5OTkwMjc1NDQ2 English Lab: https://classroom.google.com/c/NTg1OTQ3NzQ4MzYx Power quality: https://classroom.google.com/c/NDY1MTk4MzMzMDE4 Minor Project: https://classroom.google.com/c/NDE1Mzc0ODEyNzkw DTL: https://classroom.google.com/c/NjE0OTkyMTc5MjE2
10	Google classroom	Electronics and Linear Integrated Circuits	Dr. Vandana Jha	https://classroom.google.com/c/NjQ5NzY1NTkyNjYy?cjc=fno3wv2
11	Google classroom	Basic of Electrical Engineering	Dr.Adinath Jain	https://classroom.google.com/c/NjM4MjI2NjA5Mzc2?cjc=i22vhxo
12	Google classroom	Electrical Machines	Dr.Adinath Jain	https://classroom.google.com/c/NjUwNDYzOTU1MDk3?cjc=4tv2lmi
13	Google classroom	ARM Microcontroller and Embedded Systems, VLSI Circuit	Raja Vidya	ARM Microcontroller and Embedded Systems https://classroom.google.com/w/NjExNzQ2MzQzMjM3/t/all VLSI Circuit and Design

		and Design, e Mobility, Basics of Electrical Engineering, Renewable Energy Sources, Analysis and Design of Digital Circuits		https://classroom.google.com/w/NjUwNjM3NDg2MTc5/t/all e Mobility https://classroom.google.com/w/NTgwNjk5MjczNTQw/t/all Basics of Electrical Engineering https://classroom.google.com/w/NjE0OTI1NjgxMTU0/t/all Renewable Energy Sources https://classroom.google.com/w/NjMyOTE1NDIxNDcx/t/all Analysis and Design of Digital Circuits https://classroom.google.com/w/NDA2NTcxOTE5NTYw/t/all
14	Google Classroom	Control System, Elements of Electrical Engg, Universal Human Values, Generation Transmission and Distribution	Dr. Ajay K M	Elements of Electrical Engg: https://classroom.google.com/c/NjE1NjE1ODk2MTkw?cjc=7jnstcn Control System https://classroom.google.com/c/NDk2NzE3OTU4NjI5?cjc=mkjmdjo Generation Transmission and Distribution https://classroom.google.com/c/NTA3NzI1MzIwNjIw?cjc=6dycf4s UHV https://classroom.google.com/c/NjE1NjE1ODk2MTkw?cjc=7jnstcn Field Theory

				https://classroom.google.com/c/NDEwMjg4MzY3Mjg2?cjc=she5t3q

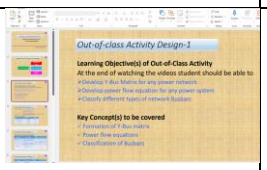
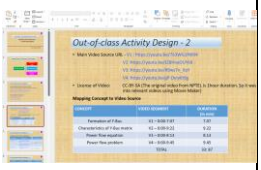
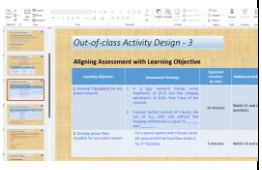
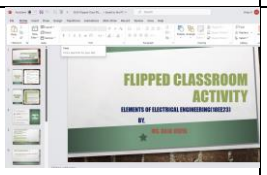
- ***Adaptive Learning Systems:*** ICT tools leverage adaptive learning algorithms to personalize the learning experience based on each student's strengths, weaknesses, and learning pace, ensuring tailored instruction and optimal comprehension.

Sl.No	*Type of Adaptive Learning Systems*	Name of the Course	Faculty Name	*Outcome of ALS*
1	Innovative lab and experiential learning	Power System Analysis	Sushmita Sarkar	Students developed virtual labs for power system concepts by using various adaptive algorithms
2	Innovative Lab using Proteus and Explored LPC2148 Evaluation Board to develop Various Projects	ARM Microcontroller and Embedded Systems	Raja Vidya	Students of 6th Semester simulated LPC2148 Microcontroller with many Interfaces and Same is developed using LPC evaluation board which is above their academics requirements. Students got very good exposure on how to adopt these boards and

				Simulation tools to real time applications.
3	Cadence and FPGA Board Exposure	VLSI Circuit and Design	Raja Vidya	VLSI Circuit and Design is a Local Elective offered to students without Lab Component. But they were exposed to learn Cadence Software and FPGA boards where they learned to Simulate basic Gates, Combinational and Sequential Circuits and Using Verilog coding they programmed FPGA Boards. Since these are used in aligned Industries, Students got very good exposure to learn on these Industry tools which made them Industry ready!!

- ***Collaborative learning techniques/Tools***: Tools like Google Workspace, Microsoft Office 365, or collaborative whiteboard apps

facilitate group projects, peer review, and collaborative problem-solving, promoting teamwork and communication skills.

Sl.No	*Name of Collaborative learning techniques/Tools*	Name of the Course	Faculty Name	Photos of the Activity	Semester/Year
1	Group Activity	Power Converters	Dr Hemalatha J N		I sem PG/2024
2	Flipped Classroom and regular group activites	Power System Analysis	Sushmita Sarkar	  	7th sem UG
3	Flipped Classroom Activity	Elements of Electrical Engineering	Raja Vidya		2nd Sem UG

3. Evaluation with ICT Tools:

ICT tools offer innovative solutions for assessing student progress and providing timely feedback. Some methods of evaluation using ICT tools include:

- ***Online Assessments:*** Platforms like Quiklrn, Kahoot, Quizizz, or Google Forms enable teachers to create and administer quizzes, tests, and surveys electronically, automating grading and providing instant feedback to students.

Sl.No	*Name of Online*	Name of the Course	Faculty Name	Type of the event	Semester/Year

	Assessment tool			assessment	
1	Quiklrn	Signals & Network Analysis	Dr Hemalatha J N	Quiz	3rd sem UG/2024
2	Quiklrn	Electronics and linear integrated circuits	Dr. Vandana Jha	Quiz	3rd sem UG/2024
3	Quiklrn	Modern Control Theory	Dr. Abhilash Krishna D G	Quiz	6th Sem UG/2023
4	Quiklrn	Power System Analysis-1 and Power System Analysis-2	Sushmita Sarkar	Quiz	6th and 7th sem UG/2020, 2021, 2022, 2023
5	Quiklrn	Basics of Electrical Engineering	Dr.Adinath Jain	Quiz	1st sem UG 2022
6	Quiklrn	Fundamental of Indian Constitution	Dr.Adinath Jain	Quiz & Test	1st sem UG 2022
7	Quiklrn	Electrical Machines	Dr.Adinath Jain	Quiz	5th sem UG 2021
8	Quiklrn	Basics of Electrical Engineering, VLSI Circuit and Design, ARM Microcontroller and Embedded Systems	Raja Vidya	Quiz	1st, 6th sem, 5th Sem
9	Quiklrn	Fundamentals of C-programming, Basic of	Dr. Pandry Narendra Rao	Quiz	1st sem UG, 2nd sem UG

		Electrical Engineering			

- ***E-Portfolios:*** Digital portfolios allow students to showcase their work, reflections, and achievements over time, providing a holistic view of their learning journey and enabling self-assessment and peer feedback.

Sl.No	*Name of* E-Portfolios	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year
1	Google Classroom	Elements of Electrical Engineering	Raja Vidya	Experiential Learning	2nd Sem, 6th Sem
2	Google Classroom	Fundamentals of C-programming, Basic of Electrical Engineering	Dr. Pandry Narendra Rao	Experiential Learning	1st sem UG, 2nd sem UG

Feedback and Communication Tools: ICT tools facilitate timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts, and ongoing dialogue to support learning and growth.

Sl.No	*Name of* Feedback and Communication Tools	Name of the Course	Faculty Name	Name of the activity
1	Google class room	Signals & Network Analysis	Dr Hemalatha J N	Experiential Learning
2	Google class room, google form	Power system analysis	Sushmita sarkar	Course end survey, Assignments, Experiential learning

3	Google class room, google form	Electronics and linear integrated circuits	Dr. Vandana Jha	Course end survey, Experiential learning
4	Google class room	Electrical Machines	Dr Adinath Jain	Experiential Learning
5	Google Classroom, Google Forms	Basics of Electrical Engineering, ARM Microcontroller and Embedded Systems	Raja Vidya	Course End Survey, Experiential Learning, Quizzes

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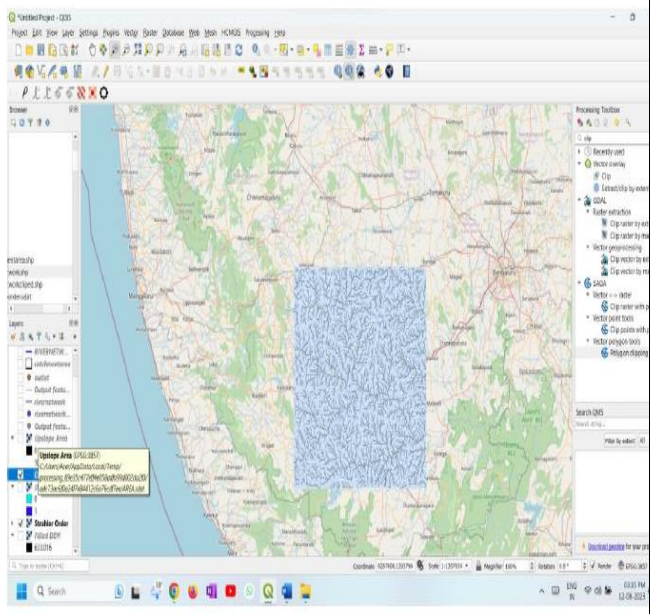
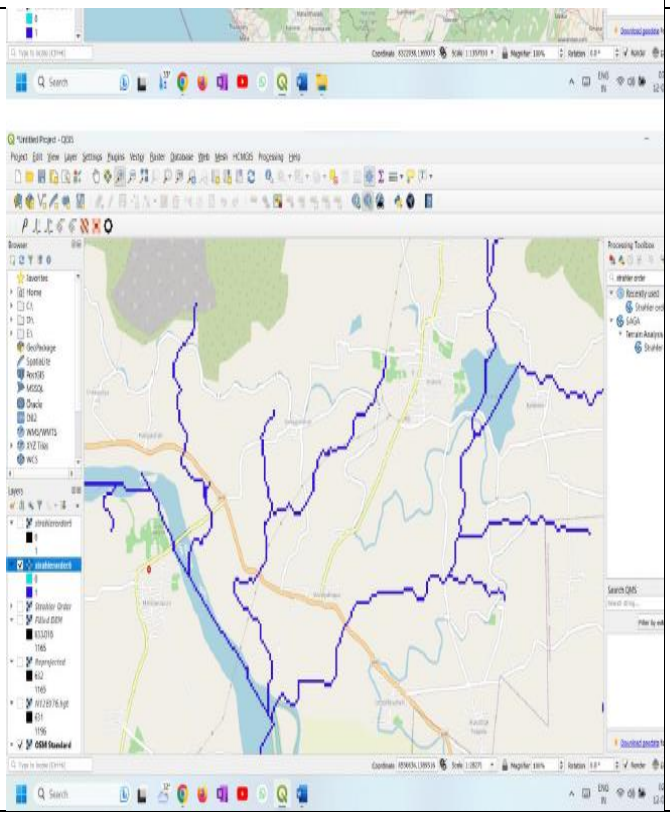
DEPARTMENT OF CIVIL ENGINEERING

Course Name- Integrated Watershed Management

Course Code-18CV6C5

Faculty – Gowtham Prasad M E





Brief Summary

Experiential Learning Component for the course Integrated Watershed Management- Students are exposed to Reservoirs components and understand the intricacies of water management, hydrology, and dam engineering. Students were exposed to various hydrology tools for evaluation of watershed parameters, water quality, flood hazard mapping using GIS software.

Outcomes

The students were able to

1. Understand the details of reservoir components
2. Explore the tools in GIS Software for watershed management and water quality
3. Understand flood hazard mapping using GIS software
4. Understand various water quality parameters for drinking and irrigation purpose.

