

**SELF APPRAISAL OF SAHANA. M, ASSISTANT PROFESSOR**  
**DEPARTMENT OF ENVIRONMENTAL ENGINEERING**  
**JSS SCIENCE AND TECHNOLOGY UNIVERSITY**  
**Sri Jayachamarajendra College of Engineering, JSSTIC, Mysuru.**

<b>NAME</b>	:	<b>SAHANA. M</b>
<b>DATE OF BIRTH</b>	:	May 19, 1992
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<b>EDUCATIONAL QUALIFICATION</b>	:	B.E., Environmental Engg., SJCE, Mysuru (Secured 3 <sup>rd</sup> Rank) M.Tech., Environmental Engg., SJCE, Mysuru (Secured 1 <sup>st</sup> Rank)

**Subjects Taught in Undergraduate and Postgraduate Teaching (2016 – 2019)**

<b>Year</b>	<b>Code</b>	<b>Subject</b>
<b><u>2017 – 2018</u></b> <b><u>Odd Semester</u></b>	EV340	Construction Engineering & Materials
	HU320	Environmental Studies for E & C.
	EV36L	Environmental Chemistry Laboratory – 3 Batches
	EV37L	Survey Laboratory – 1 Batch
	EV12L	Computational Lab for I year – 1 Batch
<b>(PG) Environmental Engineering</b>	EVE110	Applied Environmental Microbiology
<b><u>2018</u></b> <b><u>Even semester</u></b>	EV450	Geology & Geo-Technical Engineering
	HU420	Environmental Studies for Biotechnology
	EV47L	Environmental Fluid Mechanics Lab – 3 Batches
	EV68L	Environmental Process Lab II - 1 Batch
<b><u>2018 – 2019</u></b> <b><u>Odd Semester</u></b>	EV340	Construction Engineering & Materials
	HU320	Environmental Studies for EC”B” and CS “A”
	EV36L	Environmental Chemistry Laboratory – 2 Batches
	EV57D	Design and drawing of Environmental facilities
	EV76L	CADA Lab – 1 Batch

Year	Code	Subject
(PG) Environmental Engineering	EVE110	Applied Environmental Microbiology
<b>2019</b>	EV420	Environmental Microbiology and Ecology
<b><u>Even semester</u></b>	HU420	Environmental Studies for Civil and IP
	EV46L	Environmental Microbiology Lab – 3 batches
	EV67D	Design and drawing of Environmental system - II

### Subjects Taught in Undergraduate and Postgraduate Teaching (2020 - 2021)

Year	Code	Subject
<b><u>Even Semester</u></b>	EV410	Environmental Microbiology and Ecology
	HU420	Environmental Studies for CTM and IP
	EV46L	Environmental Microbiology Lab
<b><u>M.Tech.</u></b>	EVH170	Physico-chemical processes Laboratory (HSWE)
<b><u>Odd Semester</u></b>	EV340	Construction Engineering & Materials
	HU320	Environmental Studies for EC"B" and EE
	EV36L	Environmental Chemistry Laboratory
	EV37L	Surveying Practice
	EV57L	Environmental Process Lab I
(PG) Environmental Engineering	EVE153	Environmental Health and Occupational Safety
<b><u>Even Semester</u></b>	EV440	Geology and Geotechnical Engineering
	EV651	Energy and Environment
	HU420	Environmental Studies (IP)
	EVE220	Environmental Legislation and Impact Assessment
	EV66D	Design And Drawing of Environmental Systems – II
	EV46L	Environmental Microbiology Laboratory

### Subjects Taught in Undergraduate and Postgraduate Teaching (2021 - 2022)

Year	Code	Subject
<b><u>Odd Semester</u></b>	20EV350	Construction Engineering Materials
	20HU312	Environmental Studies for IP
	20EV37L	Water Quality Analysis Laboratory
	EV57L	Water Treatment Process Laboratory
	EV75L	Atmospheric and Computer applications Laboratory
(PG) Health Science and Water Engineering	EVH153	Occupational Safety and Health

Year	Code	Subject
<b><u>Even Semester</u></b>	20EV440	Geology and Geotechnical Engineering
	EV651	Energy and Environment
	20HU412	Environmental Studies (EC "B")
	20HU412	Environmental Studies (CS "A")
	20HU411	Universal Human Values (1 Hour)
	EV67L	Wastewater treatment process laboratory
	EV46L	Environmental Microbiology Laboratory
<b>(PG) Environmental Engineering</b>	EVE220	Environmental Legislation and Impact Assessment

### Subjects Taught in Undergraduate and Postgraduate Teaching (2022 - 2023)

Year	Code	Subject
<b><u>Odd Semester</u></b>	20EV350	Construction Engineering Materials
	20HU312	Environmental Studies for CTM
	20EV37L	Water Quality Analysis Laboratory
	20EV561	Waste to Energy Technologies
<b>(PG) Environmental Engineering</b>	22PEV110	Applied Environmental Chemistry and Microbiology
<b><u>Even Semester</u></b>	20EV440	Geology and Geotechnical Engineering
	EV820	Management Practices in Environmental Engineering
	20HU412	Environmental Studies (EC "B")
	20HU411	Universal Human Values (1 Hour)
	EV46L	Environmental Microbiology Laboratory
	EV47L	Environmental Fluid Mechanics Laboratory
<b>(PG) Environmental Engineering</b>	22PEV220	Environmental Legislation and Impact Assessment

