

Dr. Narendra Kumar S, Assistant Professor

Dr. Narendra Kumar S, Assistant Professor		
Educational Qualification	B.E, M.Tech, & Ph.D. in Biotechnology	
Experience	Teaching	15 Years
	Research	07 Year
Area of Interest	Fermentation Technology, Downstream Processing, Bioinformatics and Environmental Biotechnology	
Date of joining RVCE	15-01-2009	
Email ID	narendraks@rvce.edu.in	



Project Guided:

Number of UG projects guided: 18

Number of PG projects guided: 14

Publications:

National Conferences: 04

International Journals: 55

National Journals: 07

International Conference: 07

National Conferences:

1. Participated in World Environment Congress from 10th -12th January 2018, held at The Art of Living at Bengaluru.
2. Poster presented in the National conference India Bio on “Production of Hydroxycitric Acid” held on April 2016 at Lalit Ashok Bangalore.
3. Poster presented in the National conference India Bio on “Production of hormones using disposable bioreactor” held on Dec 2017 at Bangalore Palace, Bangalore.

International Journals:

1. Sura Narendra Kumar, Cherishma Kumar Subhasa, Monisha Arun, Samridhi Makkar, Shashank D, Vishwam Dixit., “ Zoloft (Sertraline): Mechanism, Clinical Applications and Production Strategy”., TanZ Jnl., Vol 19 (3).2024 (Scopus Journal).
2. Sura Narendra Kumar, Aparna Kashyap S G, Risha Mahesh, Sumedh S C., SPINRAZA-AN ORPHAN DRUG: Treatment, Mechanism and Production., TanZ Jnl., Vol 19 (3).2024. (Scopus Journal).
3. Ajeet Kumar Srivastava Gourav Dutta , Ashwat Kumar , Prithish Philip Bosco Raj, Narendra Kumar S , “ Advancements in Polyhydroxyalkanoates (PHA) Production via Fermentation” International Journal of Scientific Research in Engineering and Management (IJSREM)., Volume: 07 Issue: 08 | August - 2023
4. Narendra Kumar S, Ahalya Rajeev; Vignesh S Lal, Production of Alkaline Serine Protease from *Bacillus subtilis* MTCC 8601., Research Journal of Pharmacy and Technology. submitted (Scopus Q2 Journal).
5. Narendra Kumar S, Namrata Patil, Rajalaxmi S, Nargees Kousar., “Yeast Fermentation on Agro-Industrial Waste for Sustainable Biosynthesis of 2-Phenyl-Ethanol” International Journal for Multidisciplinary Research (IJFMR)., Volume 5, Issue 4, July-August 2023.