Impact Analysis

Students were able to

1. Assessment of water quality integrated with GIS tools
2. Evaluate the watershed characteristics with GIS tools
3. Digitize watershed boundary using digital elevation modelling
4. Identify flood zone in catchment area

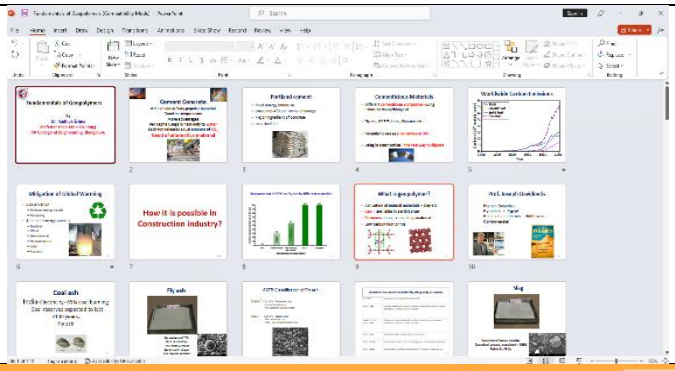
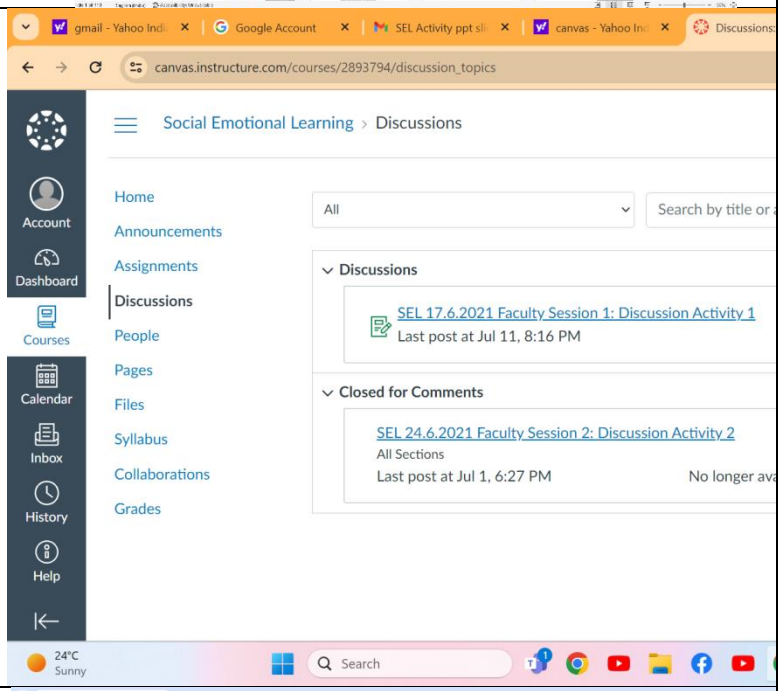
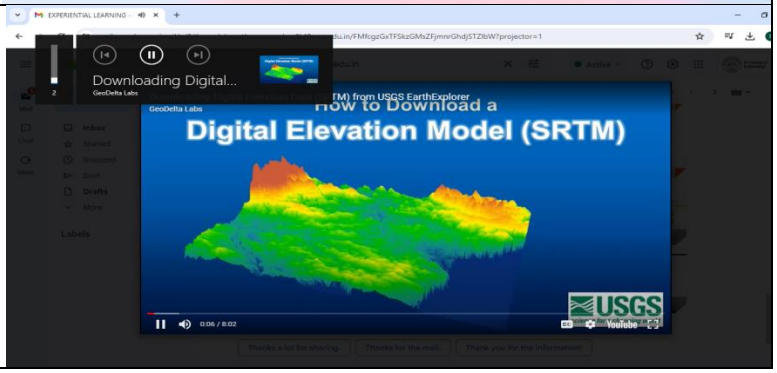
Preamble of ICT:

In the contemporary educational landscape, Information and Communication Technology (ICT) tools have revolutionized the way teaching, learning, and evaluation are conducted. This report aims to explore the various ways in which ICT tools are utilized to enhance these crucial aspects of education.

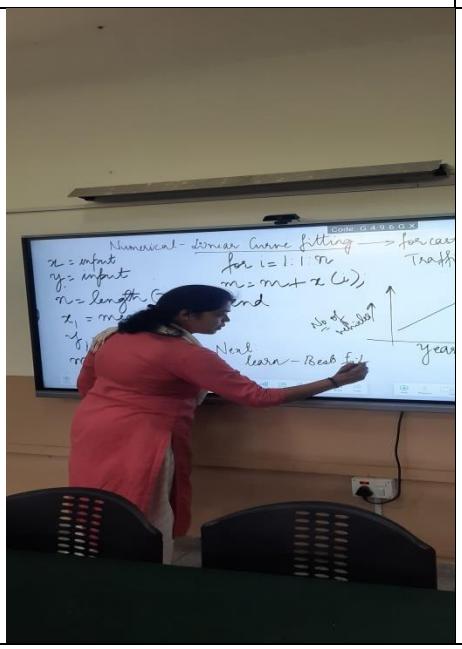
1. Teaching with ICT Tools:

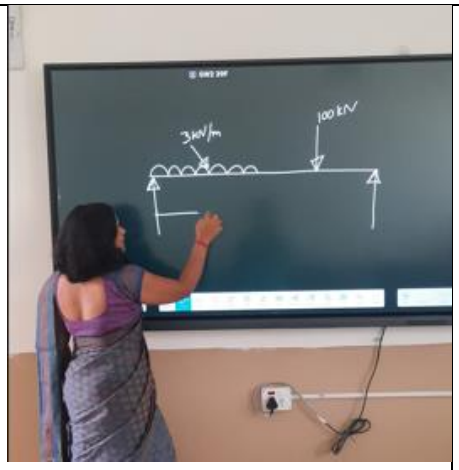
ICT tools offer educators a plethora of opportunities to engage students and make learning more interactive and effective. Some common ICT tools used for teaching include:

- ***Presentation Software:*** Platforms like Microsoft PowerPoint, Google Slides, or Prezi enable teachers to create visually appealing presentations to deliver content in an organized and engaging manner.

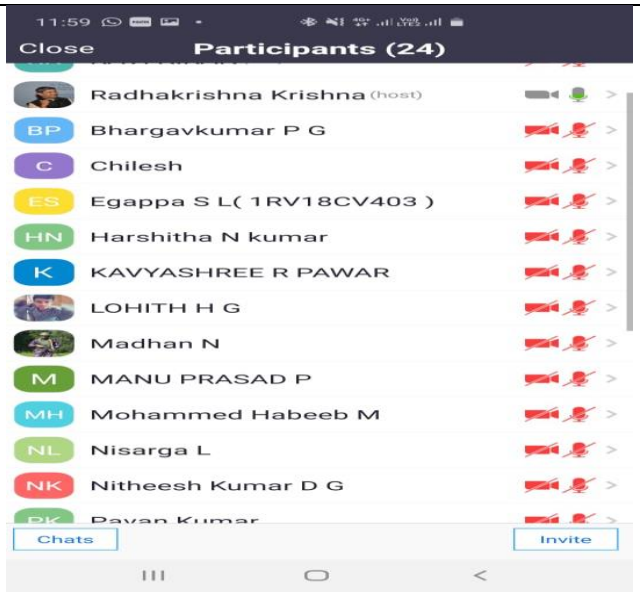
Sl. No	Name of the Faculty	*Presentation Software used*	Sample Screen shot of any one course
1	Dr Radha krishna	Microsoft PPT	
2	Renuka devi M V	Canvas	
3	Gowtham Prasad M E	USGS Earth Explorer	

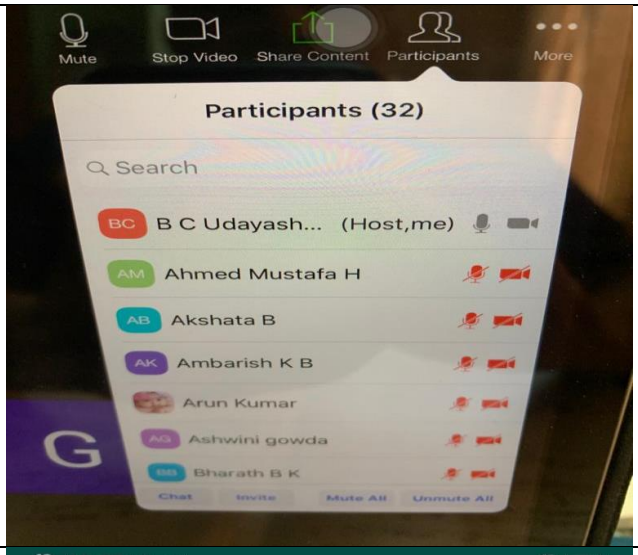
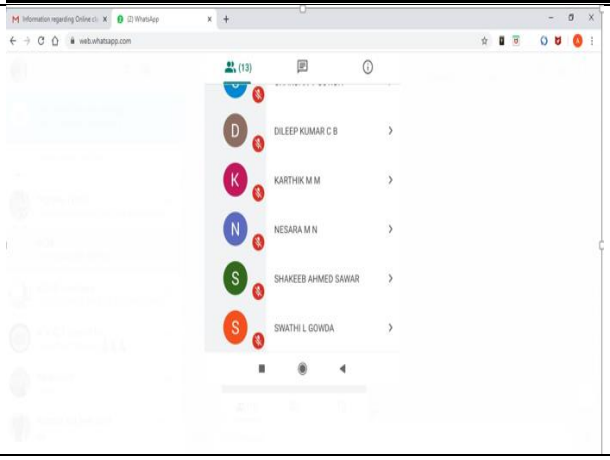
- ***Interactive Whiteboards:*** Interactive whiteboards facilitate dynamic teaching by allowing educators to display multimedia content, annotate, and interact with digital materials in real-time, fostering active participation among students.

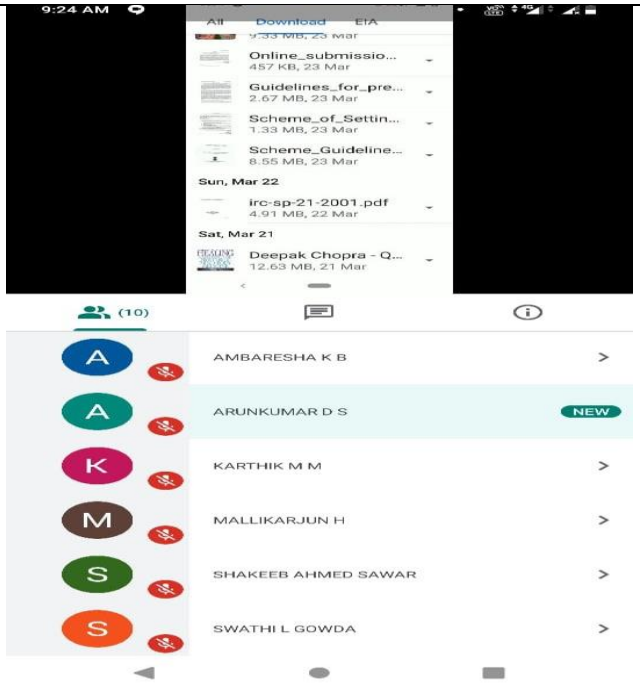
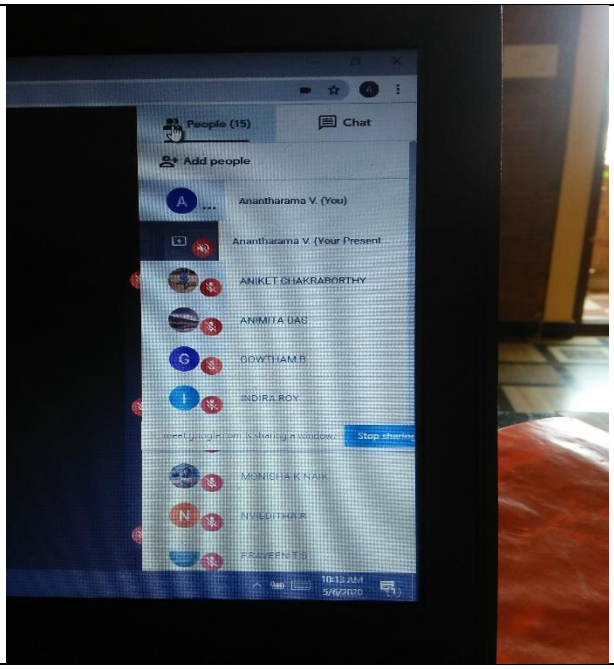
Sl. No	No of Interactive Boards in the Department	Specifications of the whiteboard	Image of the whiteboard (smart board)	List the applications, faculties have explored (Like for annotation, real time interaction etc..)
1	3	MaxHub Smart Interactive Display E7520CE-75" 4K Infrared Touch Screen with (Android-11, 4GB RAM, 32GB ROM) (i5 11 Generation Processor, Windows 10Pro 8GB RAM, 128GB SSD)		Used for PPT display, Annotate while solving application oriented problems,