### Subjects Taught in Undergraduate and Postgraduate Teaching (2023 - 2024)

Year	Code	Subject
<b><u>Odd Semester</u></b>	22EV340	Survey Engineering
	22HU312	Environmental Studies for IP
	22EV38L	Surveying practices for Environmental Engineering Applications
	20EV710	Management Practices in Environmental Engineering
<b>(PG) Environmental Engineering</b>	22PEV110	Applied Environmental Chemistry and Microbiology
	22EV440	Geology and Geotechnical Engineering

Year	Code	Subject
<u>Even Semester</u>	22HU411	Universal Human Values
	EV820	Management practices in Environmental Engineering
	22HU412	Environmental Studies (EC, CS)
	22EV38L	Surveying Practices for Environmental Engineering Applications
(PG) Environmental Engineering	22PEV220	Environmental Legislation and Impact Assessment

### Subjects Taught in Undergraduate and Postgraduate Teaching (2024 – 2025)

Year	Code	Subject
<u>Odd Semester</u>	Maternity Leave	
<u>Even Semester</u>		

### Subjects Taught in Undergraduate and Postgraduate Teaching (2025 - 2026)

Year	Code	Subject
<u>Odd Semester</u>	22EV710	Management Practices in Environmental Engineering
	24HU312	Environmental Studies (CTM, IP)
	22EV58L	Atmospheric and Computer applications laboratory
	24EV36L	Environmental Microbiology laboratory
(PG) Environmental Engineering	24PEV110	Applied Environmental Chemistry and Microbiology

**Ph. D:** Registered in the Year 2020 and cleared the course work at first attempt in August 2021, completed Pre-comprehensive Ph. D. Viva-voce in December 2023 and pursuing the work under the guidance of Dr. B M Krishna, Associate Professor, Department of Environmental Engineering, JSS S&TU, SJCE, Mysuru. Completed Progress Review 1 and 2 (February 2024). Completed progress review 3 during September 2024 and progress review 4 during October 2024.

### ONLINE CERTIFICATION COURSES:

- 1) **Mrs. Sahana M** from JSS Science and Technology University, Mysuru has 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 **19th September to 23rd September 2022**.

### COURSERA Courses:

- 1) Successfully completed an online non-credit course on Municipal Solid Waste Management in Developing Countries (5 Weeks) authorized by École Polytechnique Fédérale de Lausanne on 04 June 2020.
- 2) Successfully completed an online non-credit course on Air Pollution – A global threat to our health (3 Weeks) authorized by University of Copenhagen on 28 July 2020.

#### **NPTEL / SWAYAM Courses:**

- 1) Completed Online Certification Course (12 week course) on “Wastewater Treatment and Recycling” offered by at Indian Institute of Technology, Madras, from June – November, 2019.
- 2) Completed Online Certification Course (8 week course) on Technologies for clean and renewable energy production in July to September, 2019.
- 3) Passed the NPTEL course on Plastic Waste Management (8 weeks) – Jan to March 2020.
- 4) Completed Online Certification Course (8 week course) on “Waste to energy conversion” with a consolidated score of 79 % from Jan to march 2023 offered by Indian Institute of Technology, Roorkee.
- 5) Successfully completed the 8 week NPTEL Online Certification course funded by the MoE, Govt. of India on Sustainable Engineering Concepts and Life Cycle Analysis by Prof. Brajesh Kumar Dubey from IIT, Kharagpur between July to September 2023.

#### **ATAL COURSES:**

- 1) Participated & successfully completed AICTE Training And Learning (ATAL) Academy Online Elementary FDP on "**Modern Innovations and Development in Renewable Energy Technology**" from 2021-7-12 to 2021-7-16 at University of Lucknow.
- 2) One week AICTE Training and Learning (ATAL) Academy online FDP on “**Waste Technology**” organized by Manipal University, Jaipur from 2/11/2020 – 6/11/2020.
- 3) One week AICTE Training and Learning (ATAL) Academy online FDP on “**Modern Innovations and Development in Renewable Energy Technology**” organized by University of Lucknow from 12/7/2021 to 16/7/2021.

#### **NITTT COURSE:**

- 1) Successfully completed National Initiative for Technical Teachers Training (NITTT-2021), Module 1: “**Orientation towards Technical Education and Curricular aspects**” with a score of 76 out of 100.

**WEBINAR Organized / coordinated:**

- 1) Organized / coordinated 1 day Webinar on Environmental Legislation and Amendments in India under TEQIP – III on July 22, 2020, Eminent Speaker – Dr. B. M. Prakash, Pollution Control Board.
- 2) Team member in organizing webinar (4) as a part of Alumni webinar series on “Emerging Topics in Environmental Engineering Design and Assessment” by Dr. Shahul Hameed K P, Senior Environmental and Process Engineer, Parsons International, Doha, Qatar on Saturday 23rd August 2025 from 3.30 to 4.30.

**AWARDS and RECOGNITION:**

- 1) Received certificate of appreciation from Registrar and Vice Chancellor on 20<sup>th</sup> September 2024 for contributions rendered as Department Level Coordinator of Criteria 7 for NAAC Cycle 1 accreditation process of JSS STU, Mysuru during 2023 to 2024.
- 2) Received certificate of appreciation for being the coordinator (Registration committee member) at the “International Conference on Heat and Heatwave Trends and Their Health Implications in the Global South” jointly organized by ‘JSS Science and Technology University, Mysuru’, ‘Centre for Science & Technology of the Non-Aligned and other Developing Countries (NAM S&T Centre)’ and ‘Scientific Committee on Problems of the Environment (SCOPE)’ held at JSS STU on 6<sup>th</sup> & 7<sup>th</sup> November 2025.