6. S Narendra Kumar, Shreya Melgiri, “Genetic Redesign: Crispr-Cas and Microbial Genome Editing”., International Journal of Scientific Research in Engineering and Management., Volume: 07 Issue: 07 | July – 2023.
7. S Narendra Kumar, Pratheeksha Gurumurthy., “A Detailed Review on application of hyperspectral Imaging for Detection of Microplastics”., IJRAR August 2023, Volume 10, Issue 3, 2023.
8. S Narendra Kumar, Nargees Kousar, Namrata patil, Rajalaxmi S., “Production and Formulation of Postbiotics for Treatment of Acne Vulgaris”., International Journal for Multidisciplinary Research., Volume 5, Issue 4, July-August 2023
9. S Narendra Kumar, Gayatri Jayendran Nair, Yashwi Sinha, Ajeet Kumar Srivastava, and Lingayya Hiremath., “A review on the molecular basis of stemness of mesenchymal stem cells”., World Journal of Biology Pharmacy and Health Sciences, 2023, 15(02), 202–207.
10. S Narendra Kumar, Gayatri Jayendran Nair, Yashwi Sinha, Ajeet Kumar Srivastava, and Lingayya Hiremath., “A review on mesenchymal stem cell-based therapies for autoimmune disorders”., World Journal of Biology Pharmacy and Health Sciences, 2023, 15(02), 170–175.
11. S Narendra Kumar, Shreya Girish K, Ajeet Kumar Srivastava, and Lingayya Hiremath., “Molecular Basis of Antibiotic Resistance in Cancer”., IJRAR August 2023, Volume 10, Issue 3.
12. S Narendra Kumar, Amrutha Gr, Ajeet Kumar Srivastava, and Lingayya Hiremath., “Applications of electrochemical sensors in the domain of Food, Biomolecules and Metal detection- Review”., IJNRD., Volume 8, Issue 8 August 2023.
13. S Narendra Kumar, Vedanth Shree Vidwath, Ajeet Kumar Srivastava, and Lingayya Hiremath., “Gut Microbiota: Exploring The Uses Of Bifilac In Treating Different Human Health Conditions” IJRAR, Volume 10, Issue 3 August 2023.
14. S Narendra Kumar, Ajeet Kumar Srivastava, Lingayya Hiremath, Harshitha V, Krithika K, Mohan P & Zeeba Naaz S “Taxol Production Using Microbes: A Review”., World Journal Of Pharmaceutical Research., Volume 12, Issue 14, 2023.
15. S Narendra Kumar, Rajalaxmi S, Namrata Patil2\, Nargees Kousar., “Production of single cell protein from different food waste”., International Research Journal of Engineering and Technology (IRJET)., Volume: 10 Issue: 08 | Aug 2023.
16. S Narendra Kumar, Purushotham Rao, Madhusudhan P., “Critical analysis of codon optimization techniques”., IJRAR, Volume 10, Issue 3. 2023.