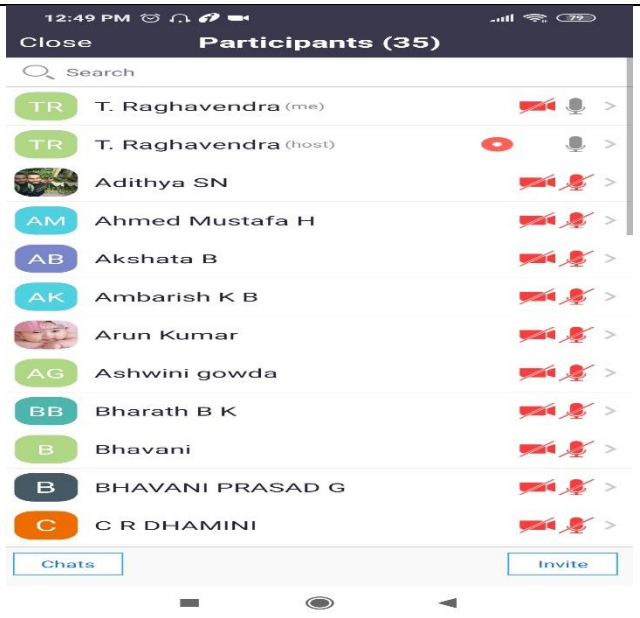
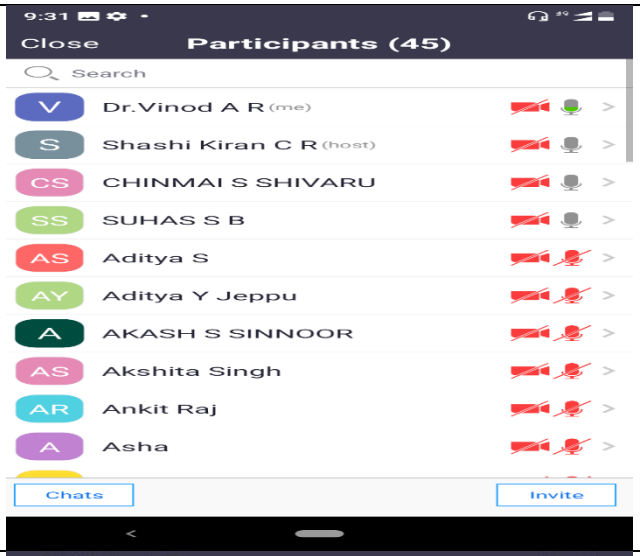
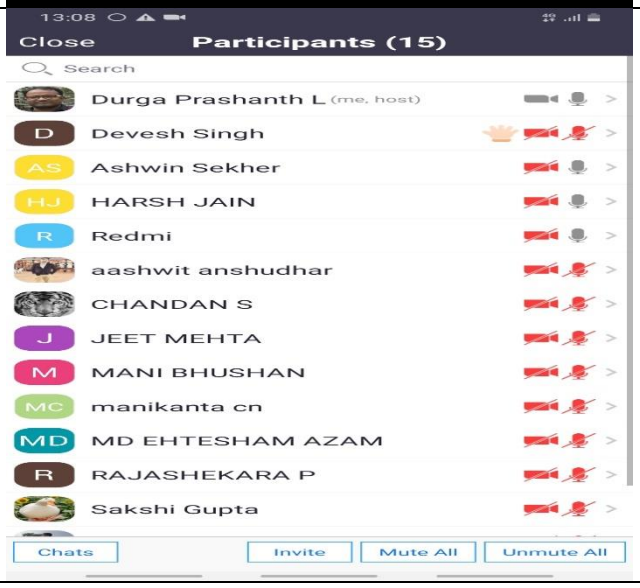
2	3	Logic Display 09/LT-IR86AX-AiO Computer 86" SITP (AVIOTH2113/OPS-Ax11i58/256 – 11th Generation Intel Core i5 8GB RAM, 256GB SSD)		Used for PPT display, Annotate while solving application oriented problems

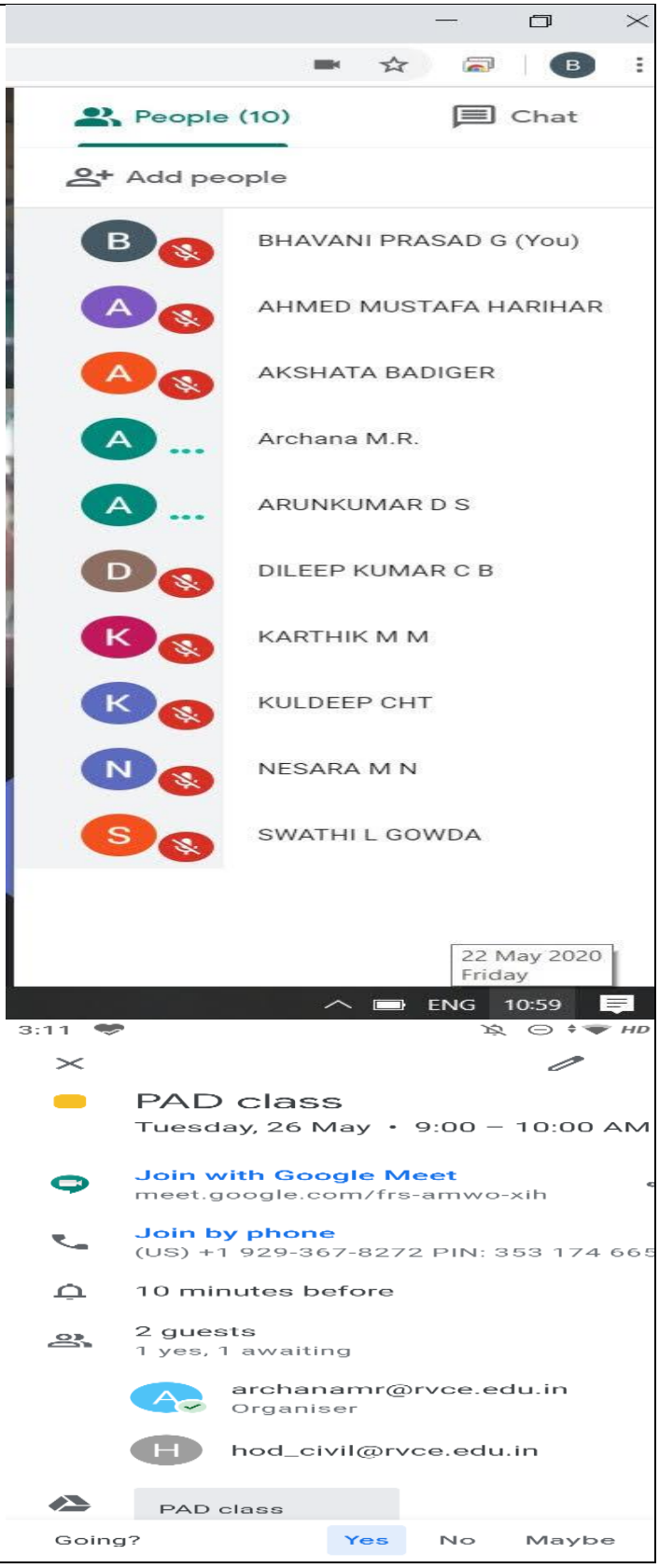
- **Video Conferencing:** Tools such as Zoom, Microsoft Teams, or Google Meet have become indispensable for remote or hybrid learning scenarios, enabling live virtual classes, guest lectures, and collaborative projects.

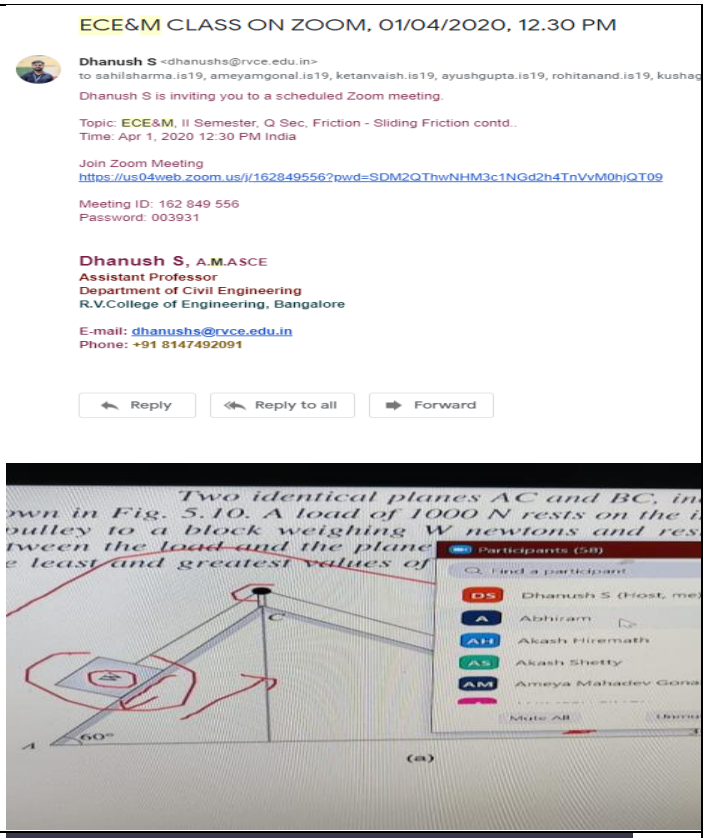
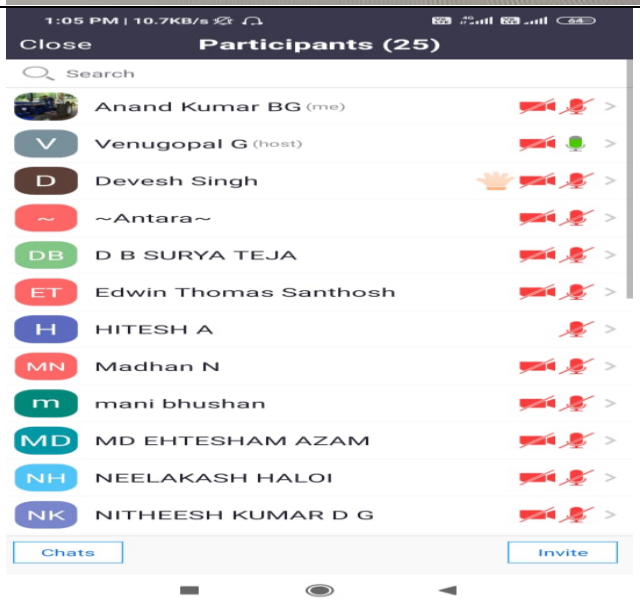
Sl. No	Video Conference tool name	Purpose of the usage	Faculty Name	Photos of the event
1	Google Meeting	Online Class during COVID	Radhakrishna	

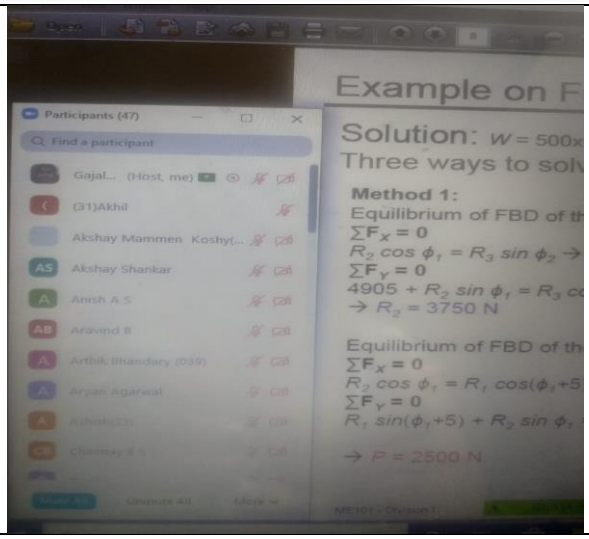
2	Google Meeting	Online Class during COVID	BC Udayashankar	
3	Zoom Meeting	Online Class during COVID	M V Renuka Devi	
4	Google Meeting	Online Class during COVID	Anjaneyappa	

5	Google Meeting	Online Class during COVID	M S Nagakumar	
6	Google Meeting	Online Class during COVID	Anantharama V	

7	Google Meeting	Online Class during COVID	T Raghavendra	
8	Google Meeting	Online Class during COVID	A R Vinod	
9	Google Meeting	Online Class during COVID	Durga Prashanth L	

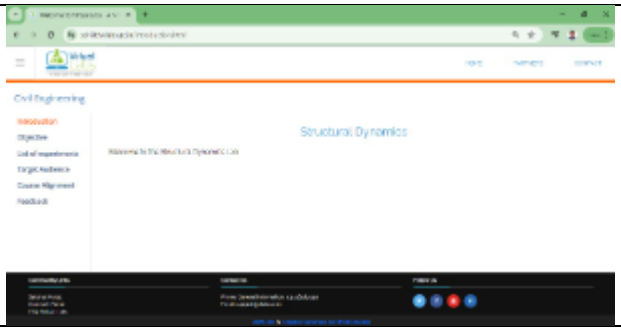
10	Google Meeting	Online Class during COVID	Archana M R	

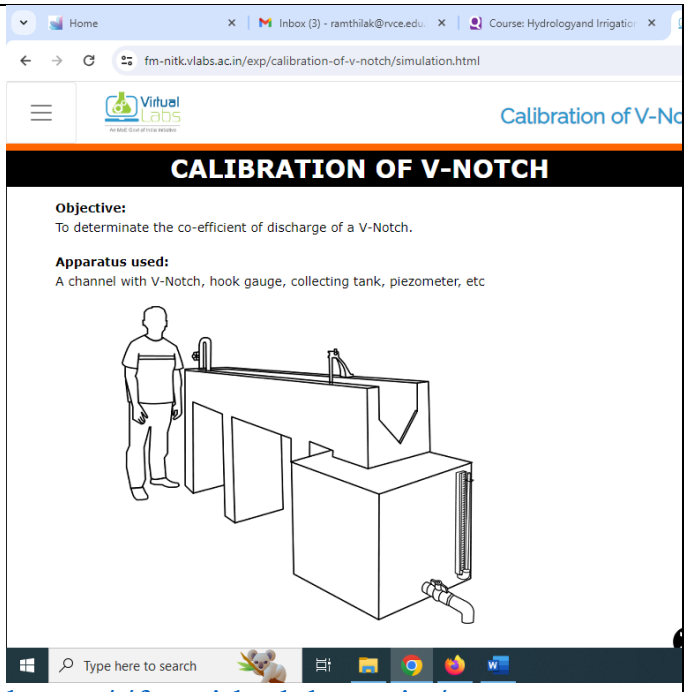
11	Zoom Meeting	Online Class during COVID	Dhanush S	
12	Google Meeting	Online Class during COVID	Venugopal G	

13	Google Meeting	Online Class during COVID	Gowtham Prasad M E	
14	Google Meeting	Online Class during COVID	K Gajalakshmi	

- ***Simulations and Virtual Labs:*** ICT tools offer simulated environments for students to conduct experiments or explore concepts that may be difficult or dangerous to replicate in a physical setting, enhancing experiential learning.

