



NAAC CRITERIA 1.1.2

1.1.2 The programmes offered by the institution focus on employability/ entrepreneurship/ skill development and their course syllabi are adequately revised to incorporate contemporary requirements

RVCE is committed to providing the students comprehensive higher education oriented at employability, entrepreneurship and research skills. It ensures that students are well-equipped to meet the demands of the contemporary job market. At RVCE the programmes are systematically designed to prepare industry ready engineers by providing strong foundation knowledge in the respective field of specialisation along with interdisciplinary and multidisciplinary knowledge and skills. The curricula are regularly revised based on the feedback from the stakeholders and technological advances. This ensures that students graduate with up-to-date domain-specific knowledge coupled with an innate ability to adapt to evolving professional challenges. Ability enhancement courses including Business English, Yoga, Kannada language, UHV, sports, photography and music are included in the curricula.

Entrepreneurship is an important component of the programme curricula at RVCE which is reflected in mandatory courses such as Management and Professional Ethics and IPR integrated into the curricula. The students explore their innate potential, develop business plans and learn from successful entrepreneurs through programmes of E-cell, such as e-summit, a regular activity at RVCE. RVCE provides resources and support for the aspiring entrepreneurs through ideation, proof of concept and prototype development at the specialised incubation laboratories of the Institution. RVCE collaborates with Industry-partners to identify and incorporate industry-specific skill-enhancement modules into the syllabi to make the students Industry-worthy and domain-relevant. Employability, entrepreneurship and skills are developed in the students through experiential learning, industry visits, partial delivery by industry experts, minor and major projects in industries, interdisciplinary projects, innovative clubs, internships at CoE/CoC or outside and Hackathon.

In cognisance of the need to maintain relevancy of the curricula, RVCE vibrantly interacts with industry professionals, academic experts, research networks, collaborative engagements through MoU. RVCE has more than 100 active MoU with industries, reputed institutions and research organisations for collaborative activities like internships, consultancy, training, sabbatical, industry visits and projects. The programme faculty discuss the inputs and suggestions in detail and suggest suitable changes and improvements to the appropriate Board of Studies. The faculty participate in professional development activities; attend conferences, and workshops to keep abreast of the nuances in their domains.

RVCE values feedback from the students, alumni, industry, and employers. Periodic feedbacks are taken to assess the effectiveness of the programs and gather input for further improvement. It enables incorporation of the Industry needs and their integration into the respective curriculum, towards relevant and comprehensive education. Many advanced courses such as Artificial Intelligence, Data Science, Network security, Industrial Internet of Things, Embedded Systems and Product Life Cycle Management are included through specific requests from the stakeholders.

Contemporary Requirement

RVCE has collaboration with international universities in the areas of Robotics and Automation, Smart Manufacturing, High performance clustering cloud and Quantum computing.

The programmes offered by RV College of Engineering focus on employability, entrepreneurship and skill development. The course curriculum is adequately revised to incorporate contemporary requirements. The course curriculum is prepared in consultation with all the stakeholders like students, alumni, Faculty and industry experts. The syllabus framing goes through multiple revisions to keep it industry relevant. All the core and elective courses are designed to focus on employability of the student. Some of them which are more focussed towards employability are listed below:

2018 scheme
18HS68 - Professional Practice-II (Employability Skills and Professional Development of Engineers)
Course Outcomes: After completing the course, the students will be able to CO1: Inculcate employability skill to suit the industry requirement. CO2: Analyze problems using quantitative and reasoning skills CO3: Exhibit verbal aptitude skills with appropriate comprehension and application. CO4: Focus on Personal Strengths and Competent to face interviews and answer

2021 scheme
21CSI310 - SUMMER INTERNSHIP-I
Course Outcomes: After completing the course, the students will be able to CO1: Develop communication, interpersonal, critical skills, work habits and attitudes necessary for employment. CO2: Assess interests, abilities in their field of study, integrate theory and practice and explore career opportunities prior to graduation. CO3: Explore and use state of art modern engineering tools to solve societal problems with affinity towards the environment and involve in professional ethical practice. CO4: Compile, document and communicate effectively on the internship activities with the engineering community
21CSI57 - SUMMER INTERNSHIP-II
Course Outcomes: After completing the course, the students will be able to:- CO1 Develop interpersonal, critical skills, work habits and attitudes necessary for employment. CO2 Assess interests, abilities in their field of study, integrate theory and practice and explore career opportunities prior to graduation. CO3 Explore and use state of art modern engineering tools to solve the societal problems with affinity towards environment and involve in ethical professional practice. CO4 Compile, document and communicate effectively on the internship activities with the engineering community

Skill development is part of the curriculum, other than technical knowledge, some courses are more focussed towards skill development of students. Some of them are listed below:

2018 scheme	2021 scheme	2022 scheme
18HS49 - Professional Practice-I Communication Skills	21CSI310 - Summer Internship-I	ME111DL - IDEA LAB (Idea Development, Evaluation & Application)
18CS47 - Design Thinking lab	21CSI57 - Summer Internship-II	21HSAE46A/B/C/D/E Ability Enhancement course

2018 scheme	2021 scheme	2022 scheme
18HS38-Vyavaharika Kannada / Aadalitha Kannada	21HSU48 - Universal Human Values and Professional Ethics	National Service Scheme (NSS) National Cadet Corps (NCC) Physical Education Music / Dance / Lights Camera Drama Art / Photography
	Skill Lab  FOR SECOND YEAR	

Courses focussed on developing entrepreneurship skills in students are:

2018 scheme	2021 scheme
18HSI51 - Intellectual Property Rights and Entrepreneurship 18G6E17 - Foundational Course on Entrepreneurship 18G7H16- Advanced Course In Entrepreneurship	21HS51A - Intellectual Property Rights & Entrepreneurship

RVCE has Entrepreneurship cell which conducts many activities throughout the year.



Details are provided in the link: [E-Cell RVCE \(ecellrvce.in\)](http://ecellrvce.in)

NAAC CRITERIA 1.1.1

Curricula developed and implemented have relevance to the local, regional, national, and global developmental needs, which is reflected in the Programme outcomes (POs) and Course Outcomes (COs) of the Programmes offered by the institution

Sl. No	Program	Page No.
2018 scheme UG Program		
1.	I Year Courses	5
2.	Aerospace Engineering	6
3.	Bio Technology	8
4.	Chemical Engineering	9
5.	Computer Science and Engineering	11
6.	Electronics And Communication Engineering	13
7.	Civil Engineering	15
8.	Electronics And Instrumentation Engineering	17



Sl. No	Program	Page No.
9.	Electrical And Electronics Engineering	18
10.	Electronics and Telecommunication Engg	19
11.	Industrial Engineering and Management	21
12.	Information Science and Engineering	23
13.	Mechanical Engineering	26
2018 Scheme MCA		
14.	Master of Computer Applications	27
2018 Scheme MTech Programs		
15.	Machine Design	28
16.	Product Design	28
17.	Computer Integrated Manufacturing	29
18.	Information Technology	29
19.	Software Engineering	30
20.	Power Electronics	32
21.	Structural Engineering	32
22.	VLSI And Embedded Design	33
23.	Communication Systems	34
24.	Computer Science and Engineering	35
25.	Computer Network Engineering	36
26.	Biotechnology	36
2021 Scheme UG Program		
27.	I Year Courses	38
28.	Aerospace Engineering	38
29.	Bio Technology	40
30.	Chemical Engineering	41
31.	Computer Science and Engineering	42
32.	Electronics And Communication Engineering	43
33.	Civil Engineering	44
34.	Electronics And Instrumentation Engineering	44
35.	Electrical And Electronics Engineering	46
36.	Electronics and Telecommunication Engg	46
37.	Industrial Engineering and Management	47
38.	Information Science and Engineering	48
39.	Mechanical Engineering	49
2020 Scheme MCA		
40.	Master of Computer Applications	50
2022 Scheme (UG Program)		
41.	I Year Courses	51
42.	Aerospace Engineering	51
43.	Bio Technology	52
44.	Chemical Engineering	52
45.	Electronics And Instrumentation Engineering	53
46.	Electrical And Electronics Engineering	53

Sl. No	Program	Page No.
47.	Information Science and Engineering	54
2022 Scheme MCA		
48.	Master of Computer Applications	55
2022 Scheme MTech Programs		
49.	Information Technology	56
50.	Software Engineering	57
51.	Power Electronics	58
52.	Structural Engineering	60
53.	VLSI And Embedded Design	61
54.	Communication Systems	62
55.	Computer Science and Engineering	63
56.	Computer Network Engineering	64

All the courses in the curriculum maps to one or more of Employability/Skill development/Entrepreneurship. Below is a mapping of each course of 2018, 2021 and 2022 scheme courses.

2018 Scheme

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
I Year Courses				
Link to the relevant document				
First Year 2018 Scheme Scheme & Syllabus 18 Dec 2020.pdf (rvce.edu.in)				
18MA11	Engineering Mathematics-I	Yes	Yes	Yes
18PH12	Engineering Physics	Yes	Yes	
18EE13	Elements of Electrical Engineering	Yes	Yes	
18CV14	Elements of Civil Engineering & Mechanics	Yes	Yes	
18EE15	Elements of Engineering Practices	Yes	Yes	
18ME16	Computer Aided Engineering Drawing	Yes	Yes	
18HS17	English Language Laboratory-1	Yes	Yes	Yes
18CH12	Engineering Chemistry	Yes	Yes	
18CS13	Programming in C	Yes	Yes	
18EC14	Elements of Electronics Engineering	Yes	Yes	
18ME15	Elements of Mechanical Engineering	Yes	Yes	
18HS16	English Language Laboratory-1	Yes	Yes	Yes
18MA21	Engineering Mathematics-II	Yes	Yes	
18PH22	Engineering Physics	Yes	Yes	
18EE23	Elements of Electrical Engineering	Yes	Yes	
18CV24	Elements of Civil Engineering	Yes	Yes	
18EE25	Elements of Engineering Practices	Yes	Yes	
18ME26	Computer Aided Engineering Drawing	Yes	Yes	
18HS27	English Language Laboratory- II	Yes	Yes	Yes
18CH22	Engineering Chemistry	Yes	Yes	
18CS23	Programming in C	Yes	Yes	

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18EC24	Elements of Electronics Engineering	Yes	Yes	
18ME25	Elements of Mechanical Engineering	Yes	Yes	
18HS26	English Language Laboratory-II	Yes	Yes	Yes
Aerospace Engineering				
1ASIII IV SEM SYLLABUS1.pdf (rvce.edu.in)				
1. AS V VI Sem 2018 Syllabus1.pdf (rvce.edu.in)				
1. AS VII & VIII 2018 SYLLABUS.pdf (rvce.edu.in)				
18MA31C*	Engineering Mathematics - III	Yes	Yes	
18ME32**	Engineering Materials	Yes		
	(Common to ME, IM & AS)			
18AS33	Introduction to Aerospace Engineering	Yes		
18AS34	Thermodynamics	Yes		
18AS35	Mechanics of Fluids	Yes		
18AS36	Structural Mechanics	Yes		
18DMA37***	Bridge Course Mathematics	Yes	Yes	
18HS38#	Kannada Course	Yes	Yes	Yes
18MA41C*	Engineering Mathematics-IV	Yes	Yes	
18BT42A**	Environmental Technology			
18AS43	Aerodynamics	Yes	Yes	Yes
18AS44	Aerospace Structures	Yes	Yes	Yes
18AS45	Electronics & Communication Systems	Yes	Yes	Yes
18AS46	Aerospace Manufacturing Technology	Yes		Yes
18AS47	Design Thinking lab	Yes	Yes	Yes
18DCS48***	Bridge Course: C Programming	Yes		
18HS49	Professional Practice-I	Yes	Yes	Yes
	Communication Skills			
18HEM51	Introduction to Management and Economics	Yes		Yes
18AS52	Aerospace Propulsion I	Yes	Yes	Yes
18AS53	Gas Dynamics	Yes	Yes	Yes
18AS54	Avionics	Yes		
18AS55	Finite Element Methods	Yes	Yes	Yes
18XX5AX	Professional Elective A (PE)**	Yes		
	(MOOC Courses)			
18G5BXX	Global Elective B (GE)*	Yes		
18AS5A1	Introduction to Aircraft Design	Yes		
18AS5A2	Introduction to Composites	Yes		
18AS5A3	Automation in Manufacturing	Yes	Yes	Yes
18AS5A4	Scientific Computing Using Matlab	Yes	Yes	Yes
18OC5A5	The Joy of Computing Using Python	Yes	Yes	Yes
18G5BXX	Fundamentals of Aerospace Engineering	Yes		
18HSI61	Intellectual Property Rights and Entrepreneurship	Yes		Yes



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18AS62	Control Engineering	Yes	Yes	Yes
18AS63	Aerospace Propulsion II	Yes	Yes	Yes
	(Theory & Practice)			
18AS64	Minor Project**	Yes	Yes	Yes
18CS6C1	Internet of Things	Yes	Yes	Yes
18AS6C2	Computational Fluid Dynamics	Yes	Yes	Yes
18AS6C3	Cryogenics	Yes		
18AS6C4	Aerospace materials	Yes		Yes
18AS6C5	Advanced Manufacturing Technology	Yes		Yes
18CS6D1	Machine Learning	Yes	Yes	Yes
18AS6D2	Combustion & Heat Transfer	Yes		
18AS6D3	Experimental Stress Analysis	Yes		
18AS6D4	Spacecraft Systems	Yes	Yes	Yes
18AS6D5	Fundamentals of Computer Networking	Yes		
18GE6XX	Aircraft Systems	Yes	Yes	Yes
18HS71	Constitution of India & Professional ethics			
18AS72	Aircraft Performance and Stability	Yes		
18AS73	Vibration Engineering (Theory & Practice)	Yes	Yes	Yes
18AS74	Internship	Yes	Yes	Yes
18AS75	Aircraft Systems and Instrumentation	Yes		
	(Theory & Practice)			
18AS7F1	Fatigue & Fracture Mechanics	Yes		
18AS7F2	Operations Research	Yes		
18AS7F3	Space Dynamics	Yes	Yes	Yes
18AS7F4	Optical Fibre Communication	Yes		
18AS7G1	Hypersonic Aerodynamics	Yes		
18AS7G2	Theory of Aeroelasticity	Yes	Yes	Yes
18AS7G3	Helicopter Dynamics	Yes		
18AS7G4	Aircraft Maintenance, Repair & Overhaul	Yes	Yes	
18AS7G5	Advanced Avionics	Yes		
18GH7XX	Unmanned Air Vehicles	Yes	Yes	Yes
18ASP81	Major Project	Yes	Yes	Yes
Bio Technology				
2. BT III IV SEM SYLLABUS1.pdf (rvce.edu.in)				
5th & 6th Sem 0.pdf (rvce.edu.in)				
2. BT VII & VIII 2018 SYLLABUS.pdf (rvce.edu.in)				
18MA31C	Engineering Mathematics-III		Yes	
18BT32A	Biology for Engineers			Yes
18BT33	Concepts in Biotechnology		Yes	
18BT34	Basics of Computer Applications		Yes	
18CH35	Process Calculations		Yes	
18BT36	Biochemistry		Yes	



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18DMA37	Bridge Course: Mathematics		Yes	Yes
18HS38	Kannada Course	Yes		
18MA41	Biostatistics	Yes	Yes	
18BT42A	Environmental Technology	Yes		
18BT43	Unit Operations		Yes	Yes
18BT44	Bioinformatics		Yes	Yes
18CH45	Thermodynamics (common course for Biotechnology and Chemical)	Yes		
18BT46	Molecular Biology		Yes	
18BT47	Design Thinking lab	Yes	Yes	Yes
18DCS48	Bridge Course: C Programming	Yes		
18HS49	Professional Practice-I Communication Skills	Yes	Yes	Yes
18HSI51	Intellectual Property Rights & Entrepreneurship			Yes
18BT52	Biophysics and Instrumentation	Yes	Yes	
18BT53	Genetic Engineering and Applications (Theory & Practice)	Yes	Yes	
18CH54	Process Dynamics and Control (Common to BT & CH)		Yes	Yes
18BT55	Reaction Engineering		Yes	Yes
18BT5AX	Elective A (PE)		Yes	Yes
18G5BXX	Elective B (OE)*		Yes	
18HEM61	Introduction to Management and Economics***	Yes		
18BT62	Microbial Biotechnology		Yes	
18BT63	Plant and Animal Biotechnology (Theory & Practice)		Yes	
18BT64	Minor Project**	Yes	Yes	Yes
18BT6C1	Internet of Things			Yes
18BT6C2	Pharmaceutical Biotechnology			Yes
18BT6C3	Agriculture Biotechnology			Yes
18BT6C4	Plant Utilities and Biosafety in India			Yes
18BT6C5	Systems Biology			Yes
18CS6D1	Machine Learning			Yes
18BT6D2	Biomedical Instrumentation		Yes	
18BT6D3	Food & Dairy Biotechnology			Yes
18BT6D4	Fermentation Technology		Yes	Yes
18BT6D5	Programming in Biotechnology	Yes		
18G6EXX	Elective E (OE)*	Yes		
18HSE68	Professional Practice-II (Employability Skills and Professional Development of Engineers)	Yes	Yes	
18HS71	Constitution of India and Professional Ethics	Yes		
18BT72	Downstream Process and Product Recovery (Theory and Practice)	Yes	Yes	Yes