17. S Narendra Kumar, Ashwani Sharma, Puneetha T R, Madhusudhan P, Pratheeksha., “A review on flip flops for sustainability”., IJRAR, Volume 10, Issue 3, August 2023.
18. S Narendra Kumar, Parvati Sajjan, Sushma N H, Nachiket Phatak, P Pallavi., PREBIOTICS AND POSTBIOTICS., International Journal of Scientific Research in Engineering and Management (IJSREM)., Volume: 07 Issue: 08 | August – 2023.
19. S Narendra Kumar, Bhavana NR, Pooja Muralidas, PR Shivadarshini., Nisin Production from Waste: A Review., International Journal of Scientific Research in Engineering and Management (IJSREM)., Volume: 07 Issue: 08 | August – 2023.
20. Narendra Kumar S , Ajeet Kumar Srivastava, Gourav Dutta , Ashwat Kumar , Prithish Philip Bosco Raj., “ Advancements in Polyhydroxyalkanoates (PHA) Production via Fermentation” International Journal of Scientific Research in Engineering and Management (IJSREM)., Volume: 07 Issue: 08 | August - 2023
21. S Narendra Kumar., Eesha Sabnis, Khushi Dutt Vatsa, Nikita Bagade, Yeshaswini Radhakrishnan., “ International Journal of Scientific Research in Engineering and Management (IJSREM)., Volume: 07 Issue: 07 | July - 2023
22. **S Narendra Kumar**, Chetan D M, Lingayya Hiremath, Ajeet Kumar Srivastava, Muralidhara P L, Jyothsana R, Rithika Pravin Iyer, Ruchika Pravin Iyer. Molecular Docking studies of THC-HCA on Cancer Receptors., Research J. Pharm. and Tech. 15(7): July 2022.
23. **Narendra Kumar S.**, Arun Shettar and Ajeet Kumar Srivatsava., “an eco-friendly green approach towards synthesis of iron oxide nanoparticles from vitex leucoxydon and their pharmacological evaluation”. World journal of pharmacy and pharmaceutical sciences., Volume 10, Issue 7, 1851-1868. July 2021.
24. Narendra kumar S., shivaprada s. Hegde., Bacterial Display systems-An Overview. International Journal of Current Advanced research ISSN: O: 2319-6475, ISSN: P: 2319-6505, May 2021
25. **Narendra kumar S.**, shivaprada s. Hegde*, muktha bharadwaj s. And sindhu g. Fructooligosaccharide- sources, properties, production and applications., world journal of pharmacy and pharmaceutical sciences., Volume 10, Issue 7, 1217-1224. June 2021.
26. Narendra Kumar S, Muralidhara P L, Lingayya Hiremath, Swathi P R ., A Recent Advancement on Treatment Technologies for Handling of Pharma Wastewater. Research J. Pharm. and Tech. 13(4): April 2020.
27. **Narendra Kumar S** and Lingayya Hiremath “Characterization and Treatment of Pharmaceutical Wastewater using Trickle Bed Reactor” Journal of Seybold Report (Scopus Indexed) ISSN NO: 1533-9211, Vol 6 Jun 2020.
28. **Narendra Kumar S** , Lingayya Hiremath, Praveen Kumar Gupta, Ajeet Kumar Srivastava
29. “Anti - Cancer Enzyme (L - Asparaginase) Production, Purification And Characterization From A Soil Isolate Of Pseudomonas Sp”., *Int. J. Adv. Res.* 7(12), 753-761 2020.
30. Narendra Kumar S., Lingayya Hiremath, Ajeeth Kumar S and Praveen Kumar Gupta., “A Flex Sensor Based Gesture Controlled Wheelchair”, *Int. J. Adv. Res.* 8(02), 1175-1177. ISSN: 2320-5407. Feb 2020
31. **Narendra kumar S**, Lingayya Hiremath., Isolation and Screening Of Alkaline Protease Producing Bacteria From Fermented food. International Journal of Current Advanced research., ISSN: O: 2319-6475, ISSN: P: 2319-6505., Feb 2020.
32. **Narendra Kumar S**, Lingayya Hiremath, Praveen Kumar Gupta, Ajeet Kumar Srivastava, Shreya Choudhary, Suresh R. and Keshamma E., Synthesis, Characterization of TiO₂ Doped Nanofibres and Investigation on their Antimicrobial Property, *J Pure Appl Microbiol.*, 2019; **13**(4): doi: 10.22207/JPAM.13.4.
33. **S Narendra Kumar**, Ajeet Kumar Srivastava, Lingayya Hiremath, Rithika Pravin Iyer, Praveen Kumar Gupta, Jyothsana R, Ruchika Pravin Iyer. Introduction to Hidden Markov Model and its Biological Applications. International Journal of ChemTech Research. Vol.12 No.03, pp 227-232, 2019.
34. **Narendra Kumar S** , Lingayya Hiremath, Praveen Kumar Gupta, Ajeet Kumar Srivastava, Akanksha Jain, Abhishek R Hegde, Hamsa L “Hyper Immune Response Against T-2 Mycotoxin in *Oryctolagus cuniculus*” , Research Journal of Pharmacy and Technology, 12(1) , 2019.
35. **Narendra Kumar Sura** and Lingayya Hiremath., “Isolation of *Bacillus megaterium* and its Commercial Importance” International Journal of Chem Tech Research, 2019, 12(4):30-36. (Indexed in Thomson Reuters, UGC and Google scholar).