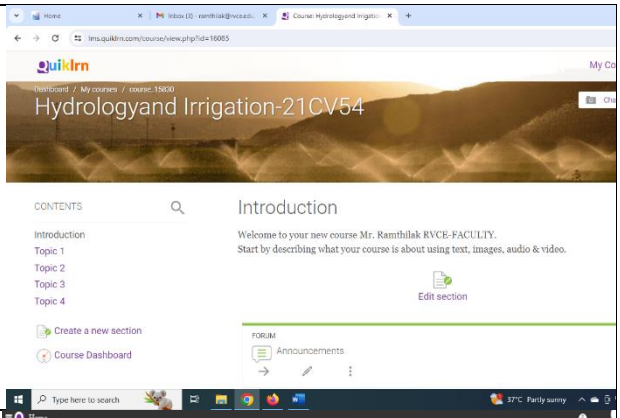
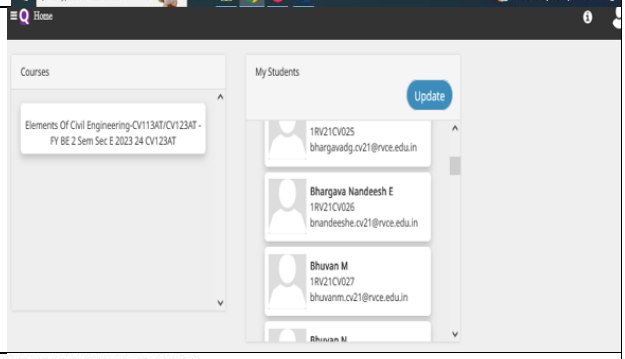
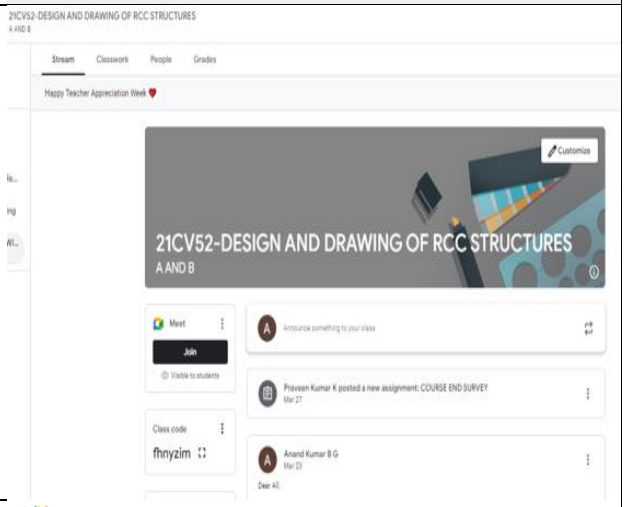
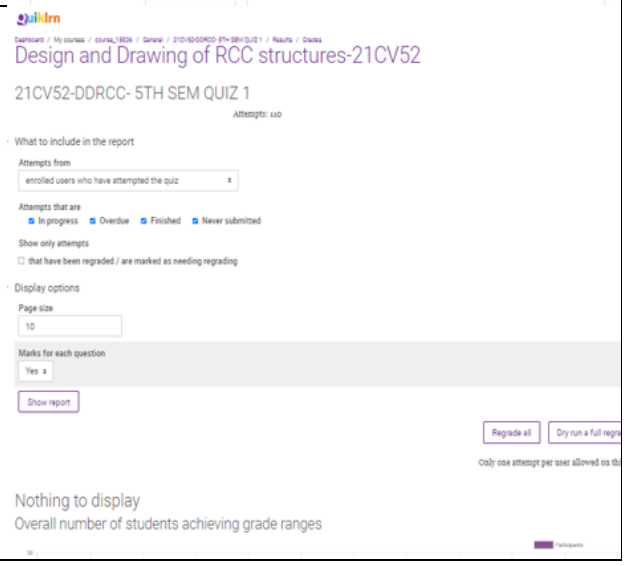
Sl.No	*Name of Simulations and Virtual Labs*	Name of the Course	Faculty Name	Photos of the Activity

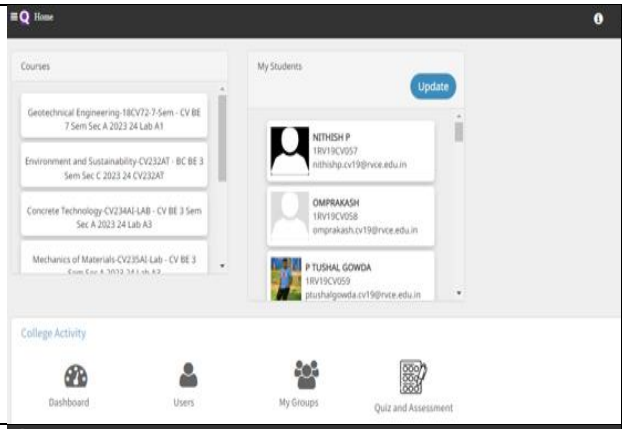
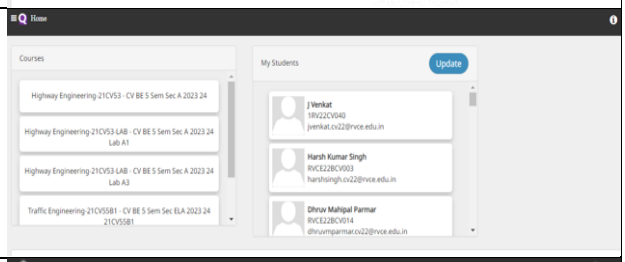
1	Structural Dynamics Lab	Structural Dynamics	Ashwin Thammaiah K	
2	Geotechincal Engineering lab	Geotechnical Engineering	Nethravathi S/ Venugopal G	https://smfe-iiith.vlabs.ac.in/List%20of%20experiments.html
3	Concrete Structures Lab	Concrete Technology	K Praveen Kumar/Shrithi S Badami	Welcome to Virtual Labs - A MHRD Govt of india Initiative (vlabs.ac.in)
4	Design and Drawing of Steel Structures LAB	Design and Drawing of Steel Structures	Madhavi K	https://classroom.google.com/g/tg/NjE0NzE1NTg4Mjgy/NjE0NzE5OTgyNjg0#u=MjYyMDUyMDc4OTk5&t=f
5	Mechanics of Materials Lab	Mechanics of Materials	Ravikiran S Wali/ Shashi Kiran C R	https://sm-nitk.vlabs.ac.in/List%20of%20experiments.html
6	Fluid Mechanics Lab	Fluid Mechanics	Ramthilak`/Sindhu D/Gowtham Prasad M E	

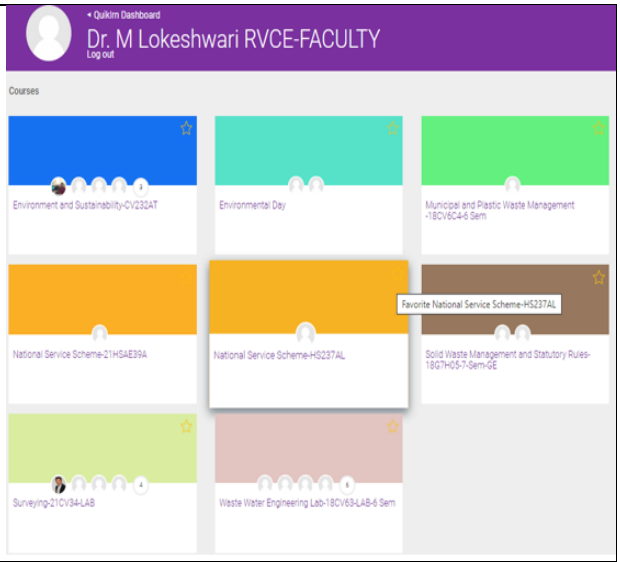
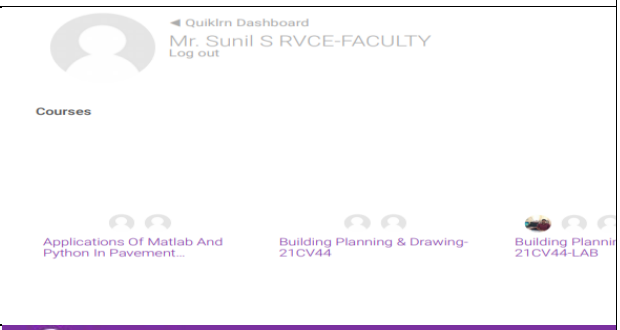
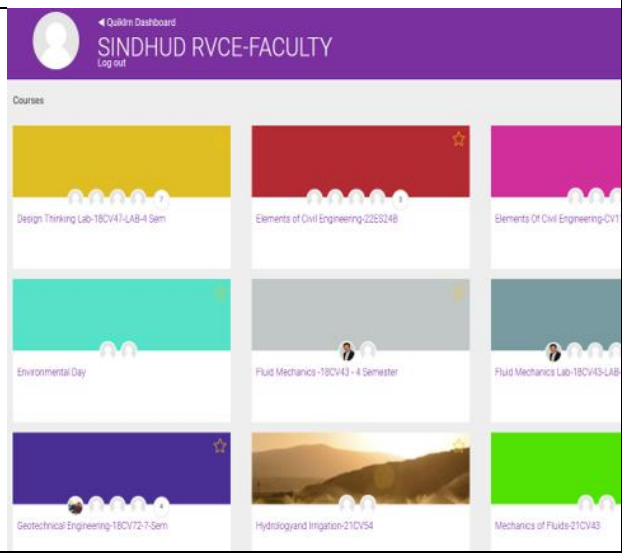
				 https://fm-nitk.vlabs.ac.in/
7	Environmental Engineering Lab	Waste Water Engineering	Shashi Kiran C R / A R Vinod / Lokeshwari M	https://ee1-nitk.vlabs.ac.in/ https://ee2-nitk.vlabs.ac.in/

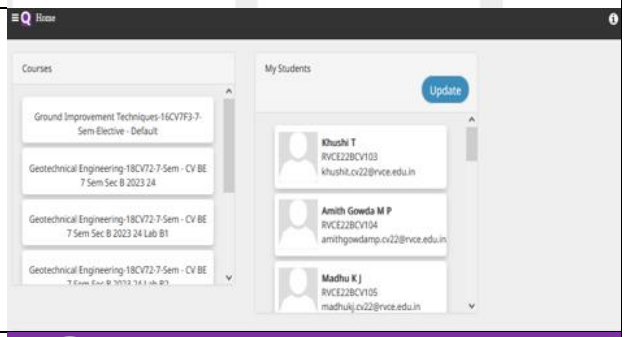
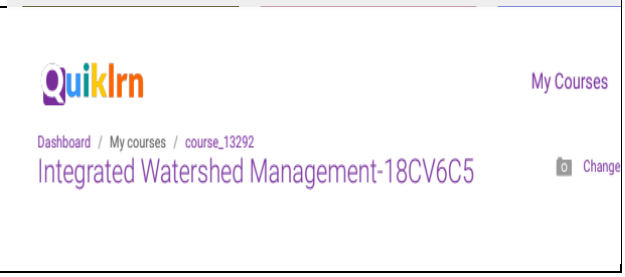
- ***Educational Apps and Software:*** There is a plethora of educational apps and software tailored to different subjects and age groups, providing interactive lessons, quizzes, and games to reinforce learning objectives.

Sl. No	*Name of Educational Apps and Software*	Name of the Course	Faculty Name	Photos of the Activity

1	Quiklrn	21CV54 Hydrology and Irrigation Engineering	Ram thilak	
2	Quiklrn	Elements of Civil Engineering CVI13AT /CVI23AT	Nethravathi S	
3	Google Classroom	Design and Drawing of RCC 21CV52	Anand Kumar B G	
4	Quiklrn	Design and Drawing of RCC 21CV52	Anand Kumar B G	

5	Quiklrn	Environment and Sustainability CV232AT	Vageesh H P	
6	Quiklrn	Highway Engineering 21CV53	Durga Prashanth L	
7	Quiklrn	Mechanics of Materials CV235AI	Somanath M Basutkar	
8	Quiklrn	Concrete Technology 21CV35	Ashwin Thammaiah K	

9	Quiklrn	National Service Scheme 21HSAE39A	Lokeshwari M	
10	Quiklrn	Building Planning & Drawing 21CV44	Sunil S	
11	Quiklrn	Elements of Civil Engineering 22ES24B	Sindhu D	

12	Quiklrn	Computational Structral Mechanics 22MST12TL	Madhavi K	
13	Quiklrn	Geotechnical Engineering 18CV72	Venugopal G	
14	Quiklrn	Civil Engineering Materials – 21CV42	Varuna M	
15	Quiklrn	Integrated Watershed Management – 18CV6C5	Gowtham Prasad M E	

2. Learning with ICT Tools:

ICT tools empower students to take ownership of their learning journey and access educational resources beyond the confines of the classroom. Some ways in which ICT tools facilitate learning include:

- ***Online Resources:*** The internet provides a vast repository of educational materials such as e-books, articles, videos, and tutorials, enabling students to supplement their learning and explore topics at their own pace.