**As a reviewer:**

- 1) Reviewed a Manuscript with ID LSST-2025-18431 entitled "Elimination of Synthetic Polymers from Wastewater via Electrocoagulation-Electroflotation and Membrane Separation Techniques" for Journal of Separation Science and Technology, Taylor and Francis in the month of February 2025.
- 2) Reviewed a Manuscript with Number: MICROC-D-25-01312R1 entitled “From Separation to Identification: Microplastic Detection Technologies in Soils” for Microchemical Journal, Elsevier in the month of March 2025.
- 3) Reviewed a Manuscript entitled “Advanced Tailwater Treatment Using Microbial Electrolysis Cells Powered by Constructed Wetland-Microbial Fuel Cells” for

Water, Air, & Soil Pollution, Springer Nature in the month of March 2026 and received Reviewer certificate.

**PROGRAMS ATTENDED (FDPs, schools, workshops, seminars, webinars, etc. attended)**

- 1) Finishing School conducted on “**Environmental Auditing and EHS**” during January to April, 2016 organized by the Department of Environmental Engineering under TEQIP II, at Sri Jayachamarajendra College of Engineering, Mysuru.
- 2) One week Faculty Development programme on “**Computational Linear Algebra**” an initiative under TEQIP – II, organized by the Department of Electronics and Communication Engineering, Sri Jayachamarajendra College of Engineering, Mysuru – 570006 from 7<sup>th</sup> – 11<sup>th</sup> December, 2016.
- 3) One week Faculty Development Programme on “**Advances in Pattern Recognition: An approach through MATLAB**” jointly organized by department of Electrical and Electronics Engineering at Sri Jayachamarajendra College of Engineering, Mysuru from 31<sup>st</sup> August to 4<sup>th</sup> September, 2016.
- 4) One-Day National Level Workshop on “**Bloom’s Taxonomy: A Taxonomy for Accreditation**” held on 28<sup>th</sup> July, 2017, organized by Ramaiah Institute of Technology, Bangalore – 560054.
- 5) GIAN course entitled “**Energy, Sustainability and Life cycle Risk Analysis**” held between 13<sup>th</sup> – 28<sup>th</sup> February, 2017 at Sri Jayachamarajendra College of Engineering, Mysuru – 570006.
- 6) GIAN course entitled “**Solid Waste Management – Feasibility of Technology Transfer**” held between 10 – 20<sup>th</sup> February, 2017 at Sri Jayachamarajendra College of Engineering, Mysuru – 570006.
- 7) **Strength based program** for Faculty Development held at Sri Jayachamarajendra College of Engineering, Mysuru – 570006 organized by Brig. Satyendra Kumar during Dec. 2016 – 03 Jan, 2017.
- 8) Two-week GIAN course on “**Sustainable roadways – Design, Construction and Maintenance**” held during 23<sup>rd</sup> July to 3<sup>rd</sup> August 2018 at Sri Jayachamarajendra College of Engineering, Mysuru.
- 9) 1 day workshop on “**Stress management**” under TEQIP-III organized by JSS STU on 28<sup>th</sup> February 2019.
- 10) 1 day workshop on “**Applications in high voltage Engineering**” on 19 June 2019 organized by the department of Electronics Engineering held at JSS STU, Mysuru.
- 11) 1 week FDP on “**Geospatial Technologies**” under TEQIP-III organized by Department of Construction Technology and Management , JSS STU, Mysuru from 15 to 19 July 2019.

- 12) 1 week FDP on **Advanced materials for energy, water and health** held during 22 to 27 July 2019 at SJCE, JSS STU, Mysuru organized by PST and Environmental Engineering.
- 13) 2 day workshop on **Integrated Solid waste management** held during 6 – 7 september 2019 at SJCE, JSS STU, Mysuru.
- 14) Successfully attended awareness program on **Outcome Based Education** on 23 August 2020 organized by department of aeronautical Engineering, MLR Institute of Technology.
- 15) Participated & successfully completed VGST/KSTePS Govt. of Karnataka sponsored FDP on “**Recent Advances in Wastewater Treatment and Recycle**” held from 16<sup>th</sup> to 19<sup>th</sup> November 2021 organized by the Department of Chemical Engineering, SDM College of Engineering and Technology, Dharwad, Karnataka, India.
- 16) Participated and successfully completed the UGC-short term Professional Development Programme under Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching on ‘**Implementation of NEP-2020 for University and College Teachers**’ held from 09-17 September 2022 and obtained 82%.
- 17) Participated in one week online workshop on “**Geospatial Analytics**”, organized by department of Civil Engineering, JSS Academy of Technical Education (JSS ATE), Bengaluru from 26<sup>th</sup> to 30<sup>th</sup> September 2022, sponsored by Karnataka Science and Technology Academy (KSTA), Department of Science and Technology, Government of Karnataka.
- 18) Attended a webinar on **Circularity in Used Water Management** - as a part of IWA India Webinar Series held on 04.03.2023 at 6 pm delivered by Mr. Gaurav Bhatt from Jacobs, Bengaluru, senior Project Manager and Control Accounts Manager – Water Climate Change and Resilience.
- 19) Attended a seminar organised on “**Transformational Role of accreditation for quality enhancement in higher education**” by Dr.Rama Kondapalli, Professor of Practice, Maulana Azad National Urdu University, Hyderabad and Expert Adviser, NAAC is organized by JSS STU, Mysuru on 9th March 2023 from 11:00 am – 01:30 PM.
- 20) Participated in three-day workshop on “**Scholarly Publications: Tools and Techniques**” organized by Library and information center, JSS Science and Technology University, Mysuru from 6th – 8th, January 2023.
- 21) Attended "**Karnataka Sustainability Conclave on Productivity and Green Growth**" at ATI, Mysuru organized by National Productivity Council, DPIT, MoC&I, Gol and Government of Karnataka on 06.07.2023.