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18BT73	Genomics, Proteomics and Nanotechnology	Yes	Yes	Yes
18BT74	Internship / Course			Yes
18BT7F1	Nanobiotechnology			Yes
18BT7F2	Sustainable and Precision Agriculture		Yes	
18BT7F3	Equipment Design & Drawing		Yes	Yes
18BT7F4	Artificial Intelligence		Yes	Yes
18BT7G1	Forensic Sciences			Yes
18BT7G2	Metabolites and Bioprospecting		Yes	
18BT7G3	Alternative Energy		Yes	
18BT7G4	Next Generation Sequencing Informatics		Yes	
18G7HXX	Elective H (OE)*		Yes	
18BTP81	Major Project	Yes	Yes	Yes
Chemical Engineering				
4. CH III IV SEM SYLLABUS1 0.pdf (rvce.edu.in)				
3. CH V VI Sem 2018 Syllabus1.pdf (rvce.edu.in)				
3. CH VII & VIII 2018 SYLLABUS.pdf (rvce.edu.in)				
18MA31C*	Engineering Mathematics - III	Yes		
18ME32**	Engineering Materials	Yes	Yes	
18CH33	Technical Chemistry	Yes		
18CH34	Momentum Transfer	Yes		
18CH35	Process Calculations	Yes		
	(Common to CH & BT)			
18CH36	Chemical Plant Utilities	Yes		
18DMA37***	Bridge Course: Mathematics	Yes		
18HS38 #	Kannada Course			
18MA41C*	Engineering Mathematics-IV	Yes		
18BT42A**	Environmental Technology			
18CH43	Process Heat Transfer	Yes		
18CH44	Particulate Technology	Yes		
18CH45	Thermodynamics	Yes		
	(Common to CH & BT)			
18CH46	Chemical Technology	Yes		
18CH47	Design Thinking lab	Yes	Yes	Yes
18DCS48 ***	Bridge Course: C Programming	Yes		
18HS49	Professional Practice-I			Yes
	Communication Skills			
18HEM51	Introduction to Management & Economics			Yes
18CH52	Mass Transfer I	Yes		
18CH53	Chemical Reaction Engineering	Yes		
	(Theory & Practice)			
18CH54	Process Dynamics and Control	Yes		
	(Theory & Practice)			



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18CH55	Instrumental Methods of Analysis	Yes	Yes	
18CH5A1	Fluidization Engineering	Yes		
18CH5A2	Polymers: Concepts, Properties, Uses and Sustainability	Yes		
18CH5A3	Principles of Downstream Techniques in Bioprocess	Yes		
18CH5A4	Fundamentals of Micro and Nanofabrication	Yes		
18CS5A5	The Joy of Computing using Python	Yes		
18G5B03	Fuel Cell Technology	Yes		
18HSI61	Intellectual Property Rights and Entrepreneurship			Yes
18CH62	Chemical Equipment Design and Drawing (Theory & Practice)	Yes		
18CH63	Mass Transfer II (Theory & Practice)	Yes		
18CH64	Minor Project**	Yes	Yes	Yes
18CS6C1	Internet of Things	Yes		
18CH6C2	Industrial safety and Risk Management	Yes		
18CH6C3	Biochemical Engineering	Yes		
18CH6C4	Food Technology	Yes		
18CS6D1	Machine Learning	Yes		
18CH6D2	Biofuel Engineering	Yes		
18CH6D3	Heterogeneous Reaction Engineering	Yes		
18CH6D4	Chemical Process Integration	Yes		
18G6E03	Sustainable Technology	Yes		
18HS71	Constitution of India and Professional Ethics			Yes
18CH72	Transport Phenomena	Yes		
18CH73	Process Simulation and Modeling	Yes		
18CH74	Internship	Yes		
18CH7F1	Advanced polymer composites	Yes		
18CH7F2	Pilot plant studies and scale up methods	Yes	Yes	
18CH7F3	Nanotechnology			
18CH7F4	Energy conversion systems	Yes		
18CH7G1	Process optimization	Yes		
18CH7G2	Solar photovoltaic systems and Technology	Yes		
18CH7G3	Water conservation and management	Yes		
18CH7G4	Pollution control Engineering	Yes		
18G7H03	Industrial safety and risk management	Yes		
18CHP81	Major Project	Yes	Yes	Yes
Computer Science and Engineering				
5. CS III IV SEM SYLLABUS1.pdf (rvce.edu.in)				
4-CS-V VI-Sem 2018 Syllabus-FINAL.pdf (rvce.edu.in)				
4. CS VII & VIII 2018 SYLLABUS.pdf (rvce.edu.in)				



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18MA31A	Linear Algebra, Laplace Transform and Combinatorics	Yes		
18BT32A	Environmental Technology 4		Yes	
18IS33	Data Structures and its Applications	Yes		Yes
18CS34	Operating Systems	Yes		Yes
18CS35	Foundations Of Computer Systems Design	Yes		
18CS36	Discrete Mathematical Structures	Yes		
18DCS37	Bridge Course C Programming	Yes		
18HS38A	AADALITHA KANNADA		Yes	
18HS38V	VYAVAHARIKA KANNADA		Yes	
18MA41A	Graph Theory, Statistics and Probability Theory	Yes		
18BT42B	Biology for Engineers	Yes		
18CS43	Design And Analysis Of Algorithms	Yes		Yes
18CS44	Microcontrollers and Embedded Systems	Yes		
18CS45	Object Oriented Programming Using JAVA	Yes		Yes
18CS46	Computer Networks	Yes		Yes
18DMA48	Bridge Course Mathematics	Yes		
18HS49	Professional Practice-I Communication Skills		Yes	Yes
18HSI51	Intellectual Property Rights and Entrepreneurship		Yes	Yes
18CS52	Finite Automata Formal Languages	Yes		
18CS53	Database Design (Common to CS & IS)	Yes		Yes
18CS54	Network Programming and Security	Yes		Yes
18IS55	Software Engineering (Common to CS & IS)	Yes		Yes
18CS5AX	Group A: Professional Electives (MOOC Courses)	Yes		Yes
18CS5A1	Object Oriented System Development using UML, Java and Patterns (Common to CS & IS)	Yes		Yes
18IS5A2	Social Networks (Common to CS & IS)	Yes		Yes
18CS5A3	Applied Natural Language Processing	Yes		Yes
18CS5A4	Introduction to robotics	Yes		Yes
18CS5A5	The Joy of Computing using Python (Common to All Branches)	Yes		Yes
18CS5A6	Functional and Conceptual Design	Yes		Yes
18CS5A7	Natural Language Processing	Yes		Yes
18CS5A8	Blockchain and its Applications	Yes		Yes
18G5BXX	Group B: Global Elective			
18G5B04	Intelligent Systems	Yes		
18HEM61	Introduction to Management & Economics	Yes		
18CS62	Artificial Intelligence and Machine Learning (Common to CS & IS)	Yes		
18CS63	Compiler Design	Yes		
18CS64	Minor Project	Yes	Yes	Yes
18CS6CX	Group C: Professional Electives			



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18CS6C1	Internet of Things (common to all branches)	Yes		Yes
18IS6C2	Advanced Algorithms (Common to CS & IS)	Yes		
18CS6C3	Fuzzy Logic (Common to CS & IS)	Yes		
18CS6C4	Data Warehousing and Data mining	Yes		
18CS6C5	Big Data Analytics Using Distributed Platforms(Industry Offered) (Common to CS & IS)	Yes		Yes
18CS6DX	Group D: Professional Electives			
18IS6D1	Web Technology (Common to CS & IS)	Yes		Yes
18CS6D2	Quantum Computing	Yes		
18CS6D3	Artificial Neural networks	Yes		
18CS6D4	Probability, Statistics and Queuing Theory	Yes		
18CS6D5	Robotic Process Automation Design & Development (Industry Offered)	Yes		
18G6E04	Graph Theory	Yes		
18HS68	Professional Practice-II (Employability Skills and Professional Development of Engineers)		Yes	Yes
18HS71	Constitution of India and Professional Ethics		Yes	Yes
18CS72	Computer Graphics and Virtual Reality	Yes		
18CS73	Parallel Architecture and Distributed Programming	Yes		
18CS74	Internship	Yes	Yes	Yes
18CS7FX	Elective F (PE)			
18CS7F1	Linux Internals	Yes		
18CS7F2	Game Theory	Yes		
18CS7F3	Information Storage Management	Yes		
18CS7F4	Software Defined Networks	Yes		
18CS7F5	Introduction to Optimization Techniques			Yes
18CS7GX	Elective G (PE)			
18CS7G1	Cyber Security for Industry 4.0	Yes		Yes
18CS7G2	Application Delivery Controller and Virtualization	Yes		
18CS7G3	Fuzzy Graphs, Fuzzy Soft Sets and Petrinets	Yes		
18CS7G4	Computer Vision	Yes		
18IS7G5	Deep Learning	Yes		
18G7H04	Web Programming	Yes		Yes
18CSP81	Major Project	Yes	Yes	Yes
Electronics and Communication Engineering				
7. EC III IV SEM SYLLABUS1.pdf (rvce.edu.in)				
7.ECE V VI Sem 2018 Syllabus1.pdf (rvce.edu.in)				
6. EC VII & VIII 2018 SYLLABUS-compressed.pdf (rvce.edu.in)				
18MA31B	Discrete and Integral Transforms	Yes		
18BT32A	Environmental Technology	Yes		
18EC33	Analog Microelectronic Circuits	Yes		

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18EC34	Analysis & Design of Digital Circuits	Yes		
18ET35	Principles of Electromagnetic Fields	Yes		
18EE36	Network Analysis	Yes		
18DMA37#	Bridge Course Mathematics	Yes		
18HS38 #	Kannada Course	Yes		Yes
18MA41B	Linear Algebra, Statistics and Probability Theory	Yes		
18EC42	Engineering Materials	Yes		
18EC43	Advanced Digital System Design using Verilog HDL	Yes		
18EI44	Microprocessor & Microcontroller	Yes		
18ET45	Signals and Systems	Yes		
18EC46	Analog Integrated Circuits Design	Yes		
18DCS48	Bridge Course C Programming	Yes		
18HS49	Professional Practice-I Communication Skills	Yes		Yes
18HSI51	Intellectual Property Rights & Entrepreneurship			Yes
18EC52	Embedded System Design	Yes		
18EC53	Communication Systems – 1 (Theory & Practice)	Yes		
18EC54	Digital VLSI Design (Theory & Practice)	Yes		
18EC55	Digital Signal Processing and Machine Learning	Yes		
18EC5A1	OP-AMP Practical Applications: Design Simulation and Implementation	Yes		
18EC5A2	Fiber Optic Communication Technology	Yes		
18EC5A3	The Joy of Computing Using Python	Yes		
18EC5A4	Probability Foundations for Electrical Engineers	Yes		
18CS5A5	Programming in JAVA	Yes		
18G5B01	Fundamentals of Aerospace Engineering	Yes		
18G5B02	Nanotechnology	Yes		
18G5B03	Fuel Cell Technology	Yes		
18G5B04	Intelligent Systems	Yes		
18G5B05	Remote Sensing and Geographic Information System	Yes		
18G5B06	Automotive Electronics	Yes		
18G5B07	E-Mobility	Yes		
18G5B08	Smart Sensors & Instrumentation	Yes		
18G5B09	Operations Research	Yes		
18G5B10	Management Information Systems	Yes		
18G5B11	Automotive Mechatronics	Yes		
18G5B12	Telecommunication systems	Yes		
18G5B13	Quantum Mechanics of Hetero/Nano Structures	Yes		
18G5B14	Thin Films and Nanotechnology	Yes		
18G5B15	Advances in corrosion science and technology	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18G5B16	Computational Advanced Numerical Methods	Yes		
18G5B17	Mathematics for Machine Learning	Yes		
18G5B18	Engineering Economics	Yes		
18HEM61	Introduction to Management and Economics	Yes		
18EC62	Computer Networks and Protocols (Theory & Practice)	Yes		
18EC63	Communication Systems – 2 (Theory & Practice)	Yes		Yes
18EC64	Minor Project**	Yes	Yes	Yes
18EC6CX	Elective C: Professional Electives	Yes		
18EC6DX	Elective D: Professional Electives	Yes		
18G6EXX	Elective E: Global Electives	Yes		
18HSE68	Professional Practice-II	Yes		
18CS6C1	Internet of Things	Yes		
18EC6C2	Real Time Systems	Yes		
18EC6C3	Low power VLSI Design	Yes		
18EC6C4	Database Management Systems (DBMS)	Yes		
18EC6C5	Control Engineering	Yes		
18EC6C6	Cryptography and Network Security	Yes		
18EC6D1	Digital Signal Processing using ARM Cortex M Devices	Yes		
18EC6D2	Computer Vision	Yes		
18EC6D3	Data Structures and Algorithms (Common EC & TE)	Yes		
18EC6D4	Radio Frequency & Millimetre Wave IC Design	Yes		
18EC6D5	Deep Learning	Yes		
18EC6D6	Algorithms for VLSI Design and Automation	Yes		
18G6E06	Wearable Electronics	Yes		
18G6E07	Energy Auditing and Management	Yes		
18G6E13	Thin film nanodevice fabrication technology	Yes		
18HS71	Constitution of India and Professional Ethics	Yes		
18EC72	Microwave and Radiating Systems	Yes		
18EC73	Broadband Wireless -LTE 4G	Yes		
18EC74	Internship	Yes	Yes	Yes
18EC7FX	Elective F (PE)	Yes		
18EC7GX	Elective G (PE)	Yes		
18G7HXX	Elective H (GE)*	Yes		
18EC7F1	High Performance Computing	Yes		
18EC7F2	Mixed Signal Integrated Circuit Design	Yes		
18EC7F3	Design of Testing and Testability	Yes		
18EC7F4	Nanoelectronics	Yes		
18EC7F5	Speech Processing	Yes		
18EC7F6	Radar Systems Engineering	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18EC7G1	Automotive Electronics	Yes		
18EC7G2	Optoelectronics and Networks	Yes		
18EC7G3	System on Chip Design	Yes		
18EC7G4	Multimedia Communication	Yes		
18EC7G5	ASIC Design	Yes		
18EC7G6	ARM Programming & Optimization	Yes		
18G7H01	Unmanned Aerial Vehicles	Yes		
18G7H02	Bioinformatics	Yes		
18G7H03	Industrial Safety and Risk Management	Yes		
18G7H04	Web Programming	Yes		
18G7H05	Solid Waste Management & Statutory Rules	Yes		
18G7H06	Image Processing with Machine Learning	Yes		
18G7H07	Renewable Energy Sources and Storage System	Yes		
18G7H08	MEMS and Applications	Yes		
18G7H09	Project Management	Yes		Yes
18G7H10	Cyber Forensics and Digital Investigations	Yes		
18G7H11	Robotics and Automation	Yes		
18G7H12	Space Technology and Applications	Yes		
18G7H13	Introduction to Astrophysics	Yes		
18G7H14	Materials for Advanced Technology and Spectroscopic Characterization	Yes		
18G7H15	Applied psychology for Engineers	Yes		
18G7H16	Advanced Course in Entrepreneurship	Yes		Yes
18ECP81	Major Project	Yes	Yes	Yes
CIVIL ENGINEERING				
3. CV III IV SEM SYLLABUS1.pdf (rvce.edu.in)				
5. CV V VI Sem 2018 Syllabus1.pdf (rvce.edu.in)				
5. CV VII & VIII 2018 SYLLABUS.pdf (rvce.edu.in)				
18MA31C	Engineering Mathematics - III	Yes		
18CV32**	Civil Engineering Materials	Yes	Yes	
18CV33	Surveying	Yes	Yes	Yes
18CV34	Concrete Technology	Yes	Yes	Yes
18CV35	Strength of Materials		Yes	
18CV36	Water Supply Engineering		Yes	
18DMA37	Bridge Course: Mathematics	Yes	Yes	
(18HS38A)	Kannada Course: Aadalitha Kannada/Vyavaharika Kannada		Yes	
18MA41C	Engineering Mathematics-IV	Yes	Yes	
18BT42A	Environmental Technology		Yes	
18CV43	Fluid Mechanics		Yes	
18CV44	Building Construction and Planning	Yes	Yes	Yes
18CV45	Structural Analysis- I	Yes	Yes	