Sl.No	*Type of online resource*	Name of the Course	Faculty Name	Online resource link
1	E BOOKS /CODE BOOKS	Pavement materials and link	Varuna M	https://law.resource.org/pub/in/bis/manifest.irc.html
2	Youtube link and Code book	Pavement Materials	Archana M R	https://www.youtube.com/watch?v=0_PxVAArtjw https://www.youtube.com/watch?v=G8hrchzKh3U https://law.resource.org/pub/in/bis/irc/irc.gov.in.sp.053.2010.pdf https://www.youtube.com/watch?v=ESz47p3IGEQ https://www.youtube.com/watch?v=2vXKTrIvWRo https://www.youtube.com/watch?v=CN8h3wLo0_M
3	Youtube links	Structural Dynamics	M V Renuka Devi	https://www.youtube.com/watch?v=N2uJ-OKRip8 https://www.youtube.com/watch?v=usNYJlAI8uY
4	Youtube links	Structural Dynamics Lab	Ashwin Thammaiah K	https://youtu.be/cDS_hm2Grds?feature=shared https://youtu.be/qxHhXnmzMGI?feature=shared
5	Youtube links	Constitution of India & Professional Ethics	A R Vinod	https://www.youtube.com/watch?v=8ePMJe_4XFg
6	Youtube links	Geotechnical Engineering	Nethravathi S / Venugopal G	https://www.youtube.com/watch?v=N2mfiEh-4q0
7	NPTEL/ Swayam	Design and drawing of Steel structures	Madhavi K	https://youtu.be/LrDdQvXnv-0?list=PLPYKd0KLmzo5e4g4-DGlGGYQugyWBeYMn

8	NPTEL/ Swayam	Engineering Mechanics	Madhavi K	https://youtu.be/nGfVTNfNwnk?list=PLOSWwFV98rfKXq2KBphJz95rao7q8PpwT
9	Youtube links	Geotechnical Engineering	Nethravathi S / Venugopal G	https://youtu.be/tr0yOf4JaYU
10	Youtube links	Geotechnical Engineering	Nethravathi S / Venugopal G	https://youtu.be/QuE4tEK-5iY
11	Youtube /NPTEL /Swayam	Design and Drawing of Steel Structures	K Praveen Kumar	https://youtu.be/LrDdQvXnv-0?list=PLPYKd0KLmzo5e4g4-DGlGGYQugyWBeYMn
12	Youtube links	Structural Analysis	Somanath M Basutkar / Vikas M	https://www.youtube.com/watch?v=Hn_iozUo9m4
13	Youtube links	Strength of Materials	Somanath M Basutkar / Ashwin Thammaiah K	https://www.youtube.com/watch?v=f08Y39UiC-o
14	Youtube links	Advanced Design of RCC Structures	Ravikiran S Wali	https://www.youtube.com/watch?v=kPstcBkN6u8
15	Software Tutorial	Geographic Information System in Transportation	Ramthilak`	https://www.esri.com/en-us/arcgis/products/arcgis-pro/resources
16	EBook	Water Supply Engineering	Shashi Kiran C R / A R Vinod	https://books.google.co.in/books?id=74HYY31zwhQC&printsec=copyright&redir_esc=y#v=onepage&q&f=false
17	Software Tutorial / E-Book	INTEGRATED WATERSHED MANAGEMENT	Gowtham Prasad M E / Sindhu D / Ramthilak	http://ecoursesonline.iasri.res.in/mod/page/view.php?id=2105 https://www.qgis.org/en/site/forusers/download.html# https://docs.qgis.org/3.28/en/docs/user_manual/

		-18CV6C5		https://docs.qgis.org/3.28/en/docs/server_manual/ https://docs.qgis.org/3.28/en/docs/training_manual/ https://docs.qgis.org/3.28/en/docs/gentle_gis_introduction/
18	Youtube links	Highway construction and maintenance	Anjaneyappa	https://youtube.com/@dranjaneyappa5875?si=B1snJaato33gITli
19	EBooks	Concrete Technology	Radhakrishna	https://doi.org/10.1201/9781482272215

- ***E-Learning Platforms:*** Platforms like Quiklrn, google Sites, Moodle, Blackboard, youtube or Canvas offer a centralized hub for course materials, assignments, discussions, and assessments, fostering a collaborative and structured learning environment.

Sl. No	*Type of E-Learning Platforms & Purpose*	Name of the Course	Faculty Name	*E-Learning Platform* link
1	Google Classroom Notes	Pavement Materials and Design	Varuna M	https://classroom.google.com/c/NTA3NTIzMzA5OTYw
2	McGraw Hill English learning platform	English Language Lab 18HS17	Gowtham Prasad, Ram Thilak	https://connect.edu.mheducation.com/instructor/courses
3	Google Classroom Notes	Design & Drawing of RCC Structures 21CV52	Anandkumar B G/ Praveen Kumar K	https://classroom.google.com/c/NjQ0NjU1MjAwMDc4
4	Google Classroom	Geotechnical	Nethravathi S /	https://classroom.google.com/u/1/c/NjQxMjM4MjUyODMx

	Notes	Engineering	Venugopal G	
5	Google Classroom Notes	Transportation Engineering	Sunil S / Varuna M	https://classroom.google.com/c/NTU5MTc0MDM0NzNa
6	Google Classroom Notes	18CV6D4 - CONSTRUCTION MANAGEMENT	Praveen Kumar K	https://classroom.google.com/c/NjEzMjk2MzkxMTYw
8	Google Classroom Notes	Environment & Sustainability - CV232AT	Vageesh H P / Shashi Kiran C R	https://classroom.google.com/u/1/c/NjUwODc5NTQ1MDUx
9	Google Classroom Notes	Disaster Management – 18G6E05	Gajalakshmi K / Vageesh H P	https://classroom.google.com/u/1/c/NjA5MDU1MjExNDU1
10	Google Classroom Notes	CONCRETE TECHNOLOGY - CV234AI	Shrithi S Badami/ Praveen Kumar K	https://classroom.google.com/c/NjUwNzgxMzk2NTMy
11	Google Classroom Notes	Engineering Mechanics - 22CV13	K Madhavi	https://classroom.google.com/u/1/c/NTI5OTUzOTAxMTU4
12	Google Classroom Notes	21CV52- DESIGN AND DRAWING OF RCC STRUCTURES	Praveen Kumar K / Anandkumar B G	https://classroom.google.com/c/NjQ0NjU1MjAwMDc4
13	Google Classroom Notes	INTEGRATED WATERSHED	Gowtham Prasad M E	https://classroom.google.com/c/NjExNDE5OTg4NDM0?cjc=yyiqcl5

		MANAGEMENT - 18CV6C5		

- ***Collaborative learning techniques/Tools***: Tools like Google Workspace, Microsoft Office 365, or collaborative whiteboard apps facilitate group projects, peer review, and collaborative problem-solving, promoting teamwork and communication skills.

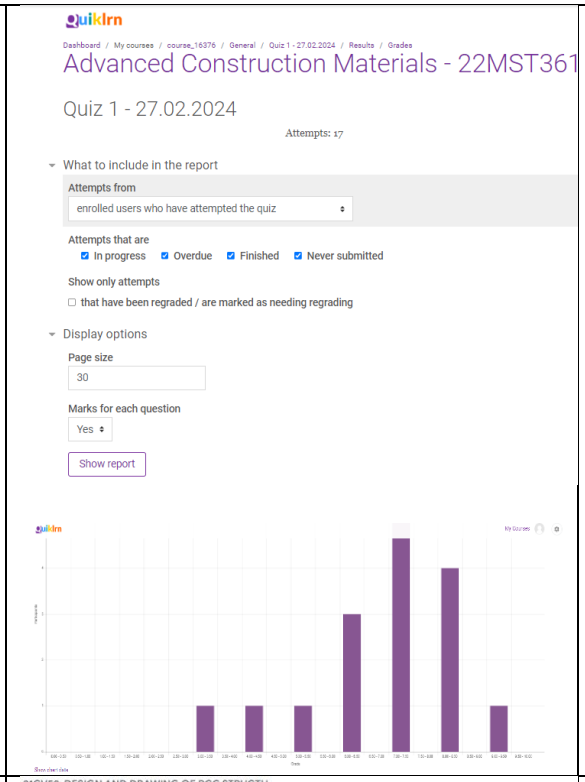
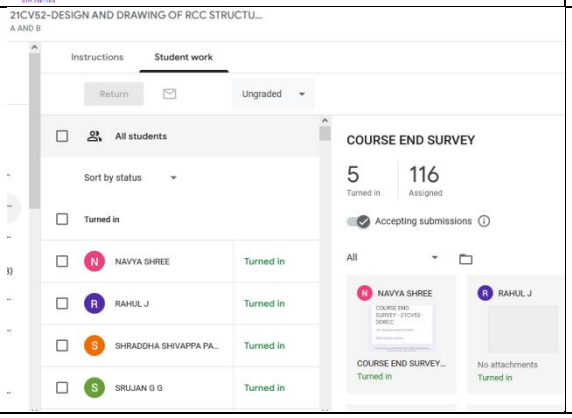
Sl.No	*Name of Collaborative learning techniques/Tools*	Name of the Course	Faculty Name	Photos of the Activity	Semester/Year
1	Collaborative Problem solving /Group discussion / Flipped class	CV123AT-Elements of Civil Engineering	Praveen Kumar K		II/1

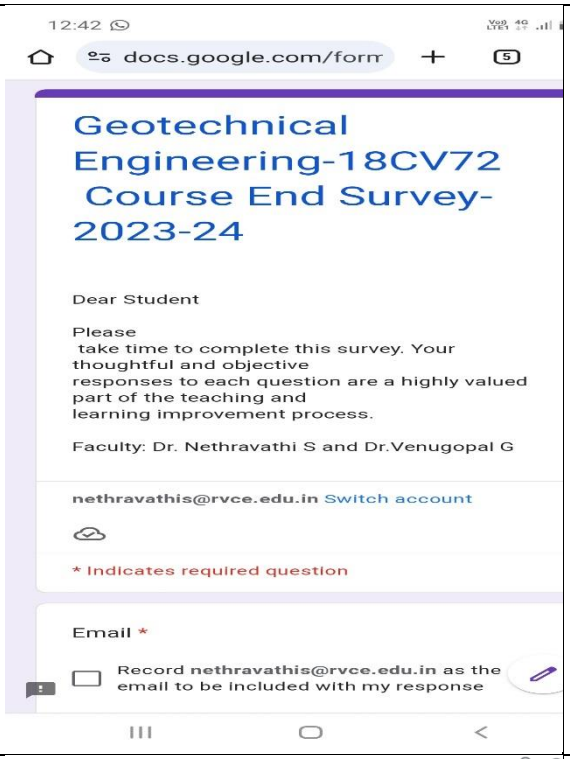
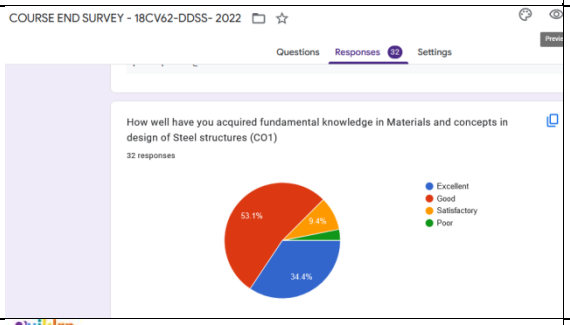
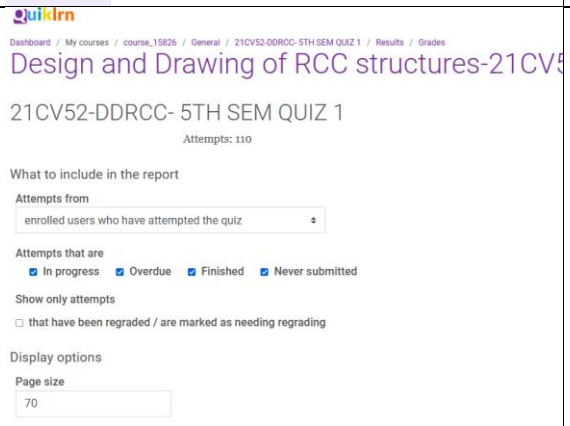
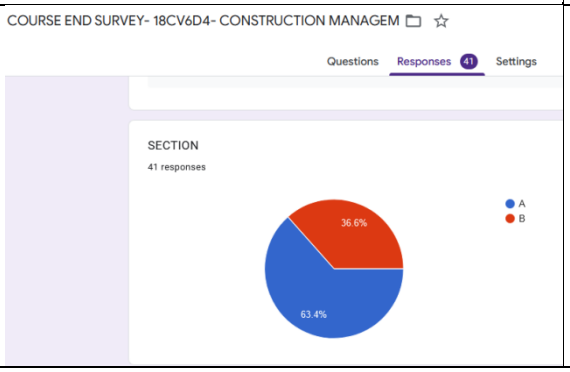
3. Evaluation with ICT Tools:

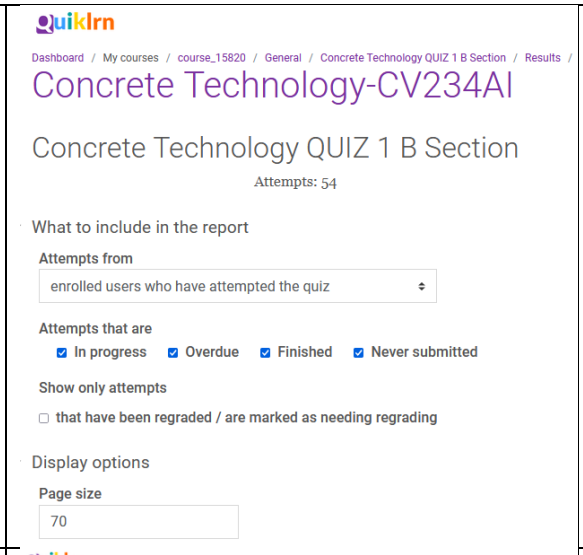
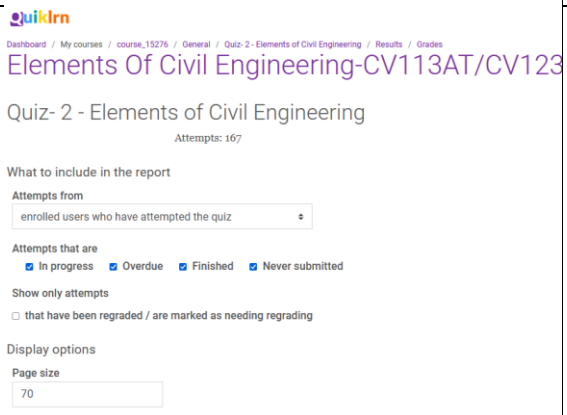
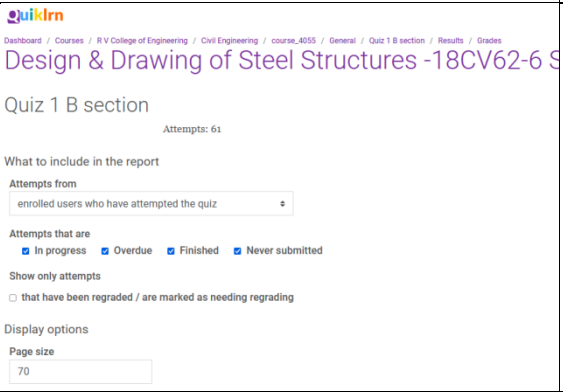
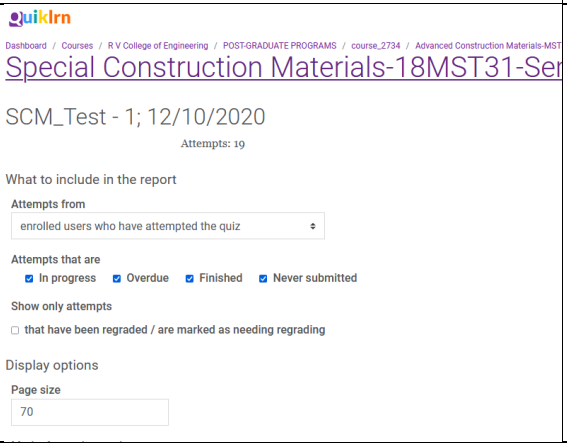
ICT tools offer innovative solutions for assessing student progress and providing timely feedback. Some methods of evaluation using ICT tools include:

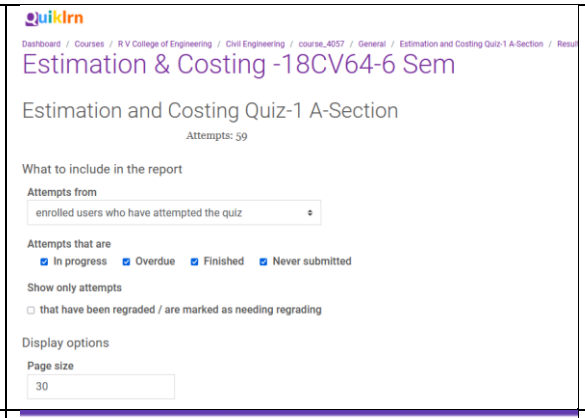
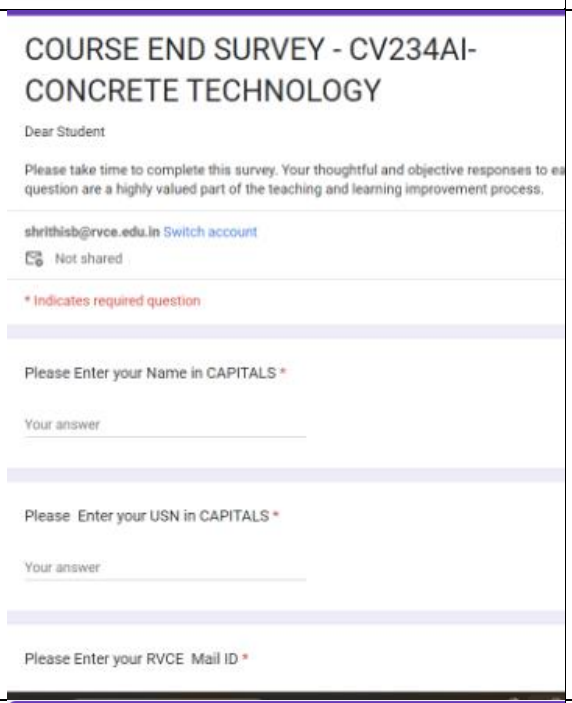
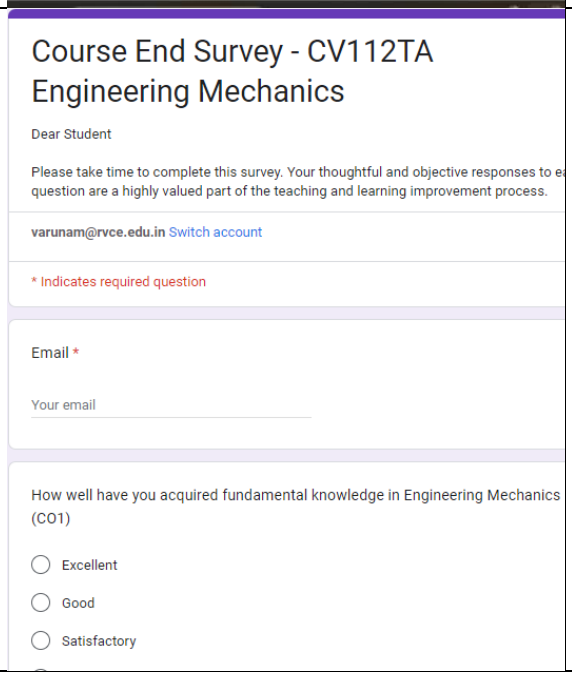
- ***Online Assessments:*** Platforms like Quiklrn, Kahoot, Quizizz, or Google Forms enable teachers to create and administer quizzes, tests, and surveys electronically, automating grading and providing instant feedback to students.

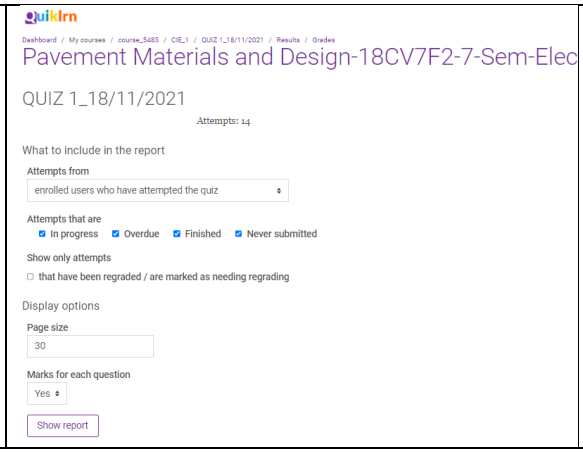
Sl.No	*Name of Online Assessment tool*	Name of the Course	Faculty Name	Type of the event assessment	Semester/Year
1	Exam.net	All courses	All Faculty	Conduction of CIE Tests during Covid 19 Phase I lockdown	

2	Quiklrn quiz	Advanced Construction Materials - 22MST361 T	Radhakrishna		III Sem, M Tech
3	Google Classroom Course End Survey	Design And Drawing Of Rcc Structures-21CV52	Anand Kumar B G / K Praveen Kumar		V Sem

4	Google Classroom Course End Survey	Geotechnical Engineering - 18CV72	Nethravathi S / Venugopal G		VII Sem
5	Google Classroom Course End Survey	Design & Drawing of Steel Structures – 18CV62	K Praveen Kumar		VI Sem
6	Quiklrn Quiz	Design And Drawing Of Rcc Structures-21CV52	K Praveen Kumar		V Sem
7	Google Classroom Course End Survey	Construction Management 18CV6D4	K Praveen Kumar		VI Sem

8	Quiklrn Quiz	Concrete Technology-CV234AI	K Praveen Kumar / Shrithi S Badami		III Sem
9	Quiklrn Quiz	Elements of Civil Engineering - CV113AT / CV123AT	Varuna M / K Praveen Kumar		I/II Sem
10	Quiklrn Quiz	Design & Drawing of Steel Structures – 18CV62	K Praveen Kumar		VI Sem
11	Quiklrn Test	Special Construction Materials – 18MST31	K Praveen Kumar		III Sem, M.Tech

12	Quiklrn Quiz	Estimation & Costing – 18CV64	Vageesh H P		VI Sem
13	Google Classroom Course End Survey	Concrete Technology – CV234AI	Shrithi S Badami / K Praveen Kumar		III Sem
14	Google Classroom Course End Survey	Engineering Mechanics - 22CV13	Madhavi K		I Sem

15	Quiklrn Quiz	Pavement Materials & Design 18CV7F2	Varuna M		VII Sem

- ***E-Portfolios:*** Digital portfolios allow students to showcase their work, reflections, and achievements over time, providing a holistic view of their learning journey and enabling self-assessment and peer feedback.

Sl.No	*Name of* E-Portfolios	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year
1	Quicklrn	Pavement Materials & Design	Varuna M	Quiz, uploading certifications, reports, Review evaluations, assignment presentations	VII / 4
2	Quicklrn	Engineering Mechanics	Madhavi K	Quiz, uploading certifications, reports, Review evaluations, assignment presentations	I / 1
3	Quicklrn	Concrete Technology	Shrithi S Badami / K Praveen Kumar	Quiz, uploading certifications, reports, Review evaluations,	III/ 2

				assignment presentations	
4	Quicklrn	Geotechnical Engineering	Nethravathi S / Venugopal G	Quiz, uploading certifications, reports, Review evaluations, assignment presentations	VII / 4
5	Quicklrn	Design & Drawing of Steel Structures	K Praveen Kumar	Quiz, uploading certifications, reports, Review evaluations, assignment presentations	VI / 3

- ***Learning Analytics:*** ICT tools collect and analyze data on student performance and engagement, allowing educators to identify trends, assess the effectiveness of instructional strategies, and tailor interventions to meet individual learning needs.

Sl.No	*Name of Learning Analytics*	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year
1	Python Programming	Structural Analysis	Vikas M	EL	III
2	IIT Pave Software	Highway Engineering	Durga Prashanth L	EL	V
3	IIT Pave Software	PMD	Varuna M	EL	VII
4	Research Proposal	Research Methodology	T Raghavendra	EL	II
5	VISSIM	Traffic Engineering	Sunil S	EL	VII

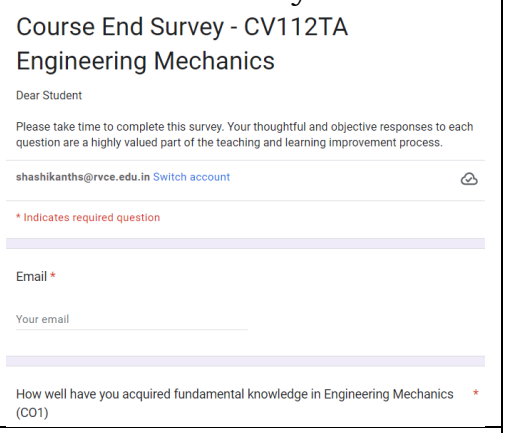
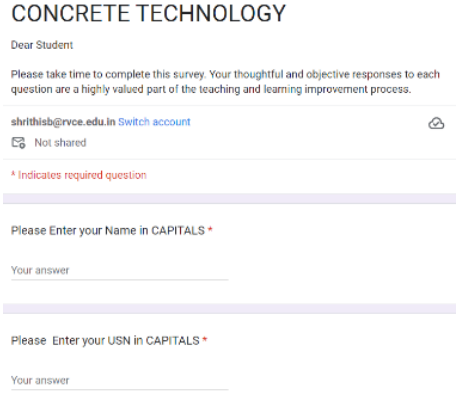
6	Python Programming	Elements of Civil Engineering	Shrithi S Badami	EL	I
7	QIGIS Software	GIS-T	Ramthilak	EL	I M.Tech
8	Matlab	Structural Dynamics	M V Renuka Devi	Lab component	II M.Tech
9	Matlab Python	Application of Matlab & Python for Pavement Engineering	Archana M R	Lab Course	I M.Tech
10	Civil 3D DGPS	DGPS & Autocad Civil 3D	Archana M R	Lab Course	II M.Tech
11	Tekla Tedds	Advanced Design of RCC Structures	Ravikiran S Wali	EL	VII
12	C Program	Elements of Civil Engineering & Mechanics	Ashwin Thammaiah K	EL	I
13	Staad Pro Software	Design and Drawing of RCC Structures	Praveen Kumar K	EL	V
14	MS Project Software	Construction Management	Praveen Kumar K	EL	VI
15	ETABS Software	Design and Drawing of RCC Structures	Praveen Kumar	EL	V
16	3D Sketchup/3D modeling with video	Design and Drawing of Steel Structures	Madhavi K	EL	III/VI
17	Q - GIS/ARC GIS Software	INTEGRATED WATERSHED MANAGEMENT (18CV6C5)	Gowtham Prasad M E	EL	VI
18	Python	PMS	M S Nagakumar	EL	III M.Tech