36. **Narendra Kumar Sura**, Lingayya Hiremath, "A Recent Advancement In Hydroxycitric Acid Nutraceutical", World Journal of Pharmaceutical Research, Volume 8, Issue 5, 2019, 677-685. (Indexed in Thomson Reuters, UGC and Google scholar).
37. **Narendra Kumar Sura** and Lingayya Hiremath., "Hydroxycitric Acid (HCA)-A Potent Nutraceuticals" Research Journal of Pharmacy and Technology, 12(6), 2019.
38. **Narendra Kumar S** and Lingayya Hiremath., "Development of antimicrobial Smart Textiles fabricated with magnetite Nano Particles obtained through green synthesis" Materials Toady Proceedings-Elsevier 2018. 5 (2018) 21030–21039
39. **Narendra Kumar S** and Dr Jayanthi N., Environmental Assessment And Management Plan For Setting Up Of An Industry- A Case Study. Int. J. Adv. Res. 6(2), 1809-1818. 2018.
40. Praveen Kumar Gupta, Priyanka V, Lingayya Hiremath, **S Narendra Kumar**, Ajeet Kumar Srivastava. manuscript entitled on Extraction of Phytochemicals from Eucalyptus Spp. & Withania Somnifera and Their Biological Testing . American Journal of Microbiological Research. 2018. Vol. 6, No. 4, 115-123. DOI:10.12691/ajmr-6-4-1
41. Lingayya Hiremath* Praveen Kumar Gupta, **Narendra Kumar S**, Ajeeth Kumar Srivastava, Narayan A V, Sindhu Rajendran, Ravi K M, Mahadevi Narasanagi and Sukanya P. "Functionalized Cellulose Nanofiber –Composite Membranes for Waste water Treatment -a Review" in Journal of Nanotechnology and Materials Science. Vol 5:1 pp35/43
42. Praveen Kumar Gupta, Lingayya Hiremath, **S Narendra Kumar**, Ajeet Kumar Srivastava, V Shashi kumar. A trend in future bioenergy - A review in Journal of Pharmacy Research Journal of Pharmacy Research | Vol 12 • Issue 2 • 2018. Page 200-205.
43. **Narendra Kumar S**; Lingayya Hiremath;Praveen Kumar Gupta, Ajeeth Kumar Srivastava, "Industrial Purification Strategies for Monoclonal Antibodies", Research Journal of Pharmacy and Technology., 10(1),2017, page 1827-1831 (Indexed in Scopus, Thomson Reuters and Google scholar).
44. **Narendra Kumar S** and Lingayya Hiremath., "Green Synthesis of Magnetite Nanoparticles for Treatment of Polluted Water in Asian Journal Of Microbiology, Biotechnology and Environmental Sciences. Vol 2, 408-413, 2017. (Indexed in SCOPUS in 2016).
45. **Narendra Kumar S**, Lingayya Hiremath, Aishwarya Bhat, Praveen Kumar Gupta, Ajeeth Kumar Srivatsava, Yashaswini R Bhat and Srujana S Ramaswamy. Concentration Of Lead And Cadmium In Common Vegetables Consumed Bangalore And The Health Effects. Int. J. Adv. Res. 5(9), 979-982. DOI URL: [http:// dx.doi.org/10.21474/IJAR01/5412](http://dx.doi.org/10.21474/IJAR01/5412).
46. Ajeet Kumar Srivastava, A V Narayan, Praveen Kumar Gupta, Lingayya Hiremath, **Narendra Kumar S**. Solvent-based Delignification of Rice straw for Efficient Enzymatic Hydrolysis of Cellulose and Bioethanol Production. International Journal of Innovative Research in Science, Engineering and Technology. Vol. 6, Issue 8, August 2017. DOI:10.15680/IJRSET.2016.0608181.
47. Praveen Kumar Gupta, Lingayya Hiremath, **Narendra Kumar S**, Ajeet Kumar Srivastava, Navyashri Shankarnarayan, Vidyashree S, Simran A Singh. Nanotechnology Based Sustained Action Drug Delivery System - A Review, manuscript accepted in European Journal of Biotechnology and Bioscience.
48. Ajeet Kumar Srivastava1, A V Narayan, **Narendra Kumar S**, Lingayya Hiremath and Praveen Kumar Gupta. Green liquor pretreatment for the enhancement of enzymatic saccharification of rice husk for ethanol production. Int. J. Adv. Res. 5(10), 139-143. Article DOI: 10.21474/IJAR01/5515. DOI URL: <http://dx.doi.org/10.21474/IJAR01/5515>.
49. Lingayya Hiremath*, Praveen Kumar Gupta, **Narendra Kumar S**, Ajeet Kumar Srivastava, Keerthi N.S, Sukanya P. Evaluation of Fungal Antagonists for Controlling Sugarcane (Var. CoC. 671) Red-rot Disease. Journal of Pharmacy Research article manuscript Number (JPR_18_01).
50. **Narendra Kumar S**, Chandan M. Reddy and Bhargav D. Sanketi, Corrosion inhibition of mild steel by *Capsicum annum* fruit paste., in Perspectives in Science (Science Direct), 2016.
51. **Narendra Kumar S** and Lingayya Hiremath.Design, Screening and Microbial synthesis of Bio-polymers of Poly-Hydroxy- Butyrate (PHB) from Low cost Carbon Sources in International journal of Advanced Research (IJAR), Vol. 3(2), pp. 420-425, 2015.