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18CV46	Soil Mechanics	Yes	Yes	
18CV47	Design Thinking Lab	Yes	Yes	
18DCS48	Bridge Course: C Programming	Yes	Yes	Yes
18HS49	Professional Practice-I Communication Skills		Yes	Yes
18HEM51	Introduction to Management and Economics			Yes
18CV52	Structural Analysis II	Yes	Yes	Yes
18CV53	Design and Drawing of RCC Structures	Yes	Yes	Yes
18CV54	Highway Engineering	Yes	Yes	Yes
18CV55	Hydrology and Irrigation Engineering	Yes	Yes	Yes
18CV5AX	Group A: Professional electives (MOOC Courses)		Yes	
18G5BXX	Group B:Global Elective		Yes	
	VI Semester			
18HSI61	Intellectual Property Rights and Entrepreneurship			Yes
18CV62	Design and Drawing of Steel Structures	Yes	Yes	Yes
18CV63	Waste Water Engineering	Yes	Yes	
18CV6CX	Estimation and Costing	Yes	Yes	Yes
18CV6CX	Elective C: Professional Electives		Yes	
18CV6DX	Elective D: Professional Electives		Yes	
18HS68	Elective E: Global Elective		Yes	
18HS68	Professional Practice- II (Employability Skills and Professional Development of Engineers)		Yes	Yes
18HS71	Constitution of India and Professional Ethics			
18CV72	Geotechnical Engineering	Yes	Yes	Yes
18CV73	Extensive Survey project		Yes	
18CV74	Internship*		Yes	Yes
18CV7FX	Elective F (PE)Professional Elective		Yes	
18CV7GX	Elective G (PE) Professional Elective		Yes	
18G7HXX	Elective H (Open Elective)		Yes	
18CVP81	Major Project		Yes	Yes
ELECTRONICS AND INSTRUMENTATION ENGINEERING				
rvce.edu.in/sites/default/files/8. EI III IV SEM SYLLABUS1.pdf				
8. EI V VI Sem 2018 Syllabus1.pdf (rvce.edu.in)				
Microsoft Word - 8.EIE 7 8SEMESTER 2018 (rvce.edu.in)				
18MA31B	Discrete And Integral Transforms	Yes		
18BT32A	Environmental Technology	Yes		
18EE33	Analog Electronic Circuits	Yes		
18EC34	Analysis & Design of Digital Circuits	Yes		
18EI35	Data Structures Using C	Yes		
18EI36	Measurement & Process Instrumentation	Yes		
18MA41B	Linear Algebra, Statistics and Probability Theory	Yes		
18EC42	Engineering Materials	Yes		
18EI43	Sensors And Actuators	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18EI44	Microprocessor & Microcontroller	Yes		
18TE45	Signals And Systems	Yes		
18EE46	Control Systems	Yes		
18EI47	Design Thinking Lab		Yes	
18HS49	Professional Practice – I		Yes	
18HEM51	Introduction To Management & Economics			Yes
18EI52	Data Networks	Yes		
18TE53	Digital Signal Processing	Yes		
18EI54	VLSI Design	Yes		
18EI55	Virtual Instrumentation & Simulation	Yes		
18G5B08	Smart Sensors & Instrumentation	Yes		
18HSI61	Intellectual Property Rights And Entrepreneurship			Yes
18EI62	Automatic Process Control Technology	Yes		
18EI63	Advanced Micro-Controller & Application	Yes		
18EI64	Minor Projects	Yes	Yes	Yes
18CS6C1	Internet of Things	Yes		
18EI6C2	Aircraft Instrumentation	Yes		
18EI6C3	Advanced Control Systems	Yes		
18EI6C4	Robotics	Yes		
18CS6D1	Machine Learning	Yes		
18EI6D2	Biomedical Instrumentation	Yes		
18EI6D3	Application Specific Integrated Circuits (ASIC)	Yes		
18EI6D4	Real Time Operating Systems	Yes		
18G6E08	Virtual Instrumentation & Applications	Yes		
18HS68	Professional Practice – II			Yes
18HS71	Constitution of India and Professional Ethics			Yes
18EI72	Industrial Automation Technologies	Yes		
18EI73	Advanced Image Processing	Yes		
18EI74	Internship	Yes		
18EI7F1	Safety Instrumentation	Yes		
18EI7F2	Product Design Technology	Yes		
18EI7F3	Advanced Software Tools For Instrumentation And Controls	Yes		
18EI7F4	IoT Based Agricultural Automation	Yes		
18EI7G1	Industrial Wireless Technologies	Yes		
18EI7G2	Virtual And Augmented Reality	Yes		
18EI7G3	Biomedical Signal Processing	Yes		
18EI7G4	Low Power VLSI Design	Yes		
18G8E08	MEMS And Applications	Yes		
18EIP81	Major Project	Yes	Yes	Yes
Electrical and Electronics Engineering				
6. EE III IV SEM SYLLABUS1.pdf (rvce.edu.in)				



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneur ship
6. EE V _ VI Sem 2018 Syllabus1.pdf (rvce.edu.in)				
7. EE VII & VIII 2018 SYLLABUS_compressed.pdf (rvce.edu.in)				
18MA31B	DISCRETE AND INTEGRAL TRANSFORMS	Yes		
18BT32A	ENVIRONMENTAL TECHNOLOGY	Yes		
18EE33	ANALOG ELECTRONIC CIRCUITS	Yes		
18EC34	ANALYSIS & DESIGN OF DIGITAL CIRCUITS	Yes		
18ET35	Principles of Electromagnetic Fields		Yes	
18EE36	Network Analysis		Yes	
18DMA37	Bridge Course: Mathematics		Yes	
18HS38	Kannada Course		Yes	
18MA41B	LINEAR ALGEBRA, STATISTICS AND PROBABILITY THEORY	Yes		
18EC42	ENGINEERING MATERIALS	Yes		
18EE43	Electrical Machines-I			
18EI44	MICROPROCESSOR & MICROCONTROLLER	Yes		
18TE45	SIGNALS AND SYSTEMS	Yes		
18EE46	CONTROL SYSTEMS	Yes		
18EI47	DESIGN THINKING LAB		Yes	
18DCS48	Bridge Course: C Programming		Yes	
18HS49	PROFESSIONAL PRACTICE – I		Yes	
18HEM51	INTRODUCTION TO MANAGEMENT & ECONOMICS			Yes
18EE52	Electrical Machines-II	Yes		
18TE53	Digital Signal Processing	Yes		
18EE54	Generation Transmission and Distribution	Yes		
18EE55	Minor Project		Yes	
18HEM61	Foundations of Management & Economics			Yes
18EE62	Power Electronics Applications to drives	Yes		
18EE63	Modern Control Theory	Yes		
18EE64	Power System Analysis-I	Yes		
18EE6C2	Object Oriented Programming with C++		Yes	
18EE6C3	ARM Microcontroller and Embedded Systems	Yes		
18EE6C4	High Voltage Engineering		Yes	
18EE6C5	VLSI Circuit and Design	Yes		
18EE6D2	Electric Vehicles	Yes		
18EE6D3	Programmable Logic Controller and Supervisory Control & Data Acquisition (PLC And SCADA)	Yes		
18EE6D4	Electrical and Electronic Measuring Instruments	Yes		
18EE6D5,	Fuzzy Logic Control and Applications,	Yes		
18HS71	Constitution of India and Professional Ethics		Yes	
18EE72	Power System Analysis –II	Yes		
18EE73	Switchgear & Protection	Yes		

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18EE7F1	Computer Communication and Networking		Yes	
18EE7F2	Advanced Power Electronics	Yes		
18EE7F3	Smart Grid Technology	Yes		
18EE7F4	Digital Protection of Power Systems	Yes		
18EE7F5	Discrete Control Systems	Yes		
18EE7G1	Industrial Drives and Applications	Yes		
18EE7G2	Electrical Installation Estimation and Costing		Yes	
18EE7G3	Object Oriented Modeling and Design		Yes	
18EE7G4	Power System Operation and Control		Yes	
18EE7G5	ASIC Design	Yes		
18G7H07	Renewable Energy Sources and Storage System	Yes		
18EEP81	Major Project	Yes	Yes	Yes
Electronics and Telecommunication Engineering				
12TEIII_IV_SEM_SYLLABUS1_new_compressed.pdf (rvce.edu.in)				
4-TE-2018-V-VI-scheme-syllabus-full.pdf (rvce.edu.in)				
12. TE VII & VIII 2018 SYLLABUS.pdf (rvce.edu.in)				
18MA31B	Discrete and Integral Transforms	Yes		
18BT32A	Environmental Technology	Yes		
18EE33	Analog Electronic Circuits	Yes	Yes	
18EC34	Analysis & Design of Digital Circuits	Yes	Yes	
18TE35	Principles of Electromagnetic Fields	Yes		
18EE36	Network Analysis	Yes		
18DMA37	Bridge Course: Mathematics	Yes		
18HS38	Kannada Course	Yes		
18MA41B	Linear Algebra, Statistics and Probability Theory	Yes		
18EC42	Engineering Materials	Yes		
18TE43	Analog Communication	Yes	Yes	
18EI44	Microprocessor & Microcontroller	Yes	Yes	
18TE45	Signals and Systems	Yes		
18TE46	Object Oriented Programming With C++	Yes		
18DCS48	Bridge Course: C programming	Yes		
18HS49	Professional Practice-I Communication Skills	Yes		
18HSI51	Intellectual Property Rights and Entrepreneurship	Yes		Yes
18TE52	Digital Modulation & Coding	Yes	Yes	
18TE53	Digital Signal Processing	Yes	Yes	
18TE54	Microwave Engineering	Yes		Yes
18TE55	Telecommunication Switching Systems	Yes		
18TE5A1	Introduction to Embedded System Design	Yes		
18TE5A2	Semiconductor Devices and Circuits	Yes	Yes	
18TE5A3	Control systems	Yes		
18TE5A4	Computer architecture and organization	Yes		
18CS5A5	The Joy of Computing using Python	Yes	Yes	Yes

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneur ship
18G5B12	Telecommunication Systems	Yes		
18HEM61	Introduction to Management and Economics	Yes		
18TE62	Antenna & Propagation	Yes		
18TE63	Computer Communication Networks	Yes		
18TE64	Minor Project	Yes	Yes	Yes
18CS6C1	Internet of Things and Edge Computing	Yes		
18TE6C2	Image Processing & Computer Vision	Yes		
18TE6C3	DSP Applications	Yes	Yes	
18TE6C4	Operating Systems	Yes		
18CS6D1	Machine Learning	Yes	Yes	Yes
18TE6D2	CMOS Digital Integrated circuits	Yes	Yes	
18EC6D3	Data Structures and Algorithms	Yes		
18TE6D4	JAVA	Yes	Yes	Yes
18G6E12	Mobile Network System & Standards	Yes	Yes	
18HS71	Constitution of India and Professional Ethics	Yes		Yes
18TE72	Wireless Communication	Yes	Yes	
18TE73	Optical Fiber Communication	Yes	Yes	
18TE74	Internship (6 weeks)	Yes		
18TE7F1	Application Specific Integrated Circuits	Yes		
18TE7F2	MIMO systems	Yes		
18TE7F3	Deep Learning and Artificial Intelligence	Yes		
18TE7F4	Wireless Networks and Standards	Yes		
18TE7F5	RF Circuits and Systems	Yes		
18TE7G1	5G Mobile Networks	Yes	Yes	Yes
18TE7G2	Multimedia communication	Yes		
18TE7G3	Cryptography and Network Security	Yes		
18TE7G4	Satellite and Navigation Systems	Yes		
18TE7G5	Wireless Sensor Networks	Yes		
18G7H12	Space Technology and Applications	Yes	Yes	
18TEP81	Major Project	Yes	Yes	Yes
INDUSTRIAL ENGINEERING AND MANAGEMENT				
9. IM III IV SEM SYLLABUS1.pdf (rvce.edu.in)				
9. IM V VI Sem 2018 Syllabus1.pdf (rvce.edu.in)				
9. IM VII & VIII 2018 SYLLABUS.pdf (rvce.edu.in)				
18MA31C	Engineering Mathematics – III	Yes	Yes	
18ME32	Engineering Materials	Yes	Yes	
18IM33	Principles of Fluid Mechanics & Thermodynamics	Yes	Yes	
18IM34	Metrology & Measurements	Yes	Yes	
18IM35	Work Systems Design	Yes	Yes	
18IM36	Manufacturing Processes	Yes	Yes	
18DMA37	Bridge Course: Mathematics	Yes		
18HS38	Vyavaharika Kannada / Aadalitha Kannada	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18IM41	Engineering Statistics	Yes	Yes	
18BT42A	Environmental Technology	Yes	Yes	Yes
18IM43	Engineering Economy and Costing	Yes		Yes
18IM44	Computer Aided Design and Manufacturing	Yes	Yes	Yes
18IM45	Decision Sciences - Deterministic Models	Yes	Yes	
18IM46	Strength of Materials and Machine Design	Yes	Yes	
18IM47	Design Thinking lab	Yes	Yes	Yes
18DCS48	Bridge Course: C Programming	Yes	Yes	
18HS49	Professional Practice-I (Communication Skills)	Yes	Yes	
18HEM51	Introduction to Management & Economics	Yes		Yes
18IM52	Decision Sciences - II (Stochastic Models)	Yes	Yes	
18IM53	Statistical Process Control	Yes	Yes	
18IM54	Operations Management	Yes	Yes	
18IM55	Marketing Management	Yes		Yes
18IM56	Internship	Yes	Yes	Yes
18IM5A1	Mathematical Modelling of Manufacturing Processes	Yes	Yes	
18IM5A2	Decision Support System for Managers	Yes	Yes	
18IM5A3	International Business			Yes
18ME5A4	Rapid Manufacturing	Yes		
18CS5A5	The Joy of Computing with Python	Yes	Yes	
18G5B01	Fundamentals of Aerospace Engineering	Yes		
18G5B02	Nanotechnology	Yes		
18G5B03	Fuel Cell Technology	Yes	Yes	
18G5B04	Intelligent Systems	Yes		
18G5B05	Remote Sensing and Geographic Information System	Yes		
18G5B06	Automotive Electronics	Yes		
18G5B07	e-Mobility	Yes		
18G5B08	Smart Sensors & Instrumentation	Yes		
18G5B09	Operations Research	Yes		
18G5B10	Management Information Systems	Yes		
18G5B11	Automotive Mechatronics	Yes		
18G5B12	Telecommunication Systems	Yes		
18G5B13	Quantum Mechanics of Hetero/Nano Structures	Yes		
18G5B14	Thin Films and Nanotechnology	Yes		
18G5B15	Advances In Corrosion Science and Technology	Yes		
18G5B16	Computational Advanced Numerical Methods	Yes		
18G5B17	Mathematics for Machine Learning	Yes		
18G5B18	Engineering Economy	Yes		Yes
18HSI61	Intellectual Property Rights & Entrepreneurship	Yes		Yes
18IM62	Financial Accounting and Costing	Yes		

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18IM63	Supply Chain Management	Yes		Yes
18IM64	Minor Project	Yes	Yes	Yes
18CS6C1	Internet of Things	Yes	Yes	
18IM6C2	Facilities Planning Design and Ergonomics	Yes	Yes	
18IM6C3	Multi Criteria Decision Modelling	Yes	Yes	
18IM6C4	Reliability Engineering	Yes		
18IM6C5	Advanced Manufacturing Processes	Yes	Yes	
18CS6D1	Machine Learning	Yes	Yes	
18IM6D2	Human Resource Management & Development	Yes		Yes
18IM6D3	Simulation Modeling and Analysis	Yes	Yes	
18IM6D4	Design of Experiments	Yes		
18IM6D5	Digital Manufacturing	Yes		
18G6E01	Aircraft Systems	Yes		
18G6E02	Bio Inspired Engineering	Yes		
18G6E03	Sustainable Technology	Yes		Yes
18G6E04	Graph Theory	Yes		
18G6E05	Disaster Management	Yes		Yes
18G6E06	Wearable Electronics	Yes		
18G6E07	Energy Auditing and Management	Yes	Yes	Yes
18G6E08	Virtual Instrumentation & Applications	Yes		
18G6E09	Systems Engineering	Yes		Yes
18G6E10	Introduction To Mobile Application Development	Yes		
18G6E11	Industrial Automation	Yes		
18G6E12	Mobile Network System and Standards	Yes		
18G6E13	Thin Film Nano Device Fabrication Technology	Yes	Yes	
18G6E14	Chemistry of advanced energy storage devices for E-Mobility	Yes		
18G6E15	Advanced Statistical Methods	Yes	Yes	
18G6E16	Mathematical Modelling	Yes	Yes	
18G6E17	Foundational course in Entrepreneurship			Yes
18HSE68	Professional Practice- II	Yes	Yes	
	(Employability Skills & Professional Development of Engineers)			
18HS71	Constitution of India and Professional Ethics	Yes		
18IM72	Product Design and Development	Yes	Yes	Yes
18IM73	Foundations of Robotics and Automation	Yes	Yes	
18IM7F1	Financial Management	Yes		
18IM7F2	Data Mining & Predictive Analytics	Yes		
18IM7F3	Applied Ergonomics	Yes		
18IM7F4	Smart Manufacturing for Industry 4.0	Yes		
18IM7F5	E-Commerce	Yes		
18IM7G1	Quality Management	Yes		