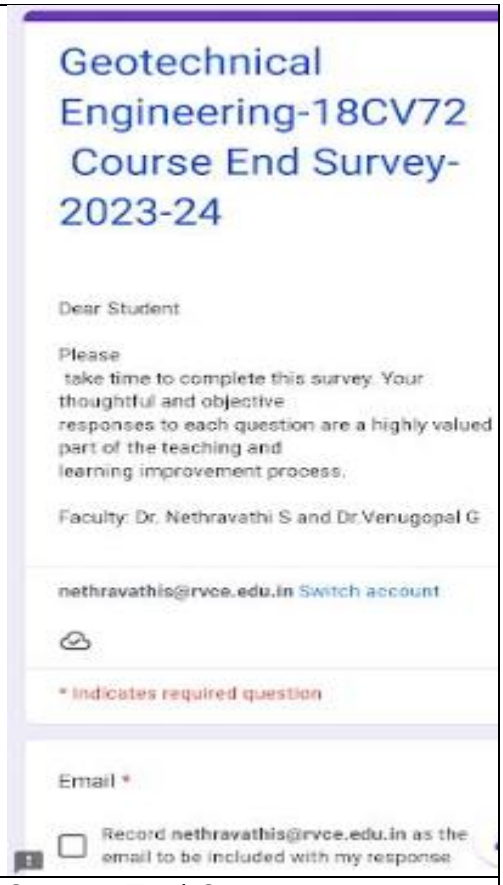
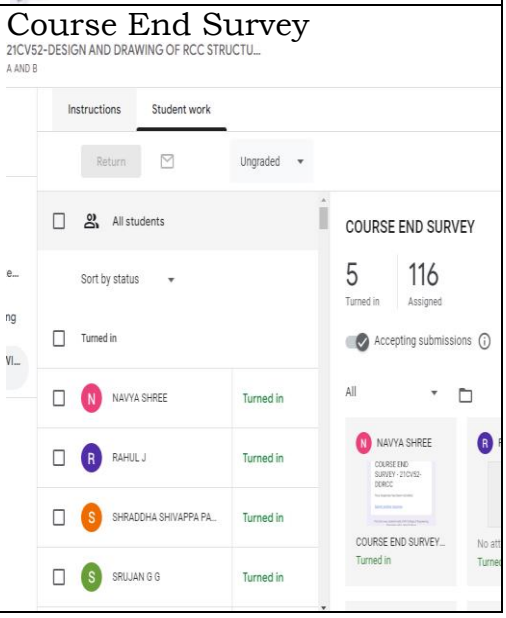
- ***Plagiarism Detection:*** With the proliferation of online resources, plagiarism has become a concern in academic settings. Plagiarism detection software like Turnitin or Grammarly can help educators identify and address instances of academic dishonesty.

Sl.No	*Name of Plagiarism Detection tool*	Name of the Course	Faculty Name	Name of the activity
1	DrillBit	Major Project	Radhakrishna	Project Work, Research paper
2	DrillBit	Major Project	B C Udayashankar	Project Work, Research paper
3	DrillBit	Major Project	M S Nagakumar	Project Work, Research paper
4	DrillBit	Major Project	M V Renuka Devi	Project Work, Research paper
5	DrillBit	Major Project	Ravindra R	Project Work, Research paper
6	DrillBit	Major Project	Anjaneyappa	Project Work, Research paper
7	DrillBit	Major Project	A R Vinod	Project Work, Research paper
8	DrillBit	Major Project	T Raghavendra	Project Work, Research paper
9	DrillBit	Major Project	Lokeshwari M	Project Work, Research paper
10	DrillBit	Major Project	Madhavi K	Project Work, Research paper
11	DrillBit	Major Project	Nethravathi S	Project Work, Research paper
12	DrillBit	Major Project	Archana M R	Project Work, Research paper
13	DrillBit	Major Project	Durga Prashanth L	Project Work, Research paper

14	DrillBit	Major Project	Anand Kumar B G	Project Work, Research paper
15	DrillBit	Major Project	Varuna M	Project Work, Research paper
16	DrillBit	Major Project	Sindhu D	Project Work, Research paper
17	DrillBit	Major Project	Sunil S	Project Work, Research paper
18	DrillBit	Major Project	K. Praveen Kumar	Project Work, Research paper
19	DrillBit	Major Project	K Gajalakshmi	Project Work, Research paper
20	DrillBit	Major Project	Somanath M Basutkar	Project Work, Research paper
21	DrillBit	Major Project	Venugopal G	Project Work, Research paper
22	DrillBit	Major Project	Ramthilak`	Project Work, Research paper
23	DrillBit	Major Project	Vikas M	Project Work, Research paper
24	DrillBit	Major Project	Vageesh H P	Project Work, Research paper
25	DrillBit	Major Project	Ravikiran S Wali	Project Work, Research paper
26	DrillBit	Major Project	Shrithi S Badami	Project Work, Research paper
27	DrillBit	Major Project	Shashi Kiran C R	Project Work, Research paper
28	DrillBit	Major Project	Gowtham Prasad M E	Project Work, Research paper
29	DrillBit	Major Project	Ashwin Thammaiah K	Project Work, Research paper

Feedback and Communication Tools: ICT tools facilitate timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts, and ongoing dialogue to support learning and growth.

Sl.No	*Name of* Feedback and Communication Tools	Name of the Course	Faculty Name	Name of the activity
1	Google Classroom	Construction Management	K Praveen Kumar	Course End Survey
2	Google Classroom	Engineering Mechanics	Madhavi K	Course End Survey  Course End Survey - CV112TA Engineering Mechanics Dear Student Please take time to complete this survey. Your thoughtful and objective responses to each question are a highly valued part of the teaching and learning improvement process. shashikanths@rvce.edu.in Switch account * Indicates required question Email * Your email How well have you acquired fundamental knowledge in Engineering Mechanics (CO1) *
3	Google Classroom	Concrete Technology	Shrithi S Badami / K Praveen Kumar	Course End Survey  COURSE END SURVEY - CV234AI-CONCRETE TECHNOLOGY Dear Student Please take time to complete this survey. Your thoughtful and objective responses to each question are a highly valued part of the teaching and learning improvement process. shrithisb@rvce.edu.in Switch account Not shared * Indicates required question Please Enter your Name in CAPITALS * Your answer Please Enter your USN in CAPITALS * Your answer
4	Google Classroom	Geotechnical Engineering	Nethravathi S / Venugopal G	Course End Survey

				
5	Google Classroom	Design And Drawing Of Rcc Structures	Anand Kumar B G / K Praveen Kumar	

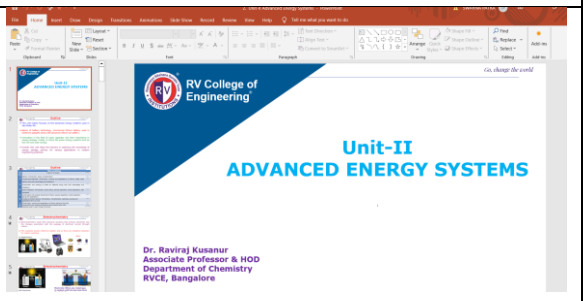
DEPARTMENT of CHEMISTRY

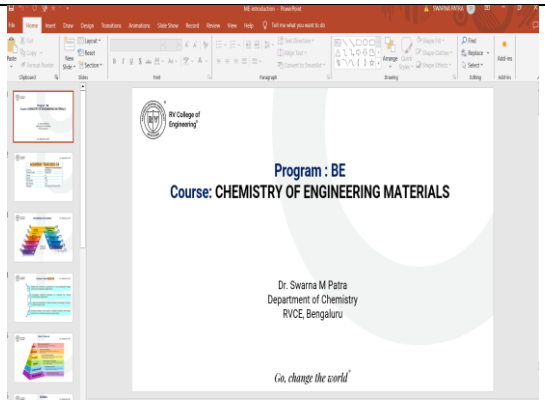
In the contemporary educational landscape, Information and Communication Technology (ICT) tools have revolutionized the way teaching, learning, and evaluation are conducted. This report aims to explore the various ways in which ICT tools are utilized to enhance these crucial aspects of education.

1. Teaching with ICT Tools:

In today's rapidly evolving technological landscape, the integration of Information and Communication Technology (ICT) tools has become indispensable in various fields, including the field of chemistry. Particularly within the context of engineering education, the utilization of ICT tools holds immense potential for enhancing learning experiences, fostering deeper understanding, and preparing students for real-world applications. In the Chemistry Department, the incorporation of ICT tools offers a multitude of benefits, ranging from facilitating virtual experiments and simulations to enabling interactive learning modules and collaborative research platforms. By leveraging ICT tools effectively, students can access a diverse array of resources, engage in hands-on experimentation in virtual environments, and develop critical skills in data analysis, problem-solving, and scientific communication. This preamble sets the stage for exploring the myriad ways in which ICT tools can be harnessed to enrich the educational journey of engineering students within the Chemistry Department, ultimately equipping them with the knowledge and skills necessary to excel in their future careers

- ***Presentation Software:*** Platforms like Microsoft PowerPoint, Google Slides, enable teachers to create visually appealing presentations to deliver content in an organized and engaging manner.

Sl.No	Name of the Faculty	*Presentation Software used*	Sample Screen shot of any one course
1	Dr Raviraj Kusanur	Microsoft PowerPoint, Google Slides	
2	Dr Mahesh R	Microsoft PowerPoint, Google Slides	
3	Dr Manjunatha C	Microsoft PowerPoint, Google Slides	
4	Dr Divakara C	Microsoft PowerPoint, Google Slides	

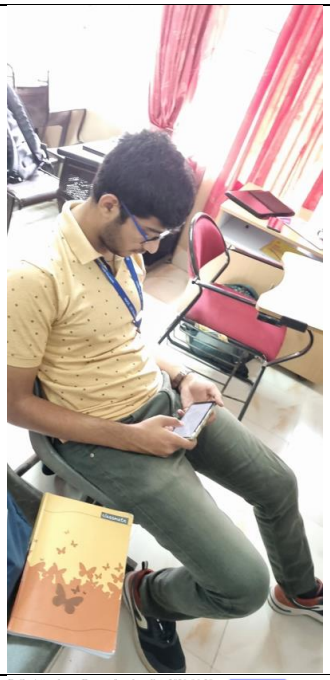
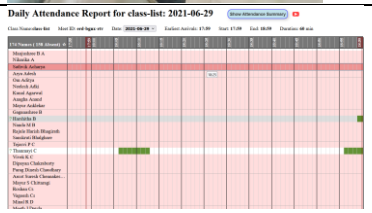
5	Dr Sham Aan M P	Microsoft PowerPoint, Google Slides	
6	Dr Sridharan M	Microsoft PowerPoint, Google Slides	
7	Dr Swarna M Patra	Microsoft PowerPoint, Google Slides	
8	Dr Vishnumurthy K A	Microsoft PowerPoint, Google Slides	
9	Dr Girish K S	Microsoft PowerPoint, Google Slides	
10	Dr Swetha S M	Microsoft PowerPoint, Google Slides	

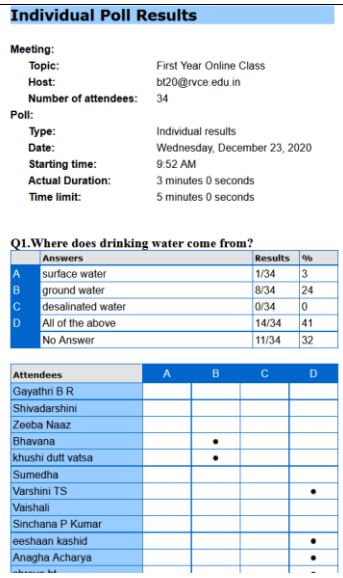
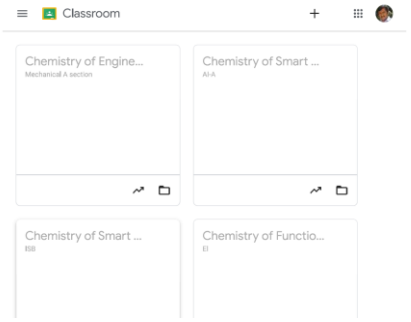
- ***Interactive Whiteboards:*** Interactive whiteboards facilitate dynamic teaching by allowing educators to display multimedia content, annotate, and interact with digital materials in real-time, fostering active participation among students.

Sl.No	No of Interactive Boards in the Department	Specifications of the whiteboard	Image of the whiteboard (smart board)	List the applications, faculties have explored (Like for annotation, real time interaction etc..)
1.	Common course taught in respective program departments			Annotation, presentation, File saving & transfer, Image editing

- **Video Conferencing:** Tools such as Zoom, Microsoft Teams, or Google Meet have become indispensable for remote or hybrid learning scenarios, enabling live virtual classes, guest lectures, and collaborative projects.