- 22) Participated in “**International Symposium on Emerging Materials For Sustainable Energy and Environment**” held at SJCE, JSSSTU, Mysuru organised by Department of Chemistry, On 15th July 2023.
- 23) Participated in Professional Development Program on **The " Secret Sauce " of the Professional Excellence** held on 27th September 2023 organized by Internal Quality Assurance Cell (IQAC), JSS Science and Technology University.
- 24) Attended an awareness workshop on **Air pollution control and road safety challenges and perspectives** in India jointly organized by Department of transport, Mysuru, Govt. of Karnataka in association with Department of Environmental Engineering and Department of Civil Engineering, SJCE, JSSSTU on 24<sup>th</sup> Jan 2024.
- 25) Participated in **Academia - Industry MoU Conclave** held on 19-20 January 2024, at JSS Science and Technology University, Mysuru.
- 26) Participated in 5 day online short term course on “**Computational Methods in Water Resource Engineering and Management**” (COM-WREM:2024) organized by Department of Civil Engineering, National Institute of Technology, Hamirpur, Himachal Pradesh from 01.03.2024 to 05.03.2024.
- 27) Successfully completed **one week Faculty Development program/** short term training program on “**Fundamentals of Machine Learning**“ organized by National Institute of Technical Teachers Training and Research (**NITTTR**), Kolkata from 11<sup>th</sup> March to 15<sup>th</sup> March 2024.
- 28) Successfully completed 8 day “**NEP 2020 Orientation & Sensitization Programme**” under Malaviya Mission Teacher Training Programme (MM-TTP) of University Grants Commission (UGC) Organized by Regional Institute of Education, Mysore (Programme ID - MMC-041-2024-JUN-A-01966) from 3rd June to 11th June, 2024.
- 29) Attended Online user awareness program for JSS Science & Technology University, to demonstrate Springer Nature platforms held on Aug 2, 2024 3:30 PM - 4:30 PM.
- 30) Attended Training Program for Empanelment of Auditors for Auditing of Producers, recyclers and refurbishers registered on the Centralized EPR Portal for Battery Waste Management held on 27 August, 2024 at 3:00 PM through VC mode.
- 31) Participated in the Five-Day National Faculty Development Programme on Research Structuring and Publication Process created and powered by Centre for Research and Training, National Foundation for Entrepreneurship Development (NFED), Coimbatore, Tamil Nadu between 23 – 27<sup>th</sup> June 2025.
- 32) Participated in “Women Wellness Program” on 2<sup>nd</sup> September 2025 organized by Department of Computer Science and Engineering, JSS Science and Technology

University, Sri Jayachamarajendra College of Engineering (Constituent College of JSS Science and Technology University) JSS TI Campus, Mysuru.

- 33) Participated in the 12 Days (Online) Interdisciplinary Refresher Course on Environmental Studies organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC), Central University of Kerala from 06.11.2025 to 19.11.2025 and obtained Grade “A+”.
- 34) Participated in Six Days (Online) Short Term Programme on Sustainable Development Goals organized by UGC-Malaviya Mission Teacher Training Centre (UGC-MMTTC), Central University of Kerala from 23.02.2026 to 28.02.2026 and obtained Grade “A+”.

### **WEBINARS ATTENDED:**

- 1) Attended 1 week online FDP on “**NBA and NAAC Accreditation Process**” Sponsored by **AICTE** organized by IQAC, MSRIT, from 4 – 8<sup>th</sup> June 2020.
- 2) Participated in the **5 day** webinar on “**Mathematical Perspectives on Computational Science and Engineering**” organized by the Department of Mathematics, Ramaiah Institute of Technology, Bangalore-54 held during 6<sup>th</sup> to 10<sup>th</sup> July 2020.
- 3) Participated in International Webinar on **Communicative English Skills for Engineering students and Faculty** held between 28 – 30 June, 2020 organized by MBITS, Kothamangalam.
- 4) Participated in webinar on **Doing Research: Challenges, Do’s and Don’ts** under IQAC, organized by GSSS on 16. 06. 2020.
- 5) Participated in webinar titled “**Conservation of Water**” delivered by Dr. Rajendra Singh and “**Advanced Wastewater Treatment Systems**” delivered by Dr. B Manoj Kumar on Monday 17<sup>th</sup> August 2020 organized in connection with 61<sup>st</sup> birthday celebration of Dr. Rajendra Singh organized by department of Civil Engineering, Vidyavardaka College of Engineering.
- 6) Participated in webinar titled “**Implication of Law in Environmental Engineering**” organized by the Department of Environmental Engineering, sponsored by TEQIP – III on 19<sup>th</sup> August, 2020 at SJCE, Mysuru.
- 7) Participated in the Webinar on “**River Rejuvenation Importance and Issues in Context of Present Scenario & Crisis**” held on 24<sup>th</sup> August 2020 sponsored by TEQIP – III organized by the Department of Environmental Engineering at SJCE, Mysuru.