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18IM7G2	Project Planning & Control	Yes		
18IM7G3	Principles of Systems Engineering	Yes		
18IM7G4	Lean Manufacturing Systems	Yes	Yes	Yes
18IM7G5	Digital Supply Chain Management	Yes		
18G7H01	Unmanned Aerial Vehicles	Yes		
18G7H02	Bioinformatics	Yes	Yes	
18G7H03	Industrial Safety and Risk Management	Yes		
18G7H04	Web Programming	Yes	Yes	
18G7H05	Solid Waste Management and Statutory Rules	Yes		Yes
18G7H06	Image Processing and Machine Learning	Yes		
18G7H07	Renewable Energy Sources and Storage System	Yes		
18G7H08	MEMS & Applications	Yes		
18G7H09	Project Management	Yes		Yes
18G7H10	Cyber Forensics and Digital Investigations	Yes		
18G7H11	Robotics And Automation	Yes	Yes	
18G7H12	Space Technology and Applications	Yes		
18G7H13	Introduction To Astrophysics	Yes		
18G7H14	Materials For Advanced Technology and Spectroscopic Characterization	Yes		
18G7H15	Applied Psychology for Engineers	Yes		
18G7H16	Advanced Course in Entrepreneurship		Yes	Yes
18IMP81	Major Project	Yes	Yes	Yes
Information Science and Engineering				
10. IS III IV SEM SYLLABUS1.pdf (rvce.edu.in)				
10.ISE-V-VI-SEM-2018-SYLLABUS.pdf (rvce.edu.in)				
10. IS VII & VIII 2018 SYLLABUS-compressed.pdf (rvce.edu.in)				
18MA31 A	Linear Algebra, Laplace Transformations & Combinatorial	Yes		
18BT32A	Environmental Technology	Yes		
18IS33	Data Structures and its Applications	Yes		
18IS34	Operating Systems	Yes		
18IS35	Logic Design and Computer Organization	Yes		
18CS36	Discrete Mathematical Structures	Yes		
18DCS37	Bridge Course C Programming*	Yes		
18HS38	Kannada	Yes	Yes	
18MA41 A	Graph Theory, Statistics & Probability Theory	Yes		
18BT42B	Biology for Engineers	Yes		
18CS43	Design and Analysis of Algorithms	Yes		
18IS44	Unix System Programming	Yes		
18CS45	OOPS with Java	Yes		
18IS46	Theory of Computations	Yes		
18DMA49	Bridge Course Mathematics	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18HS48	Professional Practice-I	Yes		
18HSI51	Intellectual Property Rights and entrepreneurship	Yes		
18IS52	Computer Networks	Yes		
18CS53	Database Design	Yes		
18IS54	Compiler Design	Yes		
18IS55	Software Engineering	Yes		
18IS5AX	Group A: Professional Electives (MOOC Courses)	Yes		
18G5BXX	Group B: Global Elective	Yes		
18HEM61	Introduction to Management and Economics	Yes		
18CS62	Artificial Intelligence and Machine Learning	Yes		
18IS63	Cryptography and Network Security	Yes		
18IS64	Minor Project**	Yes	Yes	Yes
18IS6CX	Elective C: Professional Electives	Yes		
18IS6DX	Elective D: Professional Electives	Yes		
18G6EXX	Elective E: Global Elective Graph Theory	Yes		
18HSE68	Professional Practice-II	Yes		
18CS5A1	Object Oriented System Development using UML, Java and Patterns	Yes		
18IS5A2	Social Networks	Yes		
18IS5A3	Artificial Intelligence Search Methods For Problem Solving	Yes		
18TE5A4	Computer Architecture & Organization	Yes		
18CS5A5	The joy of Computing using Python	Yes		
18CS6C1	Internet of Things (common to all branches)	Yes		
18IS6C2	Advanced Algorithms (Common to CS & IS)	Yes		
18CS6C3	Fuzzy Logic (Common to CS & IS)	Yes		
18IS6C4	Data Storage Technologies & Networking	Yes		
18CS6C5	Big Data Analytics Using Distributed Platforms– (Industry Offered) (Common to CS & IS)	Yes		
18IS6D1	Web Technology(Common to CS & IS)	Yes		
18IS6D2	Information Retrieval	Yes		
18IS6D3	Cloud Computing	Yes		
18IS6D4	Natural Language Processing	Yes		
18IS6D5	Software Quality and Assurance	Yes		
18G5B01	Fundamentals of Aerospace Engineering	Yes		
18G5B02	Nanotechnology	Yes		
18G5B03	Fuel Cell Technology	Yes		
18G5B04	Intelligent Systems	Yes		
18G5B05	Remote Sensing and Geographic Information System	Yes		
18G5B06	Automotive Electronics	Yes		
18G5B07	E-Mobility	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18G5B08	Smart Sensors & Instrumentation	Yes		
18G5B09	Operations Research	Yes		
18G5B10	Management Information Systems	Yes		
18G5B11	Automotive Mechatronics	Yes		
18G5B12	Telecommunication Systems	Yes		
18G5B13	Quantum Mechanics of Hetero/Nano Structures	Yes		
18G5B14	Thin Films and Nanotechnology	Yes		
18G5B15	Advances in Corrosion Science and Technology	Yes		
18G5B16	Computational Advanced Numerical Methods	Yes		
18G5B17	Mathematics for Machine Learning	Yes		
18G5B18	Engineering Economy	Yes		
18G6E01	Aircraft Systems	Yes		
18G6E02	Bioinspired Engineering	Yes		
18G6E03	Sustainable Technology	Yes		
18G6E04	Graph Theory	Yes		
18G6E05	Disaster Management	Yes		
18G6E06	Wearable Electronics	Yes		
18G6E07	Energy Auditing and Management	Yes		
18G6E08	Virtual Instrumentation & Applications	Yes		
18G6E09	Systems Engineering	Yes		
18G6E10	Introduction to Mobile Application Development	Yes		
18G6E11	Industrial Automation	Yes		
18G6E12	Mobile Network System and Standards	Yes		
18G6E13	Thin Film Nano device Fabrication Technology	Yes		
18G6E14	Chemistry of Advanced Energy Storage Devices for E- Mobility	Yes		
18G6E15	Advanced Statistical Methods	Yes		
18G6E16	Mathematical Modeling	Yes		
18G6E17	Foundational Course on Entrepreneurship	Yes		Yes
18HS71	Constitution of India & Professional Ethics			Yes
18IS72	Virtual Reality (Theory and Practice)	Yes		
18IS73	Cyber Security and Digital Forensics (Theory and Practice)	Yes		
18IS7FX	Elective F (PE-4)	Yes		
18IS7GX	Elective G (PE-5)	Yes		
18G7HXX	Elective H (OE)*	Yes		
18IS7F1	Enterprise Applications	Yes		
18IS7F2	Software Defined Networks	Yes		
18IS7F3	Human Computer Interaction	Yes		
18IS7F4	Block Chain Architecture Design and Use case (NPTEL)	Yes		
18IS7F5	Edge Computing	Yes		
18ISP81	Major Project	Yes	Yes	Yes
Mechanical Engineering				
11. ME III IV SEM SYLLABUS1.pdf (rvce.edu.in)				
11. ME V VI Sem 2018 Syllabus1.pdf (rvce.edu.in)				



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
11. ME VII & VIII 2018 SYLLABUS-compressed.pdf (rvce.edu.in)				
18MA31C	Applied Mathematics-III		Yes	Yes
18ME32	Engineering Materials	Yes	Yes	
18ME33	Mechanics of Materials		Yes	
18ME34	Concepts of Metrology and Machine Drawing	Yes	Yes	
18ME35	Thermal Engineering 1	Yes	Yes	
18ME36	Kinematics of Machines	Yes		Yes
18MA41C	Applied Mathematics IV	Yes		
18BT42A	EnvirnomentaI Technology		Yes	
18ME43	Manufacturing Process		Yes	
18ME44	Thermal Engineering 2		Yes	
18ME45	Dynamics of Machines		Yes	Yes
18ME46	Fluid Mechanics	Yes	Yes	
18HEM51	Introduction to Management and Economics	Yes		Yes
18ME52	CAD / CAM		Yes	Yes
18ME53	Heat Transfer	Yes	Yes	
18ME54	Design of Machine Elements 1		Yes	Yes
18G5B11	Automotive Mechatronics	Yes		Yes
18HSI61	IPR and Entrepreneurship			Yes
18ME62	Turbomachinary	Yes	Yes	
18ME63	Design of Machine Elements 2		Yes	
18ME6C1	Internet of Things		Yes	
18ME6C2	Gas Dynamics and Combustion	Yes	Yes	
18ME6C3	Foundations of Mechatronics	Yes	Yes	
18ME6C4	Advanced Mechanism Design	Yes		Yes
18ME6D2	Refrigeration and Air-Conditioning	Yes	Yes	
18ME6D3	Hydraulics and Pneumatics	Yes	Yes	Yes
18ME6D4	Product Design and Development	Yes	Yes	Yes
18ME6D5	Vehicle Dynamics		Yes	Yes
18HSI71	Constitution of India and Ethical Practices	Yes		
18ME72	Vibrations and Control System	Yes		
18ME73	Finite Element Methods		Yes	Yes
18ME7F1	- Industry 4.0	Yes		Yes
18ME7F2	Metrology and Quality Control	Yes		Yes
18ME7F3	Micro and Nano Manufacturing	Yes		Yes
18ME7G2	Modelling and Simulation of Manufacturing Process		Yes	
18ME7G3	Manufacturing Systems Automation	Yes		Yes
18ME7G5	Solid Mechanics		Yes	
18MEP81	Major Project	Yes		Yes
MASTER OF COMPUTER APPLICATIONS				
2018 Scheme MCA.pdf (rvce.edu.in)				
18MAT11	Discrete Mathematics	Yes		
18MCA12	Computer Organization and Architecture	Yes		
18MCA13	Data Structures using C	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18MCA14	Object Oriented Programming	Yes		
18MCA15	Web Programming	Yes		
18MCA21	Software Engineering	Yes		
18MCA22	E-Commerce		Yes	
18MCA23	Data Base Systems	Yes		
18MCA24	Operating Systems	Yes		
18MCA25	Java Programming	Yes		
18MCA31	Research Methodology	Yes		
18MCA32	Analysis and Design of Algorithms	Yes		
18MCA33	Computer Networks	Yes		
18MCA341	Non-Relational Databases (NOSQL)	Yes		
18MCA342	Operations Research	Yes		
18MCA343	Machine Learning	Yes		
18MCA351	Content Management System	Yes		
18MCA352	Advanced OOPS	Yes		
18MCA353	Model View Controller Programming	Yes		
18MCA41	Software Testing	Yes		
18MCA42	Mobile Application Development	Yes		
18MCA431	Information Retrieval	Yes		
18MCA432	Pattern Recognition	Yes		
18MCA433	Software Architecture	Yes		
18MCA441	Cyber Security	Yes		
18MCA442	Soft Computing	Yes		
18MCA443	Unified Modeling Language	Yes		
18MCA451	Computer Graphics	Yes		
18MCA452	Advanced Computer Networks	Yes		
18MCA453	Enterprise Application Programming	Yes		
18MCA46	Minor Project– I	Yes	Yes	Yes
18MCA51	Software Project Management	Yes	Yes	Yes
18MCA52	Big Data Analytics	Yes		
16MCA531	Wireless Mobile Networks	Yes		
16MCA532	Software Performance Engineering	Yes		
16MCA533	Principles of UI/UX Design	Yes	Yes	
16MCA541	Cloud Computing	Yes		
16MCA542	Internet of Things	Yes		
16MCA543	Virtual Reality	Yes		
18MCA55	Seminar-1		Yes	
18MCA56	Minor Project – II	Yes	Yes	Yes
18MCA61	Project & Viva Voce	Yes	Yes	Yes
18MCA62	Seminar-2		Yes	
MTech in Machine Design				
5-MMD-MACHINE DESIGN.pdf (rvce.edu.in)				
18MMD12	Mechanics of Composite Materials		Yes	
18MMD13	Kinematics and Dynamics of Mechanisms		Yes	
18MPD1A1	Product design for quality		Yes	
18 MMD1A2	Tribology	Yes	Yes	

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18MCM1A3	Design of hydraulic and pneumatic systems	Yes	Yes	
18MPD1B1	Product data management	Yes	Yes	
18MCE1B2	Intelligent systems	Yes	Yes	
18MCM1B3	Non traditional Machining and testing		Yes	
18MMD21	Advanced Solid Mechanics	Yes		
18MMD22	Advanced Theory of Vibrations	Yes	Yes	
18MMD2C1	Theory of Plates & Shells	Yes		Yes
18MPD2C2	Design of Manufacture & Assembly		Yes	Yes
18MMD2D1	Advanced Machine Design		Yes	
18MCM2D2	Robotics & Automation	Yes	Yes	
18MMD2D3	Advanced Finite Element Analysis	Yes		
18MMD31	Fracture Mechanics	Yes	Yes	
18MMD3E1	Mechatronics system design	Yes		Yes
18MPD3E2	Surface Engineering		Yes	
18MMD3E3	Experimental Mechanics	Yes		Yes
MTECH IN PRODUCT DESIGN				
3- MPD-Product-Design-Manufacturing1.pdf (rvce.edu.in)				
18MPD12	Product design and development	Yes		Yes
18MPD 13	Finite Element Analysis	Yes	Yes	
18 MPD1A1	Product design for quality		Yes	
18 MMD1A2	Tribology		Yes	
18MCM1A3	Design of hydraulic and pneumatic systems		Yes	
18MPD1B1	Product data management		Yes	
18MCE1B2	Intelligent systems	Yes		Yes
18MCM1B3	Non traditional Machining and testing		Yes	
18MPD21	Robust Design		Yes	Yes
18MPD22	Product Lifecycle Management		Yes	Yes
18MPD2C2	Design of manufacture & Assembly	Yes	Yes	
18MPD2C3	Reliability Engineering	Yes	Yes	
18MPD2D1	Product Cost Analysis & Optimization		Yes	
18MCM2D2	Robotics & Automation		Yes	
18MPD31	Advanced Materials and processes		Yes	
18MPD 3E1	Reverse Engineering		Yes	Yes
18 MPD 3E2	Surface Engineering		Yes	
18MCM 3E3	Advanced Manufacturing Practices		Yes	Yes
MTECH IN COMPUTER INTEGRATED MANUFACTURING				
4-MCM-Computer-Integrated-Manufacturing1.pdf (rvce.edu.in)				
18MCM12	Computer control of manufacturing systems	Yes		
18MPD13	Finite Element Analysis	Yes		
18 MPD1A1	Product design for quality	Yes		
18 MMD1A2	Tribology	Yes		
18 MCM1A3	Design of hydraulic and pneumatic systems	Yes		

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18MPD1B1	Product data management	Yes		
18MCE1B2	Intelligent systems	Yes		
18MCM1B3	Non traditional Machining and testing	Yes		
18MCM21	Mechatronics in Manufacturing Systems	Yes		
18MCM22	Tooling for Manufacturing in Automation	Yes		
18IEM23	Research Methodology	Yes	Yes	
18MCM2C1	Automation & Production Systems	Yes		
18MPD2C2	Design of Manufacture & Assembly	Yes		
18MCM2D1	Advanced Metrology	Yes		
18MCM2D2	Robotics & Automation	Yes		
18IEM2D3	Supply Chain Management	Yes		Yes
18MCM 31	Digital Manufacturing	Yes		
18MCM 3E1	Additive Manufacturing	Yes		
18 MPD 3E2	Surface Engineering	Yes		
18MCM 3E3	Advanced Manufacturing Practices	Yes		
18ME2G06	Industry 4.0	Yes		
18ME2G07	Advanced Materials	Yes		
MTECH IN INFORMATION TECHNOLOGY				
15-MIT-Information-Technology1.pdf (rvce.edu.in)				
18MAT11B	Probability Theory and Linear Algebra	Yes		
18MSE12	Advanced Data Structures & Algorithms (Theory &Practice)	Yes		
18MIT13	Advanced Data Engineering (Theory & Practice)	Yes		
18HSS14	Professional Skills Development	Yes	Yes	
18MIT1AX	Elective – A	Yes		
18MIT1BX	Elective - B	Yes		
18MIT A1	Advanced Computer Networks	Yes		
18MIT1A2	Information Retrieval	Yes		
18MSE1A3	Software Architecture	Yes		
18MIT1B1	Human Computer Interaction	Yes		
18MIT1B2	Enterprise Application Development	Yes		
18MIT1B3	Soft Computing	Yes		
18MIT21	Cyber Security & Digital Forensics (Theory & Practice)	Yes		
18MIT22	Big Data Science & Analytics	Yes		
18 IM 23	Research Methodology	Yes		
18 MIT 24	Minor Project	Yes		
18 MIT 2CX	Elective – C	Yes		
18MIT2DX	Elective – D	Yes		
18 XX 2GX	Global Elective – F	Yes		
18 MIT 2C1	Wireless Networks	Yes		
18 MIT 2C2	Distributed Computing	Yes		

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18 MIT 2C3	Computer System Performance & Analysis	Yes		
18 MIT 2D1	Virtual Reality	Yes		
18 MIT 2D2	Information Storage and Management	Yes		
18 MSE 2D3	Software Project Management	Yes		Yes
18CS2G01	Business Analytics	Yes		
18CV2G02	Industrial & Occupational Health and Safety	Yes		Yes
18IM2G03	Modeling using Linear Programming	Yes		
18IM2G04	Project Management	Yes	Yes	Yes
18CH2G05	Energy Management	Yes		
18ME2G06	Industry 4.0	Yes		
18ME2G07	Advanced Materials	Yes		
18CHY2G08	Composite Materials Science and Engineering	Yes		
18PHY2G09	Physics of Materials	Yes		
18MAT2G10	Advanced Statistical Methods	Yes		
18 MIT 31	Internet of Things & Cloud Computing	Yes		
18 MIT 32	Internship	Yes		
18 MIT 33	Major Project : Phase-I	Yes	Yes	Yes
18MIT3EX	Professional Elective-E	Yes		
18 MIT 3E1	Mobile Application Development	Yes		
18 MIT 3E2	Supply Chain Management	Yes		
18 MIT 3E3	Intelligent Computing	Yes		
18 MIT 41	Major Project: Phase-II	Yes	Yes	Yes
18 MIT 42	Technical Seminar	Yes	Yes	
MTECH IN SOFTWARE ENGINEERING				
14.-MSE-Software-Engineering1.pdf (rvce.edu.in)				
18MAT11B	Probability Theory and Linear Algebra	Yes		
18MSE12	Advanced Data Structures & Algorithms	Yes		
18MSE13	Advanced Software Quality & Testing	Yes		
18HSS14	Professional Skills Development	Yes		
18MSE1AX	Elective – A	Yes		
18MSE1BX	Elective – B	Yes		
18 MSE 1A1	Service Oriented Architecture	Yes		
18 MIT 1A2	Information Retrieval	Yes		
18 MSE 1A3	Software Architecture	Yes		
18 MSE 1B1	Fault Tolerant System	Yes		
18 MIT 1B2	Enterprise Application Development	Yes		
18 MSE 1B3	Artificial Neural Networks	Yes		
18MIT 21	Cyber Security & Digital Forensics	Yes		
18MSE 22	Human Computer Interaction	Yes		
18 IM 23	Research Methodology	Yes		
18 MSE 24	Minor Project	Yes	Yes	Yes
18 MSE 2CX	Elective – C	Yes		
18 MSE 2DX	Elective – D	Yes		