52. **Narendra Kumar S**, Trilok Chandran B, Sophia Namratha, “Production of theobromine from *Psuedomonas* sp”. International journal of Research pharmacy, 4(2),151-154,2013.
53. Rajeswari. M, Gupta Praveen K, Agarwal Pushpa, **Narendra Kumar S** and Anila Rani P, Isothermal Kinetic And Thermodynamic Studies On Basic Dyes Sorption Using Rice Husk Carbon., Journal of Atoms and Molecules., 2(2), 139–148, 2012.
54. Anila rani P, Choudary G. V, Mahesh, **Narendra Kumar S**, Nagashree N Rao, Praveen kumar gupta, rajeshwari M, Production of Penicillin Acylase using mutant *Escherichia coli* strain, International journal of Bioengineering science and technology, vol2,issue-4,pp122-127,2012.
55. **Narendra Kumar S**, Pushpa Agrawal, Sujata A S and Bhavana B K, Fermentation , Media Optimization Studies For Coenzyme Q10 Production By *Saccharomyces cerevisiae*, International journal of Research pharmacy, 3(1),132-138,2012.

International Conferences:

1. Participated and presented a paper titled “SYNTHESIS OF ECO-FRIENDLY BIO-DETERGENT TO REDUCE IMPACT OF CHEMICAL DETERGENTS” in the 4th International Conference “Recent Innovations in Science & Technology (RIST 2022)” conducted on 08th & 09th July 2022, organized by ERANAD Knowledge City Technical Campus, Malappuram, Kerala, India in association with ISET Research & HEXAIND Technologies and Services.
2. Participated in International conference on Affordable Strategies for Health and Environment conducted by NMAM Institute of Technology, NITTE- 574110 during 23rd -24th May 2019.
3. Poster presented in the National conference India NanoBio on “Pharma Waste to energy” held on Dec 2018 at Lalit Ashok Bangalore.
4. Session chaired and Participated in three day 7th International congress of Environmental Research (ICER-14) during 26 th to 28 th Dec 14, at RVCE campus, Bangalore.
5. Coordinated for International Conference on **ICSEM** (International Conference on Smart Engineering Materials), RVCE 2016.
6. Attended and Presented paper on “Screening and Optimization of Industrially Important Anti-obese Nutraceuticals from Microbes” in National Conference, Genomics in Health and Diseases at Central resreach Institute of Unani Medicine, Hyderabad, August 22-23rd 2014.

Interaction with outside world:

1. Conducted GC MASS Workshop on 23rd and 24th Aug 2023 for External Participants from other institutions.
2. **Expert talk delivered on the Topic “Bioreactor Design and its Kinetics” at PES university on November 17th 2021.**
3. Organized student industrial trip to attend **National Symposium on “Technology and Innovations its Interface with IPR”** held on 28th Jan 2020 at **Indian Institute of Science (Satish Dhavan Auditorium)** Bangalore-12.
4. Organized the two days Training Program on “**Intellectual Property Rights and Innovations with Special Focus on Prior Art Search**” held on 13th-14th Sep 2019 at RVCE in collaboration with Karnataka State Science and Technology (KSCST, IISC Campus).
5. Organized one day visit of Faculty and Students interaction from Govt. Science College Bangalore on 6th Feb 2019 by Department of Biotechnology at RV College of Engineering Bangalore.
6. Organized one day Expert talk on “Equipment handling and Industrial applications of Liquid chromatography- mass spectroscopy” on 8th Feb 2019 by Department of Biotechnology at R.V College of Engineering, Bangalore.