Sl.No	Video Conference tool name	Purpose of the usage	Faculty Name	Photos of the event
1	Zoom, CiscoWebex, Microsoft Teams, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Raviraj Kusanur	
2	Zoom, CiscoWebex, Microsoft Teams, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Mahesh R	
3	Zoom, CiscoWebex, Microsoft Teams, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Manjunatha C	

4	Zoom, CiscoWebex, Microsoft Teams, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Divakara C	
5	Zoom, CiscoWebex, Microsoft Teams, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Sham Aan M P	
6	Zoom, CiscoWebex, Microsoft Teams, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Sridharan M	

7	Zoom, CiscoWebex, Microsoft Teams, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Swarna M Patra	
8	Zoom, CiscoWebex, Microsoft Teams, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Vishnumurthy K A	
9	Zoom, Google meet	Online class, Online course, Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc	Dr Girish K S	
10	Zoom, Google meet	Online class, Online course,	Dr Swetha S M	

Individual Poll Results

Meeting:

Topic:	First Year Online Class
Host:	bt20@rvce.edu.in
Number of attendees:	34

Poll:

Type:	Individual results
Date:	Wednesday, December 23, 2020
Starting time:	9:52 AM
Actual Duration:	3 minutes 0 seconds
Time limit:	5 minutes 0 seconds

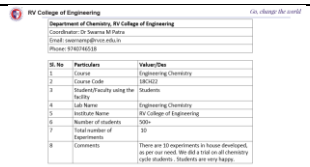
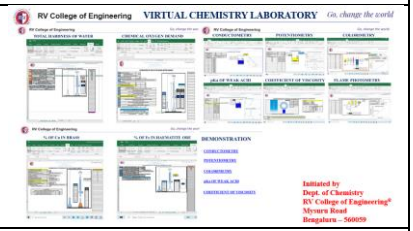
Q1.Where does drinking water come from?

	Answers	Results	%
A	surface water	1/34	3
B	ground water	8/34	24
C	desalinated water	0/34	0
D	All of the above	14/34	41
	No Answer	11/34	32

Attendees	A	B	C	D
Gayathri B R				
Shivadarshini				
Zeeba Naaz				
Bhavana		•		
khushi dutt vatsa		•		
Sumedha				
Varshini TS				•
Vaishali				
Sinchana P Kumar				
eeshaan kashid				•
Anagha Acharya				•

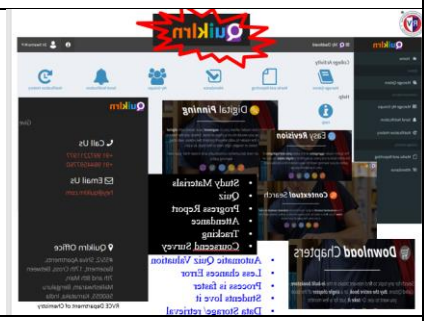
		Online conference, Meetings, Guest lectures, online quiz, course end survey, feedback etc		

- ***Simulations and Virtual Labs:*** ICT tools offer simulated environments for students to conduct experiments or explore concepts that may be difficult or dangerous to replicate in a physical setting, enhancing experiential learning.

Sl.No	*Name of Simulations and Virtual Labs*	Name of the Course	Faculty Name	Photos of the Activity
1	Virtual lab experiments designed by Dept of Chemistry, RVCE	Engineering Chemistry	Dr Raviraj Kusanur	
2			Dr Mahesh R	
3			Dr Manjunatha C	
4			Dr Divakara C	
5			Dr Sham Aan M P	
6			Dr Sridharan M	
7			Dr Swarna M Patra	
8			Dr Vishnumurthy K A	

- ***Educational Apps and Software:*** There is a plethora of educational apps and software tailored to different subjects and age groups, providing interactive lessons, quizzes, and games to reinforce learning objectives.

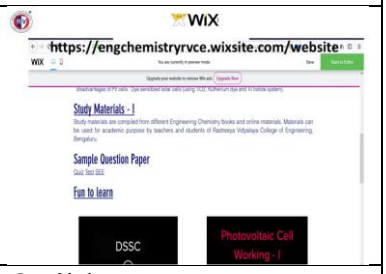
Sl.No	*Name of Education*	Name of the Course	Faculty Name	Photos of the Activity

	al Apps and Software			
1	Polls	Engineering Chemistry, Chemistry of Smart Materials and Devices, Chemistry of Functional Materials, Chemistry of Engineering materials, Engineering & Environmental Chemistry	Dr Raviraj Kusanur	
2	Quizzess		Dr Mahesh R	
3	Crossword		Dr Manjunatha C	
4	Jeopardy Labs		Dr Divakara C	
5	Quiz Whizzer		Dr Sham Aan M P	
6	Hot seat		Dr Sridharan M	
7	Plickers		Dr Swarna M Patra	
8	Marble verse		Dr Vishnumurthy K A	
9	Puzzeles		Dr Girish K S	
10	Virtual Pictionary		Dr Swetha S M	

2. Learning with ICT Tools:

ICT tools empower students to take ownership of their learning journey and access educational resources beyond the confines of the classroom. Some ways in which ICT tools facilitate learning include:

- ***Online Resources:*** The internet provides a vast repository of educational materials such as e-books, articles, videos, and tutorials, enabling students to supplement their learning and explore topics at their own pace.

Sl.No	*Type of online resource*	Name of the Course	Faculty Name	Online resource link
1	Wikispace	Engineering Chemistry	Dr Raviraj Kusanur	
2	Wixsite	Chemistry of Smart Materials and Devices	Dr Mahesh R	Quiklrn
3	Genomio	Chemistry of Functional Materials	Dr Manjunatha C	
4	You tube video	Chemistry of Engineering materials	Dr Divakara C	
5		Engineering & Environmental Chemistry	Dr Sham Aan M P	
6			Dr Sridharan M	
7			Dr Swarna M Patra	
8			Dr Vishnumurthy K A	
9			Dr Girish K S	
10			Dr Swetha S M	

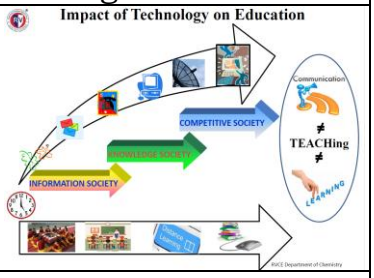
- ***E-Learning Platforms:*** Platforms like Quiklrn, google Sites, Moodle, Blackboard, youtube or Canvas offer a centralized hub for course

materials, assignments, discussions, and assessments, fostering a collaborative and structured learning environment.

Sl. No	*Type of E-Learning Platforms & Purpose*	Name of the Course	Faculty Name	*E-Learning Platform* link
1	Quiklrn	Engineering Chemistry	Dr Raviraj Kusanur	Online App
2	Google classroom	Chemistry of Smart Materials and Devices	Dr Mahesh R	https://classroom.google.com/c/NjY4MzYyMTAwOTcw
3	Wix site	Chemistry of Functional Materials	Dr Manjunatha C	https://engchemistryrvce.wixsite.com/website
4	Wikispace	Chemistry of Engineering materials	Dr Divakara C	
5	Canvas	Engineering & Environmental Chemistry	Dr Sham Aan M P	
6			Dr Sridharan M	
7	Genomio site		Dr Swarna M Patra	https://engchemistryrvce.gnomio.com/
8			Dr Vishnumurthy K A	
9			Dr Girish K S	

10			Dr Swetha S M	

- ***Adaptive Learning Systems:*** ICT tools leverage adaptive learning algorithms to personalize the learning experience based on each student's strengths, weaknesses, and learning pace, ensuring tailored instruction and optimal comprehension.

Sl.No	*Type of Adaptive Learning Systems*	Name of the Course	Faculty Name	*Outcome of ALS*
1	You tube video link	Engineering Chemistry	Dr Raviraj Kusanur	Enhancement of learning outcomes, improvement in scoring marks
2	Customized problem-solving session	Chemistry of Smart Materials and Devices	Dr Mahesh R	
3	Special classes	Chemistry of Functional Materials	Dr Manjunatha C	
4	Genomio sites	Chemistry of Engineering materials	Dr Divakara C	
5	Jeopardy labs-Game based learning	Engineering & Environmental Chemistry	Dr Sham Aan M P	
6			Dr Sridharan M	
7			Dr Swarna M Patra	
8			Dr Vishnumurthy K A	
9			Dr Girish K S	
10			Dr Swetha S M	

- ***Collaborative learning techniques/Tools***: Tools like Google Workspace, Microsoft Office 365, or collaborative whiteboard apps facilitate group

projects, peer review, and collaborative problem-solving, promoting teamwork and communication skills.

Sl. No	*Name of Collaborative learning techniques/ Tools*	Name of the Course	Faculty Name	Photos of the Activity	Semester/ Year
1	Quiklrn	Engineering Chemistry	Dr Raviraj Kusanur		2020-21
2	Google classroom/ google meet		Dr Mahesh R		2021-22
3	I scribe pad		Dr Manjunatha C		2022-23
4	Big blue buttons		Dr Divakara C		2023-24
5	Cisco Webex		Dr Sham Aan M P		
6	Zoom		Dr Sridharan M		
7	Microsoft teams		Dr Swarna M Patra		
8			Dr Vishnumurthy K A		

3. Evaluation with ICT Tools:

ICT tools offer innovative solutions for assessing student progress and providing timely feedback. Some methods of evaluation using ICT tools include:

- ***Online Assessments:*** Platforms like Quiklrn, Kahoot, Quizizz, or Google Forms enable teachers to create and administer quizzes, tests, and surveys electronically, automating grading and providing instant feedback to students.

Sl.No	*Name of Online*	Name of the Course	Faculty Name	Type of the event	Semester/Year

	Assessment tool			assessment	
1	Quiklrn, Google form Exam.net	Engineering Chemistry	Dr Raviraj Kusanur	Quiz, Online evaluation	2018-19
2		Chemistry of Smart Materials and Devices	Dr Mahesh R	Course end survey	2019-20
3		Chemistry of Functional Materials	Dr Manjunatha C	Faculty feed back	2020-21
4		Chemistry of Engineering materials	Dr Divakara C		2021-22
5		Engineering & Environmental Chemistry	Dr Sham Aan M P		2022-23
6			Dr Sridharan M		2023-24
7			Dr Swarna M Patra		
8			Dr Vishnumurthy K A		
9			Dr Girish K S		
10			Dr Swetha S M		

- ***E-Portfolios:*** Digital portfolios allow students to showcase their work, reflections, and achievements over time, providing a holistic view of their learning journey and enabling self-assessment and peer feedback.

Sl.No	*Name of* E-Portfolios	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year
1	Google class room, uploading content in LMS	Engineering Chemistry	Dr Raviraj Kusanur	Prsentation, Lab experiment demonstration video etc	2018-19

	like genomio , wix site, uploading youtube videos			Experiential learning work Filpped class assignments Virtual lab reports	
2		Chemistry of Smart Materials and Devices	Dr Mahesh R		2019-20
3		Chemistry of Functional Materials	Dr Manjunatha C		2020-21
4		Chemistry of Engineering materials	Dr Divakara C		2021-22
5		Engineering & Environmental Chemistry	Dr Sham Aan M P		2022-23
6			Dr Sridharan M		2023-24
7			Dr Swarna M Patra		
8			Dr Vishnumurthy K A		
9			Dr Girish K S		
10			Dr Swetha S M		

- ***Learning Analytics:*** ICT tools collect and analyze data on student performance and engagement, allowing educators to identify trends, assess the effectiveness of instructional strategies, and tailor interventions to meet individual learning needs.

Sl.No	*Name of Learning Analytics*	Name of the Course	Faculty Name	Type of the work assessment	Semester/Year

1	Google Sheet with automated programming. Customized to different schemes as per the syllabus	Engineering Chemistry	Dr Raviraj Kusanur	CIE finalization	2018-19
2		Chemistry of Smart Materials and Devices	Dr Mahesh R	CO attainment	2019-20
3		Chemistry of Functional Materials	Dr Manjunatha C	CO-PO mapping	2020-21
4		Chemistry of Engineering materials	Dr Divakara C	Identification of slow learners	2021-22
5		Engineering & Environmental Chemistry	Dr Sham Aan M P	NSAR-NSSR finalization	2022-23
6			Dr Sridharan M		2023-24
7			Dr Swarna M Patra		
8			Dr Vishnumurthy K A		
9			Dr Girish K S		
10			Dr Swetha S M		

- ***Plagiarism Detection:*** With the proliferation of online resources, plagiarism has become a concern in academic settings. Plagiarism detection software like Turnitin or Grammarly can help educators identify and address instances of academic dishonesty.

Sl.No	*Name of Plagiarism Detection tool*	Name of the Course	Faculty Name	Name of the activity
1	DrillBit	Engineering Chemistry	Dr Raviraj Kusanur	Case study reports
2	Turnitin	Chemistry of Smart	Dr Mahesh R	Patent filing

		Materials and Devices		
3		Chemistry of Functional Materials	Dr Manjunatha C	EL report check
4		Chemistry of Engineering materials	Dr Divakara C	Paper publication
5		Engineering & Environmental Chemistry	Dr Sham Aan M P	
6			Dr Sridharan M	
7			Dr Swarna M Patra	
8			Dr Vishnumurthy K A	
9			Dr Girish K S	
10			Dr Swetha S M	

Feedback and Communication Tools: ICT tools facilitate timely communication between teachers and students, allowing for personalized feedback on assignments, clarification of doubts, and ongoing dialogue to support learning and growth.

Sl.No	*Name of* Feedback and Communication Tools	Name of the Course	Faculty Name	Name of the activity
1	Google form, Quiklrn	Engineering Chemistry	Dr Raviraj Kusanur	Course end survey, faculty feedback
2		Chemistry of Smart Materials and Devices	Dr Mahesh R	
3		Chemistry of Functional Materials	Dr Manjunatha C	
4		Chemistry of Engineering materials	Dr Divakara C	
5		Engineering & Environmental Chemistry	Dr Sham Aan M P	

6			Dr Sridharan M	
7			Dr Swarna M Patra	
8			Dr Vishnumurthy K A	
9			Dr Girish K S	
10			Dr Swetha S M	