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18 XX 2GX	Global Elective	Yes		
18MSE2C1	Metrics And Models For Software Engineering	Yes		Yes
18MCS2C2	Machine Learning	Yes		
18MIT2C3	Computer System Performance & Analysis	Yes		
18MSE2D1	Data Engineering	Yes		
18MSE2D2	Agile Technologies	Yes		Yes
18MSE2D3	Software Project Management	Yes		Yes
18CS2G01	Business Analytics	Yes		Yes
18CV2G02	Industrial & Occupational Health and Safety	Yes		Yes
18IM2G03	Modelling using Linear Programming	Yes		
18IM2G04	Project Management	Yes		Yes
18CH2G05	Energy Management	Yes		Yes
18ME2G06	Industry 4.0	Yes		Yes
18ME2G07	Advanced Materials	Yes		
18CHY2G08	Composite Materials Science and Engineering	Yes		
18PHY2G09	Physics of Materials	Yes		
18MAT2G10	Advanced Statistical Methods	Yes		
18MSE31	SocialNetwork Analysis	Yes		
18MSE32	Internship	Yes	Yes	
18MSE33	Major Project: Phase-I	Yes	Yes	Yes
18MSE3EX	Professional Elective -E	Yes		
18MIT3E1	Mobile Application Development	Yes		
18MSE3E2	Web Intelligence	Yes		
18MSE3E3	Natural Language Processing	Yes		
18MSE41	Major Project:Phase-II	Yes	Yes	Yes
18MSE42	Technical Seminar		Yes	
MTECH IN POWER ELECTRONICS				
6- MPE-PowerElectronics1.pdf (rvce.edu.in)				
18 MAT11A	Applied Mathematics		Yes	
18MPE12	Power Converters-I	Yes		
18MPE13	Control of AC – DC drives	Yes		
18HSS14	Professional (Soft) Skills Development		Yes	
18MPE1A1	Advanced Control Systems	Yes		
18MPE1A2	Intelligent Control Techniques	Yes		
18MPE1A3	Embedded Systems	Yes		
18MPE1B1	Power Quality Problems and Mitigation		Yes	
18MPE1B2	Power System Harmonics		Yes	
18MPE1B3	Smart Grid-Technology, Analysis and Applications	Yes		
18 MPE 21	Power Converters-II	Yes		
18 MPE 22	Modelling and Simulation of Power Electronic Systems		Yes	
18 IEM 23	Research Methodology		Yes	

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneur ship
18MPE24	Minor Project	Yes		
18MPE2C1	EMC in Power Electronics	Yes		
18MPE2C2	PWM Techniques		Yes	
18MPE2C3	DSP Applications to Drives		Yes	
18MPE2D1	Converters for Solar and Wind Systems	Yes		
18MPE2D2	Hybrid Electric Vehicles	Yes		
18MPE2D3	Flexible AC Transmission System	Yes		
18MPE31	Programmable Logic Controller and SCADA	Yes		
18MPE32	Internship	Yes		
18MPE33	Major Project: Phase-I	Yes		
18MPE3E1	Digital System Design		Yes	
18MPE3E2	High Voltage DC Transmission	Yes		
18MPE3E3	Nanomaterials and Devices		Yes	
18MPE41	Major Project: Phase-II	Yes	Yes	Yes
18MPE42	Technical Seminar		Yes	
MTECH IN STRUCTURAL ENGINEERING				
MST Syllabus 2018 scheme- I to IV sem_0.pdf (rvce.edu.in)				
18MAT11A	Applied Mathematics	Yes	Yes	
18MST12	Computational Structural Mechanics	Yes	Yes	
18MST13	Advanced Design of Reinforced Concrete Structures	Yes	Yes	Yes
18HSS14	Professional Skills Development	Yes	Yes	
18MST1A1	Repair and Rehabilitation of structures	Yes	Yes	Yes
18MST1A2	Design of form work	Yes	Yes	
18MST1A3	Precast Concrete Structures	Yes	Yes	Yes
18MST1B1	Design of Sub Structures	Yes	Yes	Yes
18MST1B2	Advanced Structural Analysis	Yes	Yes	
18MST1B3	Structural Health Monitoring	Yes	Yes	
18MST21	Structural Dynamics	Yes	Yes	
18MST22	Mechanics of Deformable Bodies	Yes	Yes	
18IM23	Research Methodology		Yes	
18MST24	Minor Project	Yes	Yes	Yes
18MST2C1	Structural Reliability		Yes	
18MST2C2	Design of Masonry Structures	Yes	Yes	
18MST2C3	Advanced Pre Stressed Concrete	Yes	Yes	Yes
18MST2D1	Finite Element Method of Analysis	Yes	Yes	
18MST2D2	Design of Bridges and Grade Separators	Yes	Yes	Yes
18MST 2D3	Plates and Shells	Yes	Yes	
18XX2G	GROUP G: GLOBAL ELECTIVES		Yes	
18MST31	Special Construction Materials		Yes	
18MST32	Internship	Yes	Yes	Yes
18MST33	Major Project: Phase I	Yes	Yes	Yes



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18MST3E1	Advanced Design of Steel Structures	Yes	Yes	Yes
18MST3E2	Stability of Structures		Yes	
18MST3E3	Earthquake Resistant Design	Yes	Yes	Yes
18MST41	Major Project: Phase-II	Yes	Yes	Yes
18MST42	Technical Seminar		Yes	
MTECH IN VLSI AND EMBEDDED DESIGN				
7- MVE-VLSI-Design-Embedded-Systems1.pdf (rvce.edu.in)				
18MVE11	Digital System Design using Verilog	Yes		
18MVE12	Advanced Embedded System Design	Yes		
18MVE13	Digital IC Design	Yes		
18HSS14	Professional Skill Development	Yes	Yes	
18MVE1A1	Advanced Computer Architecture	Yes		
18MVE1A2	ASIC Design	Yes		
18MVE1A3	Algorithms for VLSI Design	Yes		
18MVE1B1	MEMS and Smart Systems	Yes		
18MVE1B2	System On Chip Design	Yes		
18MVE1B3	Advanced VLSI Devices	Yes		
18MVE21	Analog IC Design	Yes		
18MVE22	System Verilog for Design & Verification	Yes		
18IM23	Research Methodology	Yes		
18MVE24	Minor Project	Yes	Yes	Yes
18MVE2C1	VLSI Testing	Yes		
18MCS2C2	Machine Learning	Yes		
18MVE2C3	High speed VLSI Design	Yes		
18MVE2D1	Low Power VLSI Design	Yes		
18MVE2D2	Advanced Embedded Processors	Yes		
18MVE2D3	VLSI Digital Signal Processing Systems	Yes		
18CS2G01	Business Analytics	Yes		Yes
18CV2G02	Industrial & Occupational Health and Safety	Yes		Yes
18IM2G03	Modelling using Linear Programming	Yes		
18IM2G04	Project Management	Yes		Yes
18CH2G05	Energy Management	Yes		
18ME2G06	Industry 4.0	Yes		
18ME2G07	Advanced Materials	Yes		
18CHY2G08	Composite Materials Science and Engineering	Yes		
18PHY2G09	Physics of Materials	Yes		
18MAT2G10	Advanced Statistical Methods	Yes		
18MVE31	Synthesis & Optimization of Digital Circuits	Yes		
18MVE32	Internship	Yes		
18MVE33	Major Project : Phase I	Yes	Yes	Yes
18MVE3E1	Radio Frequency IC Design	Yes		
18MVE3E2	ARM Programming and Optimization	Yes		

Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18MVE3E3	Static Timing Analysis	Yes		
18MVE41	Major Project : Phase II	Yes	Yes	Yes
18MVE42	Technical Seminar		Yes	
MTECH IN COMMUNICATION SYSTEMS				
18 MAT11B	Probability Theory & Linear Algebra	Yes		
18MCS12	Advanced Communications Systems -1	Yes	Yes	
18MCS13	Advanced Communication Networks & Protocols	Yes		
18HSS14	Professional Skill Development	Yes	Yes	
18MCS1A1	Advanced Embedded Systems	Yes		
18MCS1A2	Advanced Digital Signal Processing	Yes		
18MCS1A3	RF and Microwave Circuits	Yes		
18MVE1B1	MEMS and Smart Systems	Yes		
18MCS1B2	Digital Image Processing	Yes		
18MCS1B3	Cryptography and Network Security	Yes		
18MCS21	Advanced Communications Systems -2	Yes		
18MCS22	Error Control and Coding	Yes		
18IM23	Research Methodology	Yes		
18MCS24	Minor Project	Yes	Yes	Yes
18MCS2C1	Antenna Theory	Yes		
18MCS2C2	Machine Learning	Yes		
18MCS2C3	Optical Communication Networks	Yes		
18MCS2D1	Wireless Sensor Networks and IOT	Yes		
18MCE2D2	Deep Learning	Yes		
18MVE2D3	VLSI Digital Signal Processing Systems	Yes		
18CS2G01	Business Analytics	Yes		
18CV2G02	Industrial & Occupational Health and Safety	Yes		
18IM2G03	Modeling using Linear Programming	Yes		
18IM2G04	Project Management	Yes		Yes
18CH2G05	Energy Management	Yes		
18ME2G06	Industry 4.0	Yes		
18ME2G07	Advanced Materials	Yes		
18CHY2G08	Composite Materials Science and Engineering	Yes		
18PHY2G09	Physics of Materials	Yes		
18MAT2G10	Advanced Statistical Methods	Yes		
18MCS31	Smart Antenna Signal Processing	Yes		
18MCS32	Internship	Yes		
18MCS33	Major Project : Phase I	Yes	Yes	Yes
18MCS3E1	Wireless Cellular and LTE 4G Broadband	Yes		
18MCS3E2	Wireline Broadband Communications	Yes		
18MCS3E3	Wireless Local Area Networks	Yes		
18MCS41	Major Project : Phase II	Yes	Yes	Yes
18MCS42	Technical Seminar	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
M.Tech in Computer Science and Engineering				
10- MCE-Computer-Science-Engineering1_0.pdf (rvce.edu.in)				
18MAT11B	Probability Theory and Linear Algebra	Yes		
18MCE12	Advances in Algorithms and Applications	Yes		
18MCE13	Data Science	Yes		
18HSS14	Professional Skills Development	Yes	Yes	Yes
18MCE1A1	Computer Network Technologies	Yes	Yes	
18MCE1A2	Data Preparation and Analysis	Yes		
18MCE1A3	Applied Cryptography	Yes		
18MCN 1B1	Cloud Computing Technology	Yes		Yes
18MCE1B2	Intelligent Systems	Yes		
18MCN1B3	Wireless Network Security	Yes		
18MCE21	Big Data Analytics	Yes		
18MCE22	Parallel Computer Architecture	Yes		
18IM23	Research Methodology	Yes	Yes	Yes
18MCE24	Minor Project	Yes	Yes	Yes
18MCE2C1	Wireless and Mobile Networks	Yes		
18MCE2C2	Natural Language Processing	Yes		
18MCN2C3	Cloud Security	Yes		
18MCN2D1	Internet of Things and Applications	Yes		Yes
18MCE2D2	Deep Learning	Yes		
18MCE2D3	Security Engineering	Yes		
18CS2G01	Business Analytics	Yes		Yes
18MCE31	Operating System Design	Yes		
18MCE32	Internship	Yes	Yes	Yes
18MCE33	Major Project : Phase-I	Yes	Yes	Yes
18MCE 3E1	Software Defined Systems	Yes		
18MCE 3E2	Web Analytics and Development	Yes		
18MCE 3E3	Cyber Security	Yes		
18MCE41	Major Project : Phase-II	Yes	Yes	Yes
18MCE42	Technical Seminar		Yes	
M.Tech in Computer Network Engineering				
11- MCN-Computer-Network-Engineering1.pdf (rvce.edu.in)				
18MAT11B	Probability Theory and Linear Algebra	Yes		
18MCN12	Information and Network Security	Yes		
18MCN13	Advances in Computer Networks	Yes		
18HSS14	Professional Skills Development	Yes	Yes	Yes
18MCN1A1	Wireless Ad-Hoc and Sensor Networks	Yes		
18MCN1A2	Data Management Essentials	Yes		
18MCE1A3	Applied Cryptography	Yes		
18MCN1B1	Cloud Computing Technology	Yes		



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18MCN1B2	Information Coding	Yes		
18MCN1B3	Wireless Network Security	Yes		
18MCN21	Wireless Communication Technologies	Yes		
18MCN22	Advances in Network Management	Yes		
18IM23	Research Methodology			Yes
18MCN24	Minor Project	Yes	Yes	Yes
18MCN2C1	Network Routing and Protocols	Yes		
18MCS2C2	Machine Learning	Yes		
18MCN2C3	Cloud Security	Yes	Yes	Yes
18MCN2D1	Internet of Things and Applications	Yes	Yes	Yes
18MCN2D2	Advances in Algorithms	Yes	Yes	
18MCE2D3	Security Engineering	Yes		Yes
18CS2G01	Business Analytics	Yes		Yes
18MCN31	High Speed Networks	Yes		
18MCN32	Internship	Yes	Yes	Yes
18MCN33	Major Project : Phase-I	Yes	Yes	Yes
18MCE3E1	Software Defined Systems	Yes		
18MCN3E2	Data Storage Technology and Networks	Yes		Yes
18MCE3E3	Cyber Security	Yes		Yes
18MCN41	Major Project : Phase-II	Yes	Yes	Yes
18MCN42	Technical Seminar		Yes	
MTech Biotechnology				
1-4 SEM MTech Biotechnology 2018.pdf (rvce.edu.in)				
18MAT11A	Applied Mathematics	Yes	Yes	
18MBT12	Molecular Biology and Genetic Engineering	Yes	Yes	
18MBT13	Computational Genomics and Proteomics	Yes	Yes	
18MBT1A1	Stem cells and Tissue Engineering	Yes	Yes	
18MBT1A2	Agricultural Biotechnology and Sustainability	Yes	Yes	
18MBT1A3	Shell Scripting	Yes	Yes	
18MBT1B1	Human diseases	Yes	Yes	
18MBT1B2	Alternative farming	Yes	Yes	Yes
18MBT1B3	System Biology	Yes	Yes	
18MBT21	Upstream Process Technology	Yes	Yes	Yes
18MBT22	Pharmaceutical Technology	Yes	Yes	
18IM23	Research Methodology	Yes	Yes	
18MBT2C1	Biomedical Instrumentation and Digital health	Yes	Yes	
18MBT2C2	Crop improvement and molecular breeding	Yes	Yes	Yes
18MBT2C3	Insilico drug design	Yes	Yes	
18MBT2D1	Medical Implant and Devices	Yes	Yes	
18MBT2D2	Food Technology	Yes	Yes	
18MBT2D3	High Performance Computing	Yes	Yes	
18XX2GXX	Global Elective Group-G	Yes	Yes	



Course Code	Name of the Course	Activities/Content focus on		
		Employability	Skill development	Entrepreneurship
18MBT24	Minor Project	Yes	Yes	
18MBT31	Downstream Process Technology	Yes	Yes	
18MBT32	Internship	Yes	Yes	
18MBT33	Major Project: Phase I	Yes	Yes	
18MBT3E1	Nanobiotechnology	Yes	Yes	
18MBT3E2	Biobusiness, Project Management and Economics	Yes	Yes	
18MBT3E3	Next Generation Sequencing Technology	Yes	Yes	
18MBT41	Major Project: Phase II	Yes	Yes	Yes
18MBT42	Technical Seminar		Yes	

2021 Scheme

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
I Year courses				
first-year-syllabus-2018-scheme.pdf (rvce.edu.in)				
21MA11	Multivariable Calculus	Yes		
21PH12	Engineering Physics	Yes		
21EE13	Elements of Electrical Engineering	Yes		
21CV14	Engineering Mechanics	Yes		Yes
21ME15	IDEA Lab	Yes		
21ME16	Computer Aided Engineering Graphics	Yes		
21HSE17	Technical English – I	Yes		Yes
21HSI18	Indian Knowledge Systems	Yes		
21CH12	Engineering Chemistry	Yes	Yes	Yes
21CS13	Programming in C	Yes	Yes	Yes
21ME14	Elements of Mechanical Engineering	Yes		
21EC15	Elements of Electronics Engineering	Yes		
21HSY16	Yoga Practice		Yes	
21MA21	Differential Equations & Numerical Methods	Yes		
21PH22	Engineering Physics	Yes		
21EE23	Elements of Electrical Engineering	Yes		
21CV24	Engineering Mechanics	Yes		
21ME25	IDEA Lab	Yes	Yes	Yes
21ME26	Computer Aided Engineering Graphics	Yes		
21HSE27	Technical English - II	Yes	Yes	Yes
21HSI28	Indian Knowledge Systems	Yes		
21CH22	Engineering Chemistry	Yes		
21CS23	Programming in C	Yes		
21ME24	Elements of Mechanical Engineering	Yes		
21EC25	Elements of Electronics Engineering	Yes		
21HSY26	Yoga Practice		Yes	
AEROSPACE ENGINEERING				
2. AS.pdf (rvce.edu.in)				
2. AS 2021 scheme & syllabus FINAL 1.pdf (rvce.edu.in)				
21MA31C*	Engineering Maths –III	Yes		
21BT32A	Environmental Technology			
21AS33	Introduction to Aerospace Engineering	Yes		
21AS34	Thermodynamics	Yes		
21AS35	Mechanics of Fluids	Yes		
21AS36	Structural Mechanics	Yes		
21DMA37***	Bridge Course: Mathematics	Yes		

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21HS38A / 21HS38V	Kannada Course: Aadalitha Kannada (18HS38A) / Vyavaharika Kannada (18HS38V)		Yes	
21HSAE39 A/B/C/D/E	Ability Enhancement course		Yes	
21ASI310	Summer Internship- I	Yes	Yes	Yes
21MA41C *	Engineering Maths- IV	Yes		
21BT42B* *	Biology for Engineers / Engineering Materials	Yes		
21AS43	Aerospace Propulsion	Yes	Yes	Yes
21AS44	Aerospace Structures	Yes	Yes	Yes
21AS45	Fundamentals of Avionics	Yes		
21AS4AX	Professional Core Elective – Group A	Yes		
21AS46	Design Thinking Lab	Yes	Yes	Yes
21DCS47	Bridge Course: C Programming	Yes		
21HSU48	Universal Human Values and Professional Ethics	Yes		Yes
21HS51	IPRE/FOME (Mandatory Courses)	Yes		Yes
21AS52	Aerodynamics and Flight Performance	Yes	Yes	Yes
21AS53	Finite Element Methods	Yes	Yes	Yes
21XX54	Airport Engineering	Yes		
21XX55	Design of Fixed Wing Unmanned Aerial Vehicles	Yes	Yes	Yes
21XX55	Similitude and approximations In Engineering	Yes	Yes	Yes
21XX55	Laser Based Manufacturing	Yes		
21XX55	Operations Research	Yes		
21XX55	Advanced Partial Differential Equations	Yes		
21G5XXA	Fundamentals of Aerospace Engineering	Yes		
21HS61	IPRE/FOME (Mandatory Courses)	Yes		Yes
21AS62	Gas Dynamics	Yes	Yes	Yes
21AS63	Avionics	Yes		
21XX64	Professional Core Course 3 (Dept Elective)			
21XX65	Professional Core Course 4 (Cluster Elective)			
21G6XXA	Open elective course 1 (Global Elective)			
21XX64	Computational Fluid Dynamics	Yes	Yes	Yes
21XX64	Vibration Engineering	Yes	Yes	Yes
21XX64	Fundamentals of Satellite System	Yes	Yes	Yes
21XX64	Experimental Stress Analysis	Yes		Yes
21XX64	Advanced Manufacturing Technology	Yes		
21XX65	Introduction to Aircraft Design	Yes		
21G6XXA	Aircraft Systems	Yes		