- 8) Participated in webinar on “**Climate Change and Sustainability**” held on 4<sup>th</sup> June 2020 organized by Department of Civil Engineering, Vidyavardaka College of Engineering.
- 9) Participated in International Webinar on “**How to get grants from UGC, AICTE (Minor and major research projects application process)**” on 9<sup>th</sup> June 2020 jointly hosted by MBITS and SMBS coordinated by S&H department and COVID 19 cell, MBITS.
- 10) Participated in National Webinar on “**AN INSIGHT INTO NATIONAL EDUCATION POLICY (NEP) 2020**” on 23<sup>rd</sup> June 2021 organized by IQAC, MBITS.
- 11) Participated in one-day webinar on “**Water Management in Hilly Areas for Sustainable Development**” jointly organized by Department of Civil Engineering, Indian Institute of Technology Indore, Indian Institute of Technology Jammu and National Institute of Technology Hamirpur on 17<sup>th</sup> December 2021.
- 12) Participated in the webinar on “**Bio-Engineering for Kangsabati River Erosion**” on **31 Aug 2022** organized by **National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India.**
- 13) Participated in the webinar on “**Forest Hazards**” on **29 Nov 2022** organized by **National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India.**
- 14) Participated in the webinar on “**The invisible toxic in air we breathe**” on Jul 26, 2023 3:00 PM - 4:00 PM organized by Markes International company- Schauenburg Analytics Ltd.
- 15) Attended online talk on “**The Challenges in Publishing Research Papers in Reputed Journals**” organized by the NDLI Club of JSS Science and Technology University held on Jan. 23<sup>rd</sup>, 2024.
- 16) Attended online talk on “**The Individual & Institutional Social Responsibilities: Extensional / Outreach Activities for Sustainability & Accreditation**” held on March 28, 2023 organized by the NDLI Club of JSS Science and Technology University.
- 17) Attended online talk on “**The Power of Self Discipline – how to stay focused and achieve success**” organized by NDLI Club of Library and Information Centre, JSS STU/SJCE on April 3<sup>rd</sup> 2024 at 11 am.
- 18) Attended online talk on “**From Concept to Creation: The Power of Idea Generation and Creativity in Engineering**” organized by NDLI Club of Library and Information Centre, JSS STU/SJCE on September 18<sup>th</sup> 2024 at 3 pm.
- 19) Attended online talk on “**The Significance of i10 and h Index in Research**” held on Feb. 17, 2025 organized by the NDLI Club, JSS Science and Technology University.

20) Active participation in the online World Environment Day Quiz, 2025 conducted by CPCB Regional Directorate Bengaluru during 1<sup>st</sup> to 5<sup>th</sup> June, 2025.

### **Participation in SOCIETAL PROGRAMS:**

- 1) Co-coordinator of awareness campaign on 'Beat Plastic Pollution' for school children of 7th to 9th standard, JSS Public School on 05/11/2019 at 1:30 pm organized as part of the Swachhata Hi Seva 2019 programme.
- 2) Participated in celebration of "World Environment Day" – 2020 on June 5th, Friday in JSS S&TU campus, Mysuru including activities like online talk by Dr. K. S. Lokesh, Registrar, JSS S&TU, regarding biodiversity, its importance and how anthropogenic activities caused biodiversity decline, followed by saplings plantation in the premises of Environmental Engineering.
- 3) As a SAP committee member, organized SWACHCHTTA CLEANLINESS DRIVE AS A PART OF SWACHCHTTA PAKHWADA, 2021 where students pursuing their M.Tech. in Environmental Engineering volunteered and actively participated in the cleanliness drive in and around the department which was conducted on 3rd September 2021 from 11.00 am to 12.00 noon.
- 4) Participated in Hinkal Lake Cleaning Campaign being organized as part of World Environmental Day-2022 held on 2nd July with the concept of " ONLY ONE EARTH – Living Sustainably in Harmony with Nature".
- 5) Participated in "Ek Tareekh-Ek Ghanta" program conducted as a part of 'Swachhata Pakhwada-Swachhata Hi Sewa (SHS) 2023', a massive cleanliness drive as a tribute to Mahatma Gandhi on the eve of his birth anniversary held on 1st Oct. 2023 between 10 am to 11 pm, Venue - Street outside the JSS TI campus (from AIISH to Kannan Bakery).
- 6) Successfully participated in 21 day meditation challenge with Gurudev Sri Sri Ravi Shankar from 2<sup>nd</sup> to 22<sup>nd</sup> Jan 2024.
- 7) Participated in lake cleaning program: As part of World Environment Day 2024, Panaganga Lake Cleaning Programme was organized jointly by the District Administration, KSPCB (Rural & Urban), Town Municipal Office, Hootagalli, JSSSTU, MIT & Madilu Education and Rural Development Trust, Mysore between 7.00 am to 11.30 am at Hootagalli.

### **Field visits:**

- 1) With Environmental Engineering Department staff, visited the Infosys campus at Mysuru on 14/02/2023 at 2.30 PM where areas such as training centres, development centres, learning centres, accommodation facilities, food courts, sports facilities, gym and fitness facility, shopping facility, transport and parking

facility and so on were covered. The main objective of the visit was to know about the best practices followed for waste management.