7. Organized Industry-Institute Talk on “**Demo Workshop on Liquid Chromatography-Mass Spectrometry**” held on 25/08/2018, RVCE Bengaluru.
8. Participated in VGST, Govt of Karnataka sponsored National Level faculty Development workshop on Design and Manufacturing Aspects of fermenter, organized by Dept of Biotechnology, during 6th -9th February 2018, NMAM Institute of Technology, NITTE 574110.
9. Participated in “**Industry Academia Interaction Meet**” event as part of India International Science Festival held on 13-16 OCT 2017 at Chennai.
10. The MOU formed between R.V. College of Engineering at Bangalore and Satva Health Solutions Pvt. Ltd Rajajinagar 1st Block, Bengaluru - 560 010 in June 2017
11. Organized and Coordinated for technical Talk on “Opportunity and Technological Collaboration in water Sector” on 2/2/2016 at BT seminar Hall along with Chemical and Civil Departments.

Funded Projects:

1. Project Duration 01.08.2017-31.07.2019

Funded project title: “Waste to Clean Energy”

Funding Agency: KARNATAKA COUNCIL FOR TECHNOLOGICAL UPGRADATION (KCTU)

Funded Amount: 55 Lakhs

Sanction Order: KCTU/RV-WCE/2017-18/160.

2. Project Duration 01.01.2017-31.12.2018

TEQIP 1.2.1 CoE-CME Center of Excellence amount 65000 Rs to carry out project entitled on “Detection of Acetonitrile by Using

Biosensor” 2017, Ref No- RVCE/TEQIP-COE/352A/16-17.

Books/Book Chapters:

1. Bioprocess Technology of Hydroxycitric Acid and their Pharmacology. Natural Product of Garcinia cambogia. Scholar Press. ISBN: 9786138949725, 2021
2. Ajeet Kumar Srivastava, Sindhu Rajendran R, Praveen Kumar Gupta , Lingayya Hiremath, **S Narendra Kumar**,. Manuscript entitled on "The essence of deep learning for security issues- An update.," accepted for the upcoming book, "Handbook of Research on Deep Learning Innovations and Trends." By IGI Global. eEditorial Discovery. 2018
3. Ajeet Kumar Srivastava ,A V Narayan, Praveen Kumar Gupta, Lingayya Hiremath, **Narendra Kumar S** Biodegradation of lignocellulosic biomass and production of ethanol using potential microorganisms, Springer Nature.2019,ISBN, 978-3-030-23833-9
4. Praveen Kumar, Ajeet Kumar Srivastava, Gupta, Lingayya Hiremath, **Narendra Kumar S** . Fungal Biodiversity producing xylanase enzymes involved in efficient uses of xylanolysis in Mycodegradation of Lignocelluloses, Springer Nature.2019,ISBN, 978-3-030-23833-9
5. Sindhu Rajendran R, Praveen Kumar Gupta , Lingayya Hiremath, **S Narendra Kumar**, Ajeet Kumar Srivastava. Chapter entitled on "An Update on Effective Patient Monitoring and Diagnosis of Diseases in the Current Scenario" published in book " Computational Intelligence" By Springer International Publishing.2019. https://doi.org/10.1007/978-3-030-12500-4_11, ,eBook ISBN 978-3-030-12500-4, Hardcover ISBN 978-3-030-12499-1

6. Sindhu Rajendran R, Meghamadhuri Vakil, Praveen Kumar Gupta , Lingayya Hiremath, **S Narendra Kumar**, Ajeet Kumar Srivastava. Manuscript entitled on “An Overview on the concept of Speaker Recognition.” accepted for the upcoming book, "Intelligent Systems for Biometric Systems, Soft Computing, Image Processing, and Data Analytics" By Apple Academic Press in collaboration with CRC press Hard ISBN: 9781771888004.