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21HSI71	Constitution of India			
21AS72	Aircraft Stability and Control	Yes	Yes	Yes
21AS73	Aircraft Systems and Instrumentation	Yes		Yes
21AS7GX	Professional Core Elective – Group G (Local Elective)			
21AS7HX	Professional Core Elective – Group H (Local Elective Domain Specialization)			
21G7JXX	Global Elective – Group J (Global Elective Ability Enhancement Courses)			
21ASI75	Summer Internship- III	Yes	Yes	Yes
21AS81	Major Project	Yes	Yes	Yes
BIOTECHNOLOGY				
3-BT.pdf (rvce.edu.in)				
3. BT 2021 scheme & syllabus FINAL.pdf (rvce.edu.in)				
21MA31A*	Engineering Maths- III (Equivalent)	Yes		
21BT32A	Environmental Technology	Yes		
21BT33	Concepts in Biology		Yes	
21BT34	Biochemistry-		Yes	
21BT35	Bioprocess and calculations		Yes	
21BT36	Molecular Biology		Yes	
21BT37	Bridge Course: C Programming	Yes		
21BT38	Kannada Course: (18HS38A) / (18HS38V)		Yes	
21HS39	Ability Enhancement course - I	Yes	Yes	Yes
21MA41	Biostatistics		Yes	Yes
21BT42B	Biology for Engineers / Engineering Materials	Yes		
21BT43	Unit Operations		Yes	Yes
21BT44	Basics of Computer Applications		Yes	
21BT45	Biophysics and Instrumentation		Yes	Yes
21BT4AX	Professional Elective – Group A	Yes		
21BT46	Design Thinking Lab	Yes	Yes	Yes
21DMA47	Bridge Course: Mathematics	Yes		
HSS48	Universal Human Values and Professional Ethics	Yes		Yes
21HSI51	Fundamentals of Management & Economics	Yes		
21BT52	Bioinformatics	Yes		
21BT53	Genetic Engineering and Applications	Yes		
21B5XX	Professional Elective - A (Local Elective)	Yes		
21G5CXX	Nanotechnology	Yes		
21BT55	Summer Internship - II		Yes	
21HSI61	Intellectual Property Rights & Entrepreneurship			Yes

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21BT62	Genomics, Proteomics & Nanotechnology	Yes		
21BT63	Reaction Engineering	Yes		
21BT64	Plant and Animal Biotechnology	Yes		
21C6XX	Professional Elective - C (Local Elective Domain Specialization)	Yes		
21D6XX	Professional Elective - D (Local Elective Ability Enhancement Courses)	Yes		
21G6EXX	Bioinspired Engineering	Yes		
21BT65	Minor Project	Yes	Yes	Yes
21HSI71	Constitution of India			
21BT72	Microbial Technology	Yes		
21BT73	Downstream Processing and recovery	Yes		
21F7XX	Professional Elective - F (Local Elective)	Yes		
21G7XX	Professional Elective - G (Local Elective)	Yes		
21H7XX	Computational Genomics	Yes		
21BT75	Internship Evaluation		Yes	
21BT81	Major Project	Yes	Yes	Yes
Chemical Engineering				
4-CH.pdf (rvce.edu.in)				
5. CH 2021 SCHEME SYLLABUS FINAL compressed.pdf (rvce.edu.in)				
21MA31A *	Integral transforms and advanced numerical methods	Yes		
21BT32	Environmental technology			
21CH33	Momentum transfer	Yes		
21CH34	Particulate Technology	Yes		
21CH35	Chemical Process Calculations	Yes		
21CH36	Industrial Chemistry	Yes		
21DMA37	Bridge course: Mathematics			
21CH39	Design Thinking Lab	Yes		
21CH310	Summer Internship- I	Yes		
21MA41A *	Statistics and probability fundamentals for machine learning	Yes		
21ME42**	Engineering Materials	Yes	Yes	
21CH43	Process Heat Transfer	Yes		
21CH44	Chemical Reaction Engineering	Yes		
21CH45	Chemical Engineering Thermodynamics	Yes		
18CH4A1	Technologies For Clean and Renewable Energy Production	Yes		
18CH4A2	Colloids and Surfaces	Yes		
18CH4A3	Natural Gas Engineering	Yes		
18CH4A4	Application of Spectroscopic Methods in Molecular Structure Determination	Yes		

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
18CH4A5	Introduction to Polymer Science	Yes		
21HS46A/46V	Kannada Course		Yes	
21HSAE46A	Ability Enhancement course	Yes	Yes	Yes
21DCS47	Bridge Course: C Programming	Yes		
21HSU48	Universal Human Values and Social Connect Professional Ethics	Yes		Yes
21HS51B	Principles of Management & Economics	Yes		Yes
21CH52	Process Dynamics and Control	Yes		
21CH53	Design of Water Systems	Yes		
21CH54	Mass Transfer-I	Yes		
21CH55B1	Heterogeneous Reaction Systems	Yes		
21CH55B2	Pilot Plant and Scale up Studies	Yes		
21CH55B3	Design of Piping Systems	Yes		
21CH55C4	Chemical Plant Utilities	Yes		
21CH56C1	Energy Conversion Technologies	Yes		
21CH56C2	Petroleum Technology	Yes		
21CH56C3	Food Packaging Technology	Yes		
21CH56C4	Nanotechnology, Science and Applications	Yes		
21CH56C5	Design, Technology and Innovation	Yes		
21HS61A	Intellectual Property Rights & Entrepreneurship			Yes
21CH62	Process Simulation and Modeling	Yes		
21CH63	Mass Transfer-II	Yes		
21CH64D1	Food Engineering	Yes		
21CH64D2	Fuel Cell Technology	Yes		
21CH64D3	Process Engineering and Economics			Yes
21CH64D4	Energy Storage Technology	Yes		
21CH65E1	Bioenergy Technology	Yes		
21CH65E2	Hydrogen Technology	Yes		
21IE6F1	Industrial Safety and Risk Management	Yes		
COMPUTER SCIENCE AND ENGINEERING				
5-CS.pdf (rvce.edu.in)				
21MA31A*	Linear Algebra, Integral Transforms and Number Theory (Common to CS & IS)	Yes		
21BT32A**	Environmental Technology		Yes	Yes
21IS33	Data Structures and Applications (Common to CS & IS)	Yes		Yes
21CS34	Foundations of Computer Systems Design	Yes		
21CS35	Operating Systems (Common to CS, IS & AI)	Yes		Yes

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21CS36	Discrete Mathematical Structures (Common to CS, IS & AI)	Yes		
21DCS37	Bridge Course: C Programming	Yes		
21HS38A	Kannada Course: Aadalitha Kannada		Yes	
21HS38V	Vyavaharika Kannada		Yes	
21HSAE39A	Ability Enhancement course		Yes	Yes
21CSI310	Summer Internship- I		Yes	Yes
21MA41A	Statistics and Probability for Data Science	Yes		
21BT42B	Bioinspired Engineering	Yes		
21CS43	Design And Analysis of Algorithms (Common to CS, IS & AI)	Yes		Yes
21CS44	Microcontrollers and Embedded Systems	Yes		
21CS45	Computer Networks (Common to CS, IS & AI)	Yes		Yes
21CS4AX	Professional Core Elective – Group A			
21CS4A1	Object Oriented Analysis and Design	Yes		
21CS4A2	Multi-core Computer Architecture – Storage and interconnects	Yes		
21CS4A3	Introduction To Haskell Programming	Yes		
21CS46	Design Thinking Lab	Yes	Yes	Yes
21DMA47	Bridge Course Mathematics	Yes		
21HSU48	Universal Human Values and Professional Ethics		Yes	
21CS49	Object Oriented Programming Using JAVA (Common to CS & AI)	Yes		
ELECTRONICS AND COMMUNICATION ENGINEERING				
7.EC.pdf (rvce.edu.in)				
21MA31B	Linear algebra, Integral transforms and Fourier series	yes		
21BT32A	Environmental Technology	yes		
21EC33	Analog Microelectronic Circuits	yes		
21EC34	Analysis and Design of Digital Circuits (Common with EC/EE/EI/ET)	yes		
21EC35	Network Analysis and Control Systems	yes		
21EC36	Digital System Design Using Verilog HDL	yes		
21DMA37	Bridge Course: Mathematics	yes		
21HS38A/V	AADALITHA KANNADA		Yes	Yes
21HS39	Ability Enhancement course		yes	yes
21ECI310	Summer Internship-1		Yes	
21MA41A	Engineering Maths- IV *	Yes		
21EC42	Engineering Materials	yes		

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21EI43	Microcontrollers & Programming	yes		
21EC44	Signals and Systems	yes		
21EC45	Electromagnetic Fields and Applications	yes		
21XX4AX	Professional Elective – Group A MOOC Courses	yes		
21XX47	Design Thinking Lab	yes	yes	yes
21DCS48	Bridge Course: C Programming***	Yes		
21HS49	Universal Human Values and Social Connect	yes		Yes
CIVIL ENGINEERING				
6-CV.pdf (rvce.edu.in)				
21MA31C*	Integral Transforms, Optimization and Numerical Techniques	Yes	Yes	
21BT32	Environmental Technology	Yes		
21CV33	Mechanics of Materials	Yes	Yes	
21CV34	Surveying	Yes	Yes	Yes
21CV35	Concrete Technology	Yes	Yes	Yes
21CV36	Python Programming	Yes	Yes	Yes
21DMA37	Bridge Course: Mathematics	Yes	Yes	
21CV39	Design Thinking Lab		Yes	Yes
21CVI310	Summer Internship- I	Yes	Yes	Yes
21MA41	Statistics and Probability for Data Science	Yes	Yes	
21CV42	Civil Engineering Materials	Yes	Yes	Yes
21CV43	Mechanics of Fluids		Yes	
21CV44	Building Planning & Drawing	Yes	Yes	Yes
21CV45	Structural analysis	Yes	Yes	Yes
21CV4AX	Professional Core Elective – Group A		Yes	
21HS46A	AADALITHA KANNADA		Yes	
21HSAE46A	Ability Enhancement course		Yes	Yes
21DCS47	Bridge Course: C Programming	Yes		
21HSU48	Universal Human Values and Professional Ethics	Yes		Yes
ELECTRONICS AND INSTRUMENTATION ENGINEERING				
9-EI.pdf (rvce.edu.in)				
9. EI 2021 SCHEME SYLLABUS FINAL compressed.pdf (rvce.edu.in)				
21MA31B*	Linear Algebra, Integral Transforms and Fourier Series	Yes		
21BT32A	Environmental Technology	Yes		
21EE33	Linear Integrated Circuits (Common with EE/EI/ET)	Yes		
21EC34	Analysis and Design of Digital Circuits (Common with EC/EE/EI/ET)	Yes		
21EI35	Data Structures using C	Yes		



Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21EI36	Control Engineering	Yes		
21DMA37	Bridge Course Mathematics	Yes		
21HS38A/V	Kannada Course		Yes	
21HSAE39A	Ability Enhancement course		Yes	Yes
21EII310	Summer Internship- I		Yes	
21MA41A	Statistics and Probability for Data Science	Yes		
21EC42**	Materials for Electronics Engineering	Yes		
21EI43	Microcontroller & Programming	Yes		
21EC44	Signals & Systems (Common with EC/EI)	Yes		
21EI45	Transducers and Actuators	Yes		
22EI4A1	Data Science for Engineers	Yes		
22EI5A2	Programming, Data structures and algorithms using Python	Yes		
22EI5A3	Introduction to Machine Learning	Yes		
22EI5A4	Hardware modelling using Verilog	Yes		
22EI5A5	Power Plant Engineering	Yes		
21DCS47**	Bridge Course: C Programming	Yes		
21HSU48	Universal Human Values and Professional Ethics	Yes		Yes
21HS51A	Intellectual Property Rights & Entrepreneurship			Yes
21EI52	Automatic Process Control and Virtual Instrumentation	Yes		
21EC53	Digital VLSI Design	Yes		
21EC54	Embedded System Design	Yes		
21EI55B1	MEMS & Applications	Yes		
21EI55B2	Advance Control Systems	Yes		
21EI55B3	Data Communication for Instrumentation	Yes		
21EI55B4	Bio Potentials & Medical devices	Yes		
21EI56C1	Cloud Computing and Distributed Systems	Yes		
21EI56C2	User-centric Computing for Human-Computer Interaction	Yes		
21EI56C3	Mechatronics	Yes		
21EI56C4	VLSI Signal Processing	Yes		
21EI56C5	Health Research and Fundamentals	Yes		
21EII57	Summer Internship- II		Yes	
21HS61B	Foundations of Management & Economics	Yes		Yes
21EI62	PLC and SCADA Systems	Yes		
21EI63	Digital Signal Processing	Yes		
21EI64D1	Automation in Industry 4.0	Yes		

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21EI64D2	An Introduction to the Internet of Things	Yes		
21EI64D3	Virtual & Augmented Reality	Yes		
21EI64D4	Application-Specific Integrated Circuit (ASIC) Design	Yes		
ELECTRICAL AND ELECTRONICS ENGINEERING				
8-EE.pdf (rvce.edu.in)				
8. EE 2021 scheme & syllabus FINAL compressed-1.pdf (rvce.edu.in)				
21MA31B	Linear Algebra, Integral Transforms and Fourier Series		Yes	
21BT32A	Environmental Technology		Yes	
21EE33	Linear Integrated Circuits	Yes		
21EC34	Analysis and Design of Digital Circuits	Yes		
21EE35	Network Analysis		Yes	
21EE36	Measurement and Transducers	Yes		
21DMA37	Bridge Course: Mathematics		Yes	
21HS38	Kannada Course		Yes	
21HSAE39	Ability Enhancement course		Yes	
21EEI310	Summer Internship- I	Yes		
21MA41A	Statistics and Probability for Data Science	Yes		
21EC42	Materials for Electronics Engineering		Yes	
21EI43	Microcontroller & Programming	Yes		
21EE44	Power Electronics	Yes		
21ET45	Principles of Electromagnetic Fields		Yes	
21EE46	Design Thinking Lab		Yes	
21DCS47	Bridge Course: C Programming		Yes	
21HSU48	Universal Human Values and Professional Ethics		Yes	
21HS51A	Intellectual Property Rights & Entrepreneurship			Yes
21EE52	Electrical Machines	Yes		
21EE53	Control Systems	Yes		
21EE54	Power Transmission & Distribution	Yes		
21EE55B1	Fuzzy Logic Control and Applications	Yes		
21EE55B2	VLSI Circuit and Design	Yes		
21EE55B3	Computer Communication and Networking	Yes		
21EE55B4	Algorithms and data structure with C++	Yes		
21EEI57	Summer Internship-II		Yes	
21HS61B	Foundations of Management & Economics	Yes		Yes

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21EE62	Solar and Wind Energy Systems	Yes		
21EE63	Signal Systems and Processing	Yes		
21EE6D1	Electric Vehicle - Power Train & Drives	Yes		
21EE6D2	High Voltage Engineering	Yes		
21EE6D3	Special Electrical Machines	Yes		
21EE6D4	Electrical Power Utilization and Illumination	Yes		
21EE65E1	Smart Grid Technology	Yes		
21EE65E2	Modern Control Theory	Yes		
INDUSTRIAL ENGINEERING AND MANAGEMENT				
11-IM.pdf (rvce.edu.in)				
21MA31C	Integral Transforms, Optimization And Numerical Techniques	Yes	Yes	Yes
21IM32	Engineering Materials and Mechanics	Yes	Yes	Yes
21IM33	Work Systems Design	Yes	Yes	Yes
21IM34	Manufacturing Processes	Yes	Yes	Yes
21DMA37	Bridge Course Mathematics	Yes	Yes	Yes
21IM39	Design Thinking Lab	Yes	Yes	Yes
21IMI310	Summer Internship - I	Yes	Yes	Yes
21IM41	Statistics for Data Analytics	Yes	Yes	
21BT42A	Environmental Technology	Yes	Yes	Yes
21IM43	CAD/CAM and Robotics	Yes	Yes	
21IM44	Marketing Management	Yes		Yes
21IM45	Financial Accounting and Management	Yes	Yes	
21IM4A1	Data Base Management System	Yes	Yes	
21IM4A2	Foundation Course in Managerial Economics			Yes
21IM4A3	User-centric Computing for Human-Computer Interaction	Yes	Yes	
21IM4A4	Mechanical Measurement systems	Yes	Yes	
21IM4A5	Mechanics of Machining	Yes	Yes	
21IM4A6	Programming, Data Structures and Algorithms Using Python	Yes	Yes	
21IM4A7	Managing Services	Yes		Yes
21IM4A8	Knowledge Management	Yes		Yes
21IM4A9	Organization Development and Change in 21st century	Yes		Yes
21IM4A10	Managing change in organizations	Yes		Yes
21HS46A / 21HS46V	Kannada Course: Aadalitha Kannada / Vyavaharika Kannada	Yes		
21HSAE39A	National Service Scheme(NSS)	Yes	Yes	Yes
21HSAE39B	National Cadet Corps(NCC)	Yes	Yes	Yes

Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21HSAE39C	Physical Education	Yes	Yes	Yes
21HSAE39D	Music/Dance/ Theatre	Yes	Yes	Yes
21HSAE39E	Art /Photography	Yes	Yes	Yes
21DCS47	Bridge Course: C Programming	Yes		
21HSU48	Universal Human Values and Professional Ethics	Yes		Yes
INFORMATION SCIENCE AND ENGINEERING				
12-IS.pdf (rvce.edu.in)				
12. IS 2021 SCHEME SYLLABUS FINAL.pdf (rvce.edu.in)				
21BT32A**	Environmental Technology	Yes		
21IS33	Data Structure and Applications	Yes		
21IS34	Digital Design and Computer Organization	Yes		
21CS35	Operating Systems	Yes		
21CS36	Discrete Mathematical Structures	Yes		
21DCS37**	Bridge Course: C Programming	Yes		
21HS38A / 21HS38V	Kannada Course: Aadalitha Kannada / Vyavaharika Kannada		Yes	
21HS39	Ability Enhancement course	Yes		Yes
21ISI310	Summer Internship- I		Yes	
21MA41	Statistics and Probability for Data Science	Yes		
21BT42B	Bioinspired Engineering	Yes		
21CS43	Design and Analysis of Algorithms (Common to CS, IS & AI)	Yes		
21IS44	Theory of Computation	Yes		
21CS45	Computer Networks (Common to CS, IS & AI)	Yes		
21IS4AX	Professional Elective – Group A	Yes		
21IS46	Design Thinking Lab	Yes	Yes	Yes
21DMA47	Bridge Course: Mathematics ***	Yes		
21HSU48	Universal Human Values and Professional Ethics	Yes		Yes
21IS49	Programming in JAVA	Yes		
21HS51A	Intellectual Property Rights & Entrepreneurship			Yes
21AI52	Artificial Intelligence and Machine Learning (Common to CS , IS & AI)	Yes		
21CS53	Introduction To Database Systems (Common to CS & IS)	Yes		
21IS54	Cryptography and Network Security	Yes		
21IS55BX	Professional Core Elective-I	Yes		

Course Code	Course Title (Group-B)	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21IS56CX	Professional Core Elective-II (Group C)	Yes		
21ISI57	Summer Internship- II		Yes	
21IS55B1	Management Information Systems	Yes		Yes
21CS55B2	Internet of Things (Common to CS & IS)	Yes		
21CS55B3	Advanced Algorithms (Common to CS & IS)	Yes		
21IS55B4	Natural Language Processing (Common to CS & IS)	Yes		
21IS56C1	Data Science For Engineers	Yes		
21IS56C2	Programming, Data Structures And Algorithms Using Python	Yes		
21IS56C3	Google Cloud Computing Foundations	Yes		
21IS56C4	Introduction To Machine Learning	Yes		
21IS56C5	Big Data Computing	Yes		
21HS61B	Principles of Management & Economics	Yes		
21IS62	Software Engineering (Common to CS & IS)	Yes		
21CS63	Compiler Design (Common to CS & IS)	Yes		
21IS64DX	Professional Core Elective-III (Group – D)	Yes		
21IS65EX	Professional Core Elective (Cluster Elective) (Group- E) (TWO Courses under Each Program)	Yes		
21IE66FX	Institutional Electives – I (Group F)	Yes		
21IS64D1	Information Retrieval	Yes		
21IS64D2	Block Chain Technology (Common to CS & IS Board)	Yes		
21CS64D3	Web Programming (Common to CS & IS Board)	Yes		
21IS64D4	Mobile Application Development	Yes		
21IS65E1	Human Computer Interaction	Yes		
21IS65E2	Cloud Computing	Yes		
Mechanical Engineering				
13-ME.pdf (rvce.edu.in)				
21ME32*	Engineering Materials		Yes	
21ME33	Solid Mechanics		Yes	
21ME34	Engineering Thermodynamics		Yes	Yes
21ME35	Metrology and Machine Drawing	Yes		
21ME36	Python for Mechanical Engineers	Yes		
21ME39	Design Thinking Lab	Yes	Yes	Yes
21MEI310	Summer Internship-		Yes	
21ME43	Theory of Machines	Yes		
21ME44	Fluid Mechanics	Yes		



Course Code	Course Title	Activities/Content with a direct bearing on		
		Employability	Skill development	Entrepreneurship
21ME45	Manufacturing Technology	Yes		
MASTER OF COMPUTER APPLICATIONS				
1MCA2020SCHEMESYLLABUSFINAL_compressed.pdf (rvce.edu.in)				
20MCA21	Software Engineering	Yes		
20MCA22	Data Structures & Algorithms	Yes		
20MCA23	Database Management System	Yes		
20MCA241	Advanced Computer Networks	Yes		
20MCA242	Network Security	Yes		
20MCA243	Internet of Things	Yes		
20MCA251	Machine Learning	Yes		
20MCA252	Big Data Analytics	Yes		
20MCA253	Natural Language Processing	Yes		
20MCA261	PHP based Software Solutions	Yes		
20MCA262	Java based Software Solutions	Yes		
20MCA263	JavaScript based Software Solutions	Yes		
20MCA27	Design-Thinking	Yes		Yes
20MCA31	Project Management	Yes	Yes	Yes
20MCA32	Modern Application Development	Yes		
20MCA331	Cloud Computing	Yes		
20MCA332	Cyber Security	Yes		
20MCA333	Web of Things	Yes		
20MCA341	Artificial Intelligence	Yes		
20MCA342	Augmented and Virtual Reality	Yes		
20MCA343	Deep Learning	Yes		
20MCA351	PHP Framework based Full Stack Software Solutions	Yes		
20MCA352	Java Framework based Full Stack Software Solutions	Yes		
20MCA353	JavaScript Framework based Full Stack Software Solutions	Yes		
20MCA36	Minor Project	Yes	Yes	Yes
20MCA41	Major Project	Yes	Yes	Yes
20MCA42	Technical Seminar		Yes	

2022 SCHEME

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
I Year Courses				
FIRST YEAR Final book-new course codes compressed.pdf (rvce.edu.in)				
22MA11B	Fundamentals of Linear Algebra, Calculus and Differential Equations	Yes		
22PHY12B	Classical Physics for Engineers	Yes		
22ME13	Elements of Mechanical Engineering	Yes		
22ES14X	Engineering Science Course-I	Yes		
22EM1XX	Emerging Technology Course-II	Yes		
22HSE16	Communicative English-I	Yes		Yes
22HSAK17/ 22HSVK17	Adalitha Kannada / Vyavaharika Kannada		Yes	
22ME18	IDEA LAB (Idea Development, Evaluation & Application)	Yes	Yes	Yes
22MA21B	Vector Calculus and Computational Methods	Yes		
22CHY22D	Chemistry of Engineering materials	Yes		
22MECD23	Computer Aided Engineering Graphics	Yes		
22ES24X	Engineering Science Course-II	Yes		
22PL25X	Programming Language Course	Yes		
22EM2XX	Emerging Technology Course-II	Yes		
22HSI27	Fundamentals of Indian Constitution			
22HSY28	Scientific Foundations of Health-Yoga Practice	Yes		
AEROSPACE ENGINEERING				
2. AS 2022 SCHEME AND SYLLABUS FINAL compressed.pdf (rvce.edu.in)				
22MA31 A/B/C/D*	Engineering Maths- III	Yes		
22CV32/22ME 32 /22BT32	Environment & Sustainability / Engineering Materials / Bioinspired Engineering			
22AS33	Thermodynamics	Yes		
22AS34	Mechanics of Fluids	Yes		
22AS35	Structural Mechanics	Yes		
22AS36	Bridge Course: C Programming			
22HSAE39 A/B/C/D/E ***	Ability Enhancement course		Yes	
22XXI310	Summer Internship- I	Yes	Yes	Yes
22MA41/22CV 41	Applied Mathematics	Yes		
22CV42/22ME 42/ 22BT42	Environment & Sustainability / Engineering Materials / Bioinspired Engineering			
22AS43	Aerospace Propulsion	Yes	Yes	Yes
22AS44	Aerospace Structures	Yes	Yes	Yes
22AS45	Fundamentals of Avionics	Yes		
22AS4AX	Professional Core Elective – Group A			

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22AS46	Design Thinking Lab	Yes	Yes	Yes
22DCS47***	Bridge Course: Mathematics	Yes		
22HSU48	Universal Human Values and Professional Ethics	Yes		Yes
BIO TECHNOLOGY				
3. BT 2022 SCHEME AND SYLLABUS FINAL compressed.pdf (rvce.edu.in)				
22MA31B	Engineering Maths- III	Yes		
22CV32/ 22ME32 /22BT32	Environment & Sustainability / Engineering Materials / Bio Safety Standards and Ethics	Yes		
22BT33	Cell and Molecular Biology	Yes		
22BT34	Unit Operations	Yes		
22BT35	Thermodynamics and Bioanalytical Techniques	Yes		
22HSAE36X ***/ 22BTDT36	ABILITY ENHANCEMENT COURSE / DESIGN THINKING LAB		Yes	Yes
22BTI37	Summer Internship- I		Yes	
22DCS38**	Bridge Course: C Programming	Yes		
22BT41	Biostatistics	Yes		
22CV42/22ME 42/ 22BT42	Environment & Sustainability / Engineering Materials / Bio Safety Standards and Ethics	Yes		
22BT43	Programming for Computational Biology	Yes		
22BT44	Biochemistry	Yes		
22BT45	Bioprocess Calculations	Yes		
22BT46AX	Professional Core Course 3 – Group A	Yes		
22BTDT47	Design Thinking Lab	Yes	Yes	Yes
22HSU48	Universal Human Values	Yes		Yes
22DMA49***	Bridge Course: Mathematics	Yes		
CHEMICAL ENGINEERING				
Microsoft Word - 22 scheme Syllabi-3&4 Semester-CH.docx (rvce.edu.in)				
22MA31B	Engineering Maths- III	Yes		
22CV32/42	Environment & Sustainability /			
22ME32/42	Material Science for Engineers /			
22BT32/42	Bio Safety Standards and Ethics			
22CH33	Momentum Transfer	Yes		
22CH34	Particulate Technology	Yes		
22CH35	Chemical Process Calculations	Yes		
22HSAE36X ***	ABILITY ENHANCEMENT COURSE	Yes	Yes	
22DCS38**	Bridge Course: C Programming	Yes		
22MA41	Probability theory and Linear Programming	Yes		
22CV32/42	Environment & Sustainability /	Yes		
22ME32/42	Material Science for Engineers /			

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22BT32/42	Bio Safety Standards and Ethics			
22CH43	Process Heat Transfer	Yes		
22CH44	Chemical Reaction Engineering	Yes		
22CH45	Chemical Engineering Thermodynamics	Yes		
22CH46A1	Technologies For Clean and Renewable Energy Production	Yes		
22CH46A2	Colloids and Surfaces	Yes		
22CH46A3	Natural Gas Engineering	Yes		
22CH46A4	Application of Spectroscopic Methods in Molecular Structure Determination	Yes		
22CH46A5	Introduction to Polymer Science	Yes		
22CHDT47	DESIGN THINKING LAB	Yes	Yes	Yes
22HSU48	Universal Human Values	Yes		Yes
22DMA49***	Bridge Course: Mathematics	Yes		
E&IE				
11. EI 2022 SCHEME AND SYLLABUS FINAL_compressed.pdf (rvce.edu.in)				
22MA31A*	Engineering Maths- III	Yes		
22CV32/22ME32/22BT32	Environment & Sustainability / Engineering Materials / Bioinspired Engineering	Yes		
22EI33	Linear Integrated Circuits and Applications	Yes		
22EC34	Analysis and Design of Digital Circuits with HDL	Yes		
22EI35	Control Engineering	Yes		
22DCS36**	Bridge Course: C Programming	Yes		
22HSAE39 A/B/C/D/E ***	Ability Enhancement course	Yes	Yes	
22EII310	Summer Internship- I		Yes	
22MA41A	Probability theory and Linear Programming	Yes		
22CV42/22ME42/22BT42	Environment & Sustainability/ Materials Science for Engineers/ Bio Safety Standards and Ethics	Yes		
22EI43	Microcontroller and Programming	Yes		
22EC44	Signals and System	Yes		
22EI45	Sensors and Actuators	Yes		
22EI46AX	Professional Core Elective – Group A	Yes		
22HSAE47X	Ability Enhancement course	Yes	Yes	
22HSU48	Universal Human Values	Yes		Yes
22DMA49***	Bridge Course: Mathematics	Yes		
ELECTRICAL AND ELECTRONICS ENGINEERING				

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
10. EE 2022 SCHEME AND SYLLABUS FINAL compressed.pdf (rvce.edu.in)				
22MA31A	Engineering Maths- III	Yes		
22CV32/22ME 32/22BT32	Environment & Sustainability / Engineering Materials / Bioinspired Engineering	Yes		
22EE33	Electronics & Linear Integrated Circuits,	Yes		
22EC34	Analysis and Design of Digital Circuits with HDL	Yes		
22EE35	Signals and Network Analysis	Yes		
22DCS36	Bridge Course: C Programming	Yes		
22HSAE39	Ability Enhancement course	Yes	Yes	
22EII310	Summer Internship- I		Yes	
22MA41A	Probability theory and Linear Programming	Yes		
22CV42/ 22ME42/ 22BT42	Environment & Sustainability/ Materials Science for Engineers/	Yes		
	Bio Safety Standards and Ethics			
22EI43	Microcontroller and Programming	Yes		
22EE44	Power Electronics and Applications	Yes		
22ET45	Principles of Electromagnetics	Yes		
22HSAE47X	Ability Enhancement course	Yes	Yes	
22HSU48	Universal Human Values	Yes		Yes
22DMA49	Bridge Course: Mathematics	Yes		
INFORMATION SCIENCE AND ENGINEERING				
22MA31C	Linear Algebra and Probability Theory	Yes		
22CV32/ 22ME32/ 22BT32	Environment & Sustainability /Engineering Materials / Bio Safety Standards and Ethics	Yes		
22IS33	Data Structures and Application (Common to CS, IS, CD & CY)	Yes		
22IS34	Logic Design and Computer Organisation	Yes		
22CS35	Operating Systems (Common to CS & IS)	Yes		
22ISDT36	Design Thinking Lab	Yes	Yes	Yes
22ISI37	Summer Internship- I		Yes	
22DCS38**	Bridge Course: C Programming	Yes		
22MA41	Discrete Mathematical Structures and Combinatorics (Common to CS, IS, CD, AI & CY)	Yes		
22CV42/ 22ME42/ 22BT42	Environment & Sustainability / Engineering Materials Bio Safety Standards and Ethics	Yes		

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22CS43	Design and Analysis of Algorithms (Common to CS, IS, CD, AI & CY)	Yes		
22IS44	Virtual and Augmented Reality	Yes		
22CS45	Computer Networks (Common to CS, IS, CD, AI & CY)	Yes		
22IS46AX	Professional Core Course 3 – Group A	Yes		
22HSAE47X	ABILITY ENHANCEMENT COURSE	Yes	Yes	
22HSU48	Universal Human Values	Yes		Yes
22DMA49***	Bridge Course: Mathematics	Yes		
22IS46A1	Multi-Core Computer Architecture – Storage and Interconnects	Yes		
22IS46A2	Embedded System Design With ARM	Yes		
22IS46A3	Distributed Systems	Yes		
22IS46A4	Introduction To Haskell Programming	Yes		
22IS46A5	Computer Graphics	Yes		
MASTER OF COMPUTER APPLICATIONS				
22MAT11T	Mathematical Foundation for Computer Science	Yes		
22MCA12T	Linux Shell Scripting	Yes		
22MCA13TL	Computer Networks	Yes		
22MCA14TL	Object Oriented Programming	Yes		
22MCA15TL	Web Application Programming	Yes		
22HSS16L	Ability Enhancement Course-I	Yes	Yes	Yes
22MCA17T	Basics of Programming			
22MCA21T	Research Methodology and IPR		Yes	Yes
22MCA22T	Design and Analysis of Algorithms	Yes		
22MCA23TL	Data Modeling	Yes		
22MCA24TL	Cloud Native Fullstack Application Development-I	Yes		
22MCA251TL	Internet of Things	Yes		
22MCA252TL	Data Science-I	Yes		
22MCA253TL	Software Testing and Practices	Yes		
22MCA254TL	2D and 3D Modeling	Yes	Yes	Yes
22MCA261T	DevOps	Yes		
22MCA262T	Advanced Computer Networks	Yes		
22MCA263T	Cryptography and Network Security	Yes		
22MCA264T	Digital Marketing	Yes		Yes
22MCA27L	Design Thinking		Yes	

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22MCA31T	Software Engineering	Yes		
22MCA32TL	Modern Application Development	Yes		Yes
22MCA33TL	Cloud Native Fullstack	Yes		
22MCA341T	Data Science-II	Yes		
22MCA342T	Augmented Reality and Virtual Reality			
22MCA343T	UI/UX	Yes		Yes
22MCA344T	Blockchain and Cyber Security	Yes		
22MCA351T	Sustainability and Society	Yes	Yes	Yes
22MCA352T	Anthropology and Digital World		Yes	Yes
22MCA353T	Media and Communication	Yes		
22MCA354T	Philosophy and AI		Yes	
22MCA36L	Minor Project	Yes	Yes	Yes
22MCA37L	Internship*	Yes	Yes	Yes
22MCA41L	Project Work	Yes	Yes	Yes
22MCA42L	Technical Seminar		Yes	
22HSS43L	Ability Enhancement Course-II	Yes	Yes	Yes
MTECH - INFORMATION TECHNOLOGY				
MITNew-3-4-24-copy-12-04-2024.pdf (rvce.edu.in)				
22MAT11CT	Linear Algebra and Probability Theory	yes		
22MIT12TL	Advanced Algorithms and Applications	yes		
22MIT13T	Enterprise Application Development	yes		
22MIT14L	Full Stack Development Lab	yes		
22MIT1AXT	Elective A (Professional Elective)	yes		
22MIT1BXT	Elective B (Professional Elective)	yes		
22MCE1A1T	Artificial Intelligence & Machine Learning	yes		
22MCN1A2T	Block Chain Technologies	yes		
22MIT1A3T	Mobile Application Development	yes		
22MIT1A4T	Multicore Architecture	yes		
22MCN1B1T	Social Network Analysis	yes		
22MIT1B2T	Networks and Cryptography	yes		
22MIT1B3T	IOT and Applications	yes		
22MIT1B4T	Computer Systems Performance Analysis	yes		
22IM21T	Research Methodology	yes		
22MSE22TL	Cloud Native Devops	yes		
22MIT23T	Cyber Security & Digital Forensics	yes		
22XXX2CXT	Elective C (Professional Elective)	yes		
22XXX2DXT	Elective D (Global Elective)	yes		



Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
522MIT24L	API Development and Integration Lab	yes		
22HSS25T	Professional Skills Development-I	yes		
22MSE2C1T	Robotic Process Automation	yes		
22MSE2C2T	Software Project Management	yes		
22MIT2C3T	Cloud Computing	yes		
22MIT2C4T	Data Engineering	yes		
22BT2D01T	Bioinspired Engineering	yes		
22BT2D02T	Health Informatics	yes		
22CS2D03T	Business Analytics	yes		
22CV2D04T	Industrial and Occupational Health and Safety	yes		Yes
22CV2D05T	Intelligent Transportation Systems	yes		
22EC2D06T	Electronic System Design	yes		
22EC2D07T	Evolution of Wireless Technologies	yes		
22ET2D08T	Tracking and Navigation Systems	yes		
22IM2D09T	Project Management	yes		Yes
22IS2D10T	Database and Information Systems	yes		
22IS2D11T	Management Information System	yes		
22MAT2D12T	Statistical and Optimization Methods	yes		
22ME2D13T	Industry 4.0	yes		
22MIT31T	Big Data Analytics	yes		
22XXX3EXT	Elective E (Professional Elective)	yes		
22MIT32N	Internship		Yes	
22MIT33P	Minor Project	yes	yes	yes
22MIT3E1T	Augmented Reality & Virtual Reality	Yes		
22MIT3E2T	Natural Language Processing	yes		
22MIT3E3T	Information Retrieval	yes		
22MIT3E4T	Fintech Applications	yes		
22MIT41P	Major Project	yes	yes	yes
22HSS42	Professional Skills Development-II	yes	Yes	
MTECH – SOFTWARE ENGINEERING				
MSE1_compressed.pdf (rvce.edu.in)				
22MAT11CT	Linear Algebra and Probability Theory	Yes		
22MSE12TL	Data Structures and Algorithms	yes		
22MSE13T	Agile Methodology	yes		
22MSE14L	Software Application Development Lab	yes		
22XXX1AXT	Elective A (Professional Elective)	yes		
22XXX1BXT	Elective B (Professional Elective)	yes		

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22MCE1A1T	Artificial Intelligence & Machine Learning	yes		
22MCN1A2T	Block Chain Technologies	yes		
22MIT1A3T	Mobile Application Development	yes		
22MSE1A4T	Reliability Models	yes		
22MCN1B1T	Social Network Analysis	yes		
22MSE1B2T	Human Computer Interaction	yes		
22MIT1B3T	IoT and Applications	yes		
22MSE1B4T	Microservices Development	yes		
22IM21T	Research Methodology	yes		
22MSE22TL	Cloud Native Devops	yes		
22MSE23T	Software Architecture Patterns	yes		
22XXX2CXT	Elective C (Professional Elective)	yes		
22XXX2DXT	Elective D (Global Elective)	yes		
22MIT24L	API Development and Integration Lab	yes		
22HSS25T	Professional Skills Development-I	yes	Yes	
22MSE2C1T	Robotic Process Automation	yes		
22MSE2C2T	Software Project Management	yes		Yes
22MSE2C3T	User Interface & User Experience	yes		
22MSE2C4T	Requirements Engineering	yes		
22BT2D01T	Bioinspired Engineering	yes		
22BT2D02T	Health Informatics	yes		
22CS2D03T	Business Analytics	yes		Yes
22CV2D04T	Industrial and Occupational Health and Safety	yes		Yes
22CV2D05T	Intelligent Transportation Systems	Yes		
22EC2D06T	Electronic System Design	yes		
22EC2D07T	Evolution of Wireless Technologies	yes		
22ET2D08T	Tracking and Navigation Systems	yes		
22IM2D09T	Project Management	yes		Yes
22IS2D10T	Database and Information Systems	Yes		
22IS2D11T	Management Information System	yes		
22MAT2D12T	Statistical and Optimization Methods	yes		
22ME2D13T	Industry 4.0	yes		
22MSE31T	Software Quality Testing and Automation	yes		
22XXX3EXT	Elective E (Professional Elective)	yes		
22MSE32N	Internship		Yes	
22MSE33P	Minor Project	yes	yes	yes
22MIT3E1T	Augmented Reality & Virtual Reality	Yes		

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22MSE3E2T	Decision Support Systems	yes		
22MSE3E3T	Web Intelligence	yes		
22MSE3E4T	Mobile Commerce	yes		
22MSE41P	Major Project	yes	yes	yes
22HSS42	Professional Skills Development-II	yes	Yes	
MTECH – POWER ELECTRONICS				
MPE1_compressed.pdf (rvce.edu.in)				
22MAT11AT	Computational Mathematics	Yes		
22MPE12TL	Power Converters	yes		
22MPE13T	Analysis and Control of AC and DC Drives	yes		
22MPE14L	Software Programming for Power Electronics	yes		
22MPE1A1T	Generalized Theory of Electrical Machines	yes		
22MPE1A2T	EV and HEV - Architecture and Design	yes		
22MPE1A3T	Power Quality Problems and Mitigation	yes		
22MPE1A4T	Smart Grid and Challenges	yes		
22MPE1B1T	Microcontroller and applications in Power Electronics	yes		
22MPE1B2T	VLSI and Applications in Power Electronics	yes		
22MPE1B3T	Advanced Control Systems	yes		
22MPE1B4T	Switching Techniques for Power Converters	yes		
22IM21T	Research Methodology	yes		
22MPE22TL	Advanced Power Converters and Applications	yes		
22MPE23T	PLC and SCADA Systems	yes		
22MPE2C1T	EMI and EMC in Power Electronics System Design	yes		
22MPE2C2T	FACTS and Custom Power Devices	yes		
22MPE2C3T	Intelligent control techniques in drives	yes		
22MPE2C4T	IoT applications in smart grid	yes		
22MPE24L	Embedded Systems Lab	yes		
22HSS25T	Professional Skills Development-I	yes	Yes	
22MPE31T	Modelling of Power Electronic Circuits	yes		
22MPE3E1T	Embedded Systems for EV applications	yes		
22MPE3E2T	Communication Systems and Networking	yes		

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22MPE3E3T	HVDC power transmission Systems	yes		
22MPE3E4T	Power Electronics for Renewable Energy Systems	yes		
22MPE32N	Internship		Yes	
22MPE33P	Minor Project	yes	yes	yes
22MPE41P	Major Project	Yes	yes	yes
22HSS42	Professional Skills Development-II	Yes	yes	
MTECH – STRUCTURAL ENGINEERING				
MST1_compressed.pdf (rvce.edu.in)				
22MAT11AT	Computational Mathematics		Yes	
22MST12TL	Computational Structural Mechanics	yes	yes	
22MST13T	Advanced Design of Reinforced Concrete Structures	yes	yes	Yes
22MST14L	Analysis and Design of Structures Lab	yes	yes	
22MST1A1T	Finite Element Method of Analysis	yes	yes	
22MST1A2T	Forensic Engineering and Rehabilitation of Structures	yes	yes	Yes
22MST1A3T	High Rise Structures	yes	yes	
22MST1B1T	Advanced Structural Analysis	yes	yes	
22MST1B2T	Mechanics of Deformable Bodies	yes	yes	
22MST1B13	Design of Masonary Structures	yes	yes	
22IM21T	Research Methodology			
22MST22TL	Structural Dynamics			
22MST23T	Advanced Design of Steel Structures		yes	
22MST2C1T	Design of Concrete Bridges	yes	yes	
22MST2C2T	Design for Safety	yes	yes	yes
22MST2C3T	Precast Concrete structures	yes	yes	yes
22MST2C4T	Sustainable Construction Practices	yes	yes	
22XXX2DXXT	Elective D (Global Elective)	yes	yes	yes
22MST24L	Analysis and Design of Structures lab	yes	yes	yes
22HSS25T	Professional Skills Development-I	yes	yes	
22MST31T	Advanced Construction Materials			
22MST3E1T	Structural Reliability			
22MST3E2T	Earthquake Resistant Structures	Yes	yes	
22MST3E3T	Stability of Structures		yes	
22MST32N	Internship	yes	yes	Yes
22MST33P	Minor Project	yes	yes	
22MST41P	Major Project	yes	yes	Yes

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22HSS42	Professional Skills Development-II	yes	yes	
MTECH – VLSI DESIGN				
MVE1_compressed.pdf (rvce.edu.in)				
22MVE11T	Digital System Design with FPGA	Yes		
22MVE12TL	Digital IC Design	yes		
22MVE13T	Advanced Embedded System Design	yes		
22MVE14L	ARM CPUs Programming Lab	yes		
22MVE1A1T	Low Power VLSI Design	yes		
22MVE1A2T	ASIC Design	yes		
22MVE1A3T	VLSI Digital Signal Processing	yes		
22MVE1A4T	Real Time Embedded Systems	yes		
22MVE1A5T	Semiconductor Device Modelling	yes		
22IM21T	Research Methodology	yes		
22MVE22TL	Analog IC Design	yes		
22MVE23T	System Verilog for Design & Verification	yes		
22MVE24L	Analog Layout Design Lab	yes		
22HSS25T	Professional Skills Development-I	yes	Yes	
22MCS2C1T	Development of Modern SoCs for Wireless, Wireline and IOT applications	yes		
22MVE2C2T	VLSI Memory Chip Design	yes		
22MVE2C3T	Robotics and Industrial Automation	yes		
22MVE2C4T	Automotive Electronics	yes		
22BT2D01T	Bioinspired Engineering	yes		
22BT2D02T	Health Informatics	yes		
22CS2D03T	Business Analytics	yes		Yes
22CV2D04T	Industrial and Occupational Health and Safety	yes		Yes
22CV2D05T	Intelligent Transportation Systems	yes		
22EC2D06T	Electronic System Design	yes		
22EC2D07T	Evolution of Wireless Technologies	yes		
22ET2D08T	Tracking and Navigation Systems	yes		
22IM2D09T	Project Management	yes		Yes
22IS2D10T	Database and Information Systems	yes		
22IS2D11T	Management Information Systems	yes		
22MAT2D12T	Statistical and Optimization Methods	yes		
22ME2D13T	Industry 4.0	yes		
22MVE31T	Algorithms for VLSI Design Automation	yes		
22MVE32N	Internship		Yes	

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22MVE33P	Minor Project	yes	yes	yes
22MVE3E1T	VLSI Testing	Yes		
22MVE3E2T	High Speed Digital Design	yes		
22MVE3E3T	RFIC Design	yes		
22MVE3E4T	Signal Processing & ML on Microcontrollers	yes		
22MVE3E5T	MEMS and Smart Systems	yes		
22MVE41P	Major Project	yes	yes	yes
22HSS42	Professional Skills Development-II	yes	Yes	
MTECH – COMMUNICATION SYSTEMS				
MCS1_compressed.pdf (rvce.edu.in)				
22MAT11DT	Statistical Learning for Communication	Yes		
22MCS12TL	Advanced Communication Systems-	yes		
22MCS13T	Communication Networks and Protocols	yes		
22MCS14L	Programming and Network Simulation Lab	yes		
22MCS1A1	Advanced Embedded Computing Devices	yes		
2MCS1B1	T Digital System Design Using HDL	yes		
22MCS1A2T	Multirate Systems and Filter Banks	yes		
22MCS1B2T	Multimedia Communication and Networking	yes		
22MVE1A3T	VLSI Digital Signal Processing	yes		
22MCS1B3T	Optical Communications and Networks	yes		
22IM21T	Research Methodology	yes		
22MCS22TL	Advanced Communication Systems-2	yes		
22MCS23T	Smart Antennas and Algorithms	yes		
22MCS24L	Simulation and Characterisation of RF Devices	yes		
22HSS25T	Professional Skills Development-I	yes	Yes	
22MCS2C1T	Development of Modem SoCs for Wireless, Wireline and IOT applications	yes		
22MDC2C1T	RF and Microwave Circuit Design for Wireless Communication Systems	yes		
22MVE2C3T	Robotics and Industrial Automation	yes		
22BT2D01T	Bioinspired Engineering	yes		
22ET2D08T	Tracking and Navigation Systems	yes		
22BT2D02T	Health Informatics	yes		
22IM2D09T	Project Management	yes		Yes

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22CS2D03T	Business Analytics	yes		Yes
22IS2D10T	Database and Information Systems	yes		
22IS2D11T	Management Information Systems	yes		
22MAT2D12T	Statistical and Optimization Methods	yes		
22ME2D13T	Industry 4.0	yes		
22MCS31T	Error Control Coding for Wireless Communication	yes		
22MCS32N	Internship		Yes	
22MCS33P	Minor Project	yes	yes	yes
22MCS3E1T	Next Generation Wireless LANs	Yes		
22MCS3E2T	Cyber Security	Yes		
22MCS3E3T	Modern Radar Systems	Yes		
22MCS41P	Major Project	Yes	yes	yes
22HSS42	Professional Skills Development-II	Yes	Yes	
MTECH – COMPUTER SCIENCE AND ENGINEERING				
MCE1_compressed.pdf (rvce.edu.in)				
22MAT11BT	Linear Algebra, Probability and Queuing Theory	yes		
22MCE12TL	Advanced Data Structures and Algorithms	yes		
22MCE13T	Advances in Data Base Management & Mining	yes		
22MCE14L	Computing & Analytics Lab		Yes	
22MCE1A1T	Artificial Intelligence & Machine Learning	yes		
22MCN1A2T	Blockchain Technologies	yes		
22MIT1A3T	Mobile Application Development	yes		
22MCE1A4T	Computer Vision	yes		yes
22MCN1B1T	Social Network Analysis	yes		yes
22MCN1B2T	Distributed and Cloud Computing	yes		
22MCN1B3T	Software Defined Networks	yes		
22MCE1B4T	Computer Network Technology	yes		
22IM21T	Research Methodology	yes	yes	yes
22MCE22TL	Advances in Operating System	yes		
22MCE23T	Deep Learning	yes		
22MSE2C1T	Robotic Process Automation	yes		YES
22MCE2C2T	Embedded Systems	yes	Yes	
22MCE2C3T	Natural Language Processing	yes		
22MCN2C4T	Internet Of Things and Edge Computing	yes		yes
22CS2D03T	Business Analytics	yes		yes
22MCE24L	Web Application Development Lab		Yes	

Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22HSS25T	Professional Skills Development-I	yes	yes	yes
22MCE31T	High Performance Computing Architectures	yes		
22MIT3E1T	Augmented Reality & Virtual Reality		Yes	YES
22MCE3E2T	Cyber Security	yes		
22MCE3E3T	Software Product Development (Devops)	yes	Yes	
22MCE3E4T	Intelligent Systems	yes		
22MCE32N	Internship	yes	yes	yes
22MCE33P	Minor Project	yes	yes	yes
22MCE41P	Major Project	yes	yes	yes
22HSS42	Professional Skills Development-II	yes	yes	yes
MTECH – COMPUTER NETWORK ENGINEERING				
MCN1_compressed.pdf (rvce.edu.in)				
22MAT11BT	Linear Algebra, Probability and Queuing Theory	yes		
22MCN12TL	Advances in Computer Networks	yes		
22MCN13T	Information and Network Security	yes		
22MCN14L	Software Defined Networks Lab		Yes	
22MCE1A1T	Artificial Intelligence & Machine Learning	yes		
22MCN1A2T	Blockchain Technologies	yes		
22MIT1A3T	Mobile Application Development	yes	Yes	
22MCN1A4T	Advances in Network Management	yes		
22MCN1B1T	Social Network Analysis	yes	yes	
22MCN1B2T	Distributed and Cloud Computing	yes	yes	
22MCN1B3T	Software Defined Networks	yes		
22MCN1B4T	Advances in Storage Area Networks	yes		
22IM21T	Research Methodology	yes	yes	yes
22MCN22TL	Network Programming	yes		
22MCN23T	Advanced Wireless Technologies	yes		
22MSE2C1T	Robotic Process Automation	yes		Yes
22MCE2C2T	Embedded Systems	yes	yes	
22MCN2C3T	Advanced Algorithms	yes		
22MCN2C4T	Internet Of Things and Edge Computing	yes		
22CS2D03T	Business Analytics	yes		Yes
22MCN24L	Open-Source Simulation Lab		Yes	
22HSS25T	Professional Skills Development-I	yes	yes	yes
22MCN31T	Network Routing and Protocols	yes		
22MIT3E1T	Augmented Reality & Virtual Reality	yes		



Course Code	Course Title	Activities/Content with a direct bearing on Employability/ Entrepreneurship/ Skill development		
		Employability	Skill development	Entrepreneurship
22MCE3E2T	Cyber Security	yes		
22MCE3E3T	Software Product Development (Devops)	yes		
22MCE3E4T	Intelligent Systems	yes		
22MCE32N	Internship	yes	yes	yes
22MCE33P	Minor Project	yes	yes	yes
22MCE41P	Major Project	Yes	yes	yes
22HSS42	Professional Skills Development-II	yes	yes	yes

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