- 2) With Environmental Engineering Department staff and M.Tech students, visited the M/s Asian Paints located at Immavu Village of nanjangud taluk in Mysuru district on 10.08.2023 at 11.00am.
- 3) With Environmental Engineering Department staff and M.Tech students, visited the M/s Reid & Taylor located at Thandya Industrial Area, Thandavapura, Nanjangud taluk in Mysuru district on 10.08.2023 at 03.00PM.
- 4) With 46 students of 6<sup>th</sup> semester, Mr. Madhukar M, Assistant Engineer, MCC, Mysuru and Mr. Chandrashekar B visited Zero Waste Management (ZWM) Plant at Kumbara Koppal, Kesare Solid Waste Treatment Plant, Mysuru, Jagruth Tech Pvt. Ltd., Mysuru and Global Integrating Professional Services (Biomedical waste management plant) on 15th December 2023.

### **GREEN AUDITS:**

- 1) Green Audit – JSS College of Arts, Commerce and Science, Ooty Road, Mysuru (13 and 14<sup>th</sup> Feb, 2019) – Team members (Dr. T H Udayashankara, Dr. Sadashiva Murthy B M, Dr. Istalinga Murthy D, Mr. Shiva Kumar B P and Mrs. Sahana M).
- 2) Green Audit – JSS College of Arts, Commerce and Science, Ooty Road, Mysuru (December, 2021) – Team members (Dr. B Manoj Kumar, Dr. Pushpa Tuppad, Mrs. Thanushree M S, Mrs. Sahana M and Dr. Vishistta Nagaraj).
- 3) Green Audit, JSS Law College, Mysuru (July, 2022) – Team members (Dr. Pushpa Tuppad, Mrs. Savitha Ulavi and Mrs. Sahana M).

### **RESEARCH AND DEVELOPMENT PROJECTS**

- 1) **VGST, Bangalore:** A novel treatment method for complete disinfection and removal of organics from hospital wastewaters using Batch Electro-chemical Coagulation (BECC); sponsored by VGST (Ref: VGST/P-10/SPiCE/2011-2012/1069), Bangalore for an amount of 30,000/- for a duration of 5 months (Nov 2011 – March 2012).
- 2) Collaborative R & D Project under TWINNING SYSTEM Item 6 (b & d) under TEQIP – III for The Mentee Institute at MLV Textile Engineering College, Bhilwara, Rajasthan for treatment of Textile Industrial wastewaters and sludge related aspects using the advanced electrochemical treatment system for water reclamation. After several exchange of information and detailed discussions over mail between the Mentor institution and Mentee Institution, Dr V.K Gupta of MLV college of Engineering, Bhilwara, agreed to have a joint R & D to work at laboratory scale over the use of an

advanced and quick treatment of Textile wastewaters using a 'hybrid system' at the Environmental Department of JSS S&TU, Mysuru.

Team Members – Dr. S. Mahesh, Mrs. Thanushree M. S., **Mrs. Sahana M.**, Mr. Shivaprasad K.S and Mr. Sujith Singh. Total project expenditure: ~ Rs. 22,000

- 3) SEED MONEY for FACULTY RESEARCH PROJECT – TEQIP-III, for carrying out research on a novel treatment technology (ECC) for removal of pollutants from healthcare facility wastewaters, contaminated water and other wastewaters. Research title: 2 Dimensional and 3 Dimensional ECC treatment for healthcare facility and other wastewaters.

Team Members – **Mrs. Sahana M.** and Dr. S. Mahesh, Total project expenditure: Rs. 19,371.40

- 4) R&D project entitled “**Determination of Micro plastics in contaminated soil and Removal**”. Guides: Dr. S Mahesh and **Sahana M**, Applicants: Nisarga K Gowda, Rashmi R Kattimani and Triveni R. Total Grant sanctioned: Rs. 29,500 by The Institute of Engineers (India).

Prepared a proposal to conduct a '7 day Refresher Course' in the department on the module “Operation and Maintenance of Storm Water Drainage Systems” and submitted to Ministry of Housing & Urban Affairs, CPHEEO, New Delhi on Dec 4th 2025.

### **RESEARCH PUBLICATIONS:**

#### **(A) International referred journals**

1. Shruthi M, Mahesh S, Sahana M. Removal of Arsenic from Groundwater using Electrochemical Coagulation Process. International Journal of current Engineering and Technology. **2013**; 24 - 26.
2. Mahesh S, Sahana M, Mahesh S. Batch ECC for removal of organics hospital waste streams. International Journal of Civil Engineering and Technology. **2014**; 5 (9), 34 – 42.
3. Krishna B M, Nagabhushana B M, Anitha S, Sahana M. Color removal from textile wastewaters using CuO nano-particles coated on Sand, Cinder and GAC. International Journal of Civil Engineering and Technology. **2014**; 5(9), 79 – 84.
4. Sahana M., Srikantha H., Mahesh S. and Mahadeva Swamy M. Coffee processing industrial wastewater treatment using batch electrochemical coagulation with stainless steel and Fe electrodes and their combinations, and recovery and reuse of sludge. J. of Water Science and Technology. 2018 (79), 279 – 289.