Workshops:

1. Participated in the One Week National level Online Faculty Development Program on Outcome Based Education and Application of Generative AI in Teaching and Research, organised by the Internal Quality Assurance Cell (IQAC) of Government College Kottayam, in association with The Kerala State Higher Education Council (KSHEC) from 06 March 2024 to 13 March 2024 and has successfully completed all the tasks, assignments and assessments and secured an A grade.
2. Successfully completed five days workshop phase II on Augmented and virtual Reality, Conducted by Department of Master of Computer Applications, R V College of Engineering, Bengaluru from Jan 8 to Jan 12, 2024.
3. Participated and successfully completed the 4-day online FDP on “Next Generation Sequencing - From Genomics to Medicine” in collaboration with Leucine Rich Bio Private Limited, Bangalore Sponsored by Vision Group on Science and Technology (VGST), Department of Information Technology, Biotechnology & Science and Technology, Government of Karnataka & PES University Bengaluru from 25-28 July 2022.
4. Participated and successfully completed the 5-day online FDP on “Biofuels-Recent Trends And Future Prospects” organized by Department of Biotechnology and Biochemical Engineering, Sree Buddha College of Engineering Pattoor P O, Alappuzha – 690529 from 30th Aug-03 Sep 2021.
5. Participated and successfully completed the 5-day online FDP on the theme “Inculcating Universal Human Values in Technical Education” organized by All India Council for Technical Education (AICTE) from 28 June, 2021 to 2 July, 2021.
6. participated in the AICTE sponsored Online Short Term Training Programme on “Functional Metagenomics and Bioprocessing of Therapeutic Enzymes” organized by the Department of Biotechnology, Sri Venkateswara College of Engineering from 22nd to 27th 2021
7. Organized a workshop “**Patent Drafting: Techniques and Tricks**” by **Mr Somashekar Ramakrishana, Senior Partner, Banana IP, Bangalore through Webinar** held on 20th Jan 2020 at RV College of Engineering, Bangalore-59.
8. Organized Twoday Indo-US workshop on “**Hazardous Materials Management**” organized by R V College of Engineering, Bengaluru in association with Alliance of Hazardous Materials Professionals (AHMP), during 23-24, November, 2018.
9. Participated in AICTE sponsored six days Short Term Training Programme on “**Creating and sustaining an ethical workplace culture**” organized by Department of Chemistry, R V College of Engineering, Bengaluru during 19-24 August 2019.
10. Organized the two days Training Program on “**Intellectual Property Rights and Innovations with Special Focus on Prior Art Search**” held on 13th-14th Sep 2019 at RVCE in collaboration with Karnataka State Science and Technology (KSCST, IISC Campus).
11. Organized Three day’s workshop on “Design of Effluent Treatment Plants for Biochemical Industries” held on 2nd to 4th March 2017 Technical Education Quality Improvement Program (TEQIP-II Initiative) R.V College of Engineering Bangalore with industrial partner M/s K-Pack Systems (P) Ltd.
12. Successfully Completed and obtained certificate of Four week AICTE approved FDP on “**Use of ICT in Education for Online and Blended Learning**” held on 2 May to 10 July 2016 Conducted by IIT Bombay. Online session at BMS college of Engineering, Bangalore.
13. Participated in One Week Workshop on “**Pedagogical Skills Development**” held from 25th to 30th July 2016 and organized by RV College of Engineering, Bangalore.

14. Participated in One week workshop on “***Modern Solar PV Materials and Fabrication and Simulation***” held on 30th May to 4th June 2016 Conducted by departmental of Electrical and Electronics, RV College of Engineering, Bangalore.
15. Participated Four day workshop on “**Recent trends in Biomaterials, Biodiagnostics, Tissue Engineering, Drug Delivery and Regenerative Medicine.**” held on 14th April to 17th April 2016 organized by Indian Institute of Technology Delhi (IITD), New Delhi.

Patents granted:

Title of the Invention: Bio-bandage from human platelet lysate admixed with sericin polymer as an efficient wound healer. Patent Number:202241071413

Establishment R&D Facility

The Clean Room Lab facility was instituted in the department of Biotechnology under Funded project to help small scale industries for testing of compound's using GC-MS (Gas chromatography- Mass Spectroscopy and is functioning as R&D/RVCE Consultancy from 2020 under the RSST – KCTU Funds.