5. Shruthi M, Mahesh S, Sahana M. Simultaneous Removal Of Arsenite And Fluoride From Groundwater Applying Electrochemical Coagulation Using Fe And Al Electrode Combinations- Sludge Characterization. IOSR Journal of Engineering (IOSRJEN), 2018, ISSN (e): 2250-3021, ISSN (p): 2278-8719, Vol. 08, Issue 11, PP 34-43.
6. Srikantha H, Mahesh S and Sahana M. CuO Coated Electrochemically Generated Textile Wastewater Sludge and CuO Coated GAC as Potential Nano-adsorbents for Color Removal from Real Textile Wastewater. J. of Oriental Journal of Chemistry. 2018, Vol. 34, No.(4): Pg. 2144-2151.
7. Sujit Singh, Shivaswamy Mahesh, Mahesh Sahana, K.M. Puneeth. Treatment of healthcare facility wastewaters by two dimensional (2D) electrochemical coagulation (ECC), settling and filterability aspects. Journal of Water Process Engineering, Elsevier, 2018, Vol. 26, Pg. 200 – 220.
8. Srikantha H, Mahesh S, Sahana M. Optimization of batch electrochemical coagulation for treatment of real textile wastewater using stainless steel electrodes by CCD of RSM. Desalination and Water Treatment. 2019, (146), 85 – 97.
9. H.N. Hemalathaa, S. Mahesh, S. Nanjunda Swamy, M. Sahana. Hybrid dual treatment of real textile wastewater using electrochemical treatment (ECT) and membrane bioreactor (MBR), J. of Desalination and Water Treatment, 2019, 140, 50–57.
10. Shruthi M, Mahesh S, Sahana M, Srikantha H. Arsenite removal mechanism from groundwater in a two-dimensional batch electrochemical treatment process. Desalination and Water Treatment. 2019, (146), 266 –277.
11. Singh S, Mahesh S, Sahana M. Three-dimensional batch electrochemical coagulation (ECC) of healthcare facility wastewater-clean water reclamation. Springer journals: Environmental Science and Pollution Research. 2019, 26(13), 12813-12827. (IF: 3.0).
12. Hanumanthappa Srikantha, Mahesh Shivaswamy and Sahana Mahesh. Batch electrochemical coagulation of real textile wastewater using Cu-SS and SS-Cu electrode combinations and its settleability aspects, Journal of Water Science and Technology, 2020, 82.7, PP 1467 – 1483. (IF: 1.53).
13. Mahesh Shivaswamy, Nisarga K. Gowda & Sahana Mahesh. Identification and removal of microplastics from contaminated semi-urban agricultural soil using electrochemical treatment technology. *Chem. Pap.* (2022). <https://doi.org/10.1007/s11696-022-02615-0>
14. Mahesh Shivaswamy, Nisarga K. Gowda & Sahana Mahesh. Identification of microplastics (MPs) from urban informal solid waste landfill soil; MP

- associations with COD and chloride, J. of Water Science and Technology (2022), IWA Publishing, doi: 10.2166/wst.2022.412
15. Singh S, Mahesh S, Sahana M. Hybrid Treatment of Hospital Wastewater Combining Continuous Flow Electrochemical Coagulation Coupled with Adsorption, 2023, J. of Water Air Soil Pollution, Vol.: 234:107 <https://doi.org/10.1007/s11270-023-06083-4>
  16. Thanushree M S ,Mahadevaswamy Mahadevappa, Mahesh Shivaswamy, Sahana Mahesh and Chiranth Premanandasagar. Electrochemical treatment of real cotton fabric industry wastewater using copper and stainless steel electrodes, J. of Water, Sanitation and Hygiene for Development doi: 10.2166/washdev.2023.209
  17. Shivaprasad, K. S., Mahesh, S., & Sahana, M. (2023). Hospital wastewater treatment coupling electrochemical coagulation and activated sludge process. *Journal of Water, Sanitation and Hygiene for Development*, 13(9), 655-668. (scopus) IF 1.786
  18. Mahesh Sahana, Krishna Benamanahalli Motaiah, Mahesh Shivaswamy, Vikram Kumar Jain Shanthilal, Pushpa Tuppad, and P. C. Srinivas. "Electrochemical coagulation of raw dental wastewaters using copper electrodes." *Brazilian Journal of Chemical Engineering* (2025): 1-13. <https://doi.org/10.1007/s43153-025-00556-1>, Q3 quartile, IF 1.5.
  19. Mahesh, Sahana, Krishna Benamanahalli Motaiah, Mahesh Shivaswamy, Manasvi Nandigunda Subramani, and Vikram Kumar Jain Shanthilal. "Dental wastewater treatment using electro-chemical coagulation unit process." *Separation Science and Technology* 60, no. 9-10 (2025): 1171-1188. <https://doi.org/10.1080/01496395.2025.2483761>, Q2 quartile, IF 2.3.
  20. Sahana, M., Krishna, B. M., & Mahesh, S. (2025). Raw Dental Wastewater Treatment by Electro-Chemical Coagulation Using Copper and Stainless Steel Electrodes: A Comparative Study. *International Journal of Environmental Research*, 19(6), 275. <https://doi.org/10.1007/s41742-025-00941-1>, Quartile 2, IF 3.5.

### **Indian Journals**

1. Hemalatha H.N, Mahesh S, Nanjundswamy S and Sahana M. Removal of organics from real silk textile wastewater using electrochemical coagulation. J. of Indian Water Works Association. 2018; 40 – 46.

### **(B) Publications in books**

1. Anitha S, Krishna B M, Nagabhushana B M, Sahana M, Mahesh S. Nano CuO as adsorbent for color removal from textile wastewater. Strategic technologies of Complex environmental Issues – A sustainable approach. Edited by Prof. Govind Chandra Mishra; Excellent publishing house, New Delhi. ISBN: 978-93-83083-85-5; **2014**, 7 – 12.

### **INTERNATIONAL CONFERENCES:**

1. Hemalatha H N, Mahesh S, Sahana M, Syed I P, Anitha S, Nanjunda Swamy S. Water reclamation by ECC of Textile wastewater. Fifth World Aqua Congress (Vol. II), (Adaptive and Integrated Water Management), held between 16-18<sup>th</sup> November, at New Delhi, India, 276 – 290, **2011**.
2. Sahana M. International Conference and Exhibition on Integrated Water, Wastewater and Isotope Hydrology (ICW-WWISH- 2013) held during 25 – 27 July **2013**; organised by Civil Engineering Department, Bangalore, Karnataka, India.
3. Sahana M. **Nano CuO as Adsorbent for Color Removal from Textile Wastewater**. International Conference on Energy Technology, Power Engineering and Environmental Sustainability (ETPEES – 2014) held during 21 – 22 June 2014; organised by Jawaharlal Nehru University, New Delhi.
4. Afsar Pasha, Sahana M, Mahesh S. **Batch treatment of grey water and black water fractions using ECC**, (CV 132). Proceedings of the 2<sup>nd</sup> International Conference on Current trends in Engineering and Management (ICCTEM) – **2014**, 17 – 19 July 2014, Mysuru, Karnataka, India.
5. Manjunath S V, Sahana M, Mahesh S. **Post ECC settling and Filterability studies of slaughter house wastewater**, (CV 117). Proceedings of the 2<sup>nd</sup> International Conference on Current trends in Engineering and Management (ICCTEM) – **2014**, 17 – 19 July 2014, Mysuru, Karnataka, India.
6. Mahesh S, Sahana M, Mahesh S. **Batch ECC for removal of organics from hospital waste streams**, (CV 119). Proceedings of the 2<sup>nd</sup> International Conference on Current trends in Engineering and Management (ICCTEM) – **2014**, 17 – 19 July 2014, Mysuru, Karnataka, India.
7. Mahesh S, Sahana M. **Electrochemical treatment for removal of organics from Health care wastewaters and water reclamation**. International Conference on Electrochemical Science and Technology (ICONEST) – 2014; August 7 – 9, 2014; organised by Electrochemical Society of India, IISc, Bengaluru, India.
8. Shilpa S, S Mahesh, Sahana M, Mahadevaswamy M. **Kitchen Sink wastewater treatment using Batch Electrochemical Coagulation**. International Journal of Advanced Research in Education and Technology (IJARET) – Jan – March 2016.

9. Nisarga K Gowda, Rashmi R Kattimani, Triveni R, Mahesh S, Sahana M. Identification of Microplastics in Contaminated Urban Informal Landfill Soil With Removal Methods. International Journal of Engineering Research & Technology (IJERT), ICEI - 2022 Conference Proceedings, ISSN: 2278-0181.
10. Sahana M, B M Krishna and S Mahesh. “**Characterization of ECC generated Sludge for Beverage Industrial Wastewater**” in 2<sup>nd</sup> International Conference on “Advanced Materials for Health, Energy and Environment” during 28<sup>th</sup> February – 2<sup>nd</sup> , March, 2023 at JSS STU, Mysore, India.
11. Sahana Mahesh\*, Krishna Benamanahalli Motaiah, Mahesh Shivaswamy. Sahana M presented paper entitled “Electrochemical Degradation of Raw Two Wheeler Service Station Wastewater” in the 2nd International Conference on Engineering and Technological Innovation for Sustainable Development (ICETISD 2025) organized by Faculty of Engineering & Technology (FET), Poornima University, Jaipur on April 24-26, 2025.

#### **NATIONAL CONFERENCES AND SEMINARS:**

1. Shruthi M, Mahesh S, Sahana M, Anitha S, Syed Imran Pasha. **Batch Electrochemical Coagulation for removal of excess fluoride from ground water**. Twenty seventh National Convention of Environmental engineers, Institution of Engineers (India), on the Theme ‘Green Technology’, Mangalore, India, 24-25<sup>th</sup> January **2012**.
2. Anupama S, Sahana M, Mahesh S. (ID: CV-135) **Treatment of Textile wastewater for water reclamation using Batch Electrochemical Coagulation (BECC)**. National Conference on Recent Advancements in Engineerign (NCRAE 2012). Sanjeevan Engineering and Technology Institute, Panhala, Kolhapur, Maharashtra., 22-23 June **2012**, Vol 1, 311-313.
3. Noor Muddassir Khan, Mahesh S, Sahana M. **Batch Electrochemical degradation of three agri-based industrial waste streams for removal of COD and water reclamation**. National Conference on Environmental sustainability and society: The growing paradigm shift (ESS – 2013); Department of Civil Engineering, Jaypee University of Engineering and Technology, Raghogarh – Guna (MP). March 30 – 31, **2013**, 75.
4. Mahesh S, Sahana M. **Electrochemical treatment Technology for Remediation of Industrial waste streams and Water reclamation (OP 14)**. Two days National Conference on Recent Trends in Chemical Research (NCRTCR) – organized by the Department of Chemistry, SJCE, JSSTIC, Mysuru, held from 03-04 January **2014**, 17.

5. Vivek L, Mahesh S, Sahana M. **Batch electrochemical coagulation (ECC) for removal of organics from health care wastewater** – OP 601. National conference on Recent advancements in Infrastructure development (RAID 2015) on 25-27 March **2015**; organised by the Department of Civil Engineering, JSS ATE, Bengaluru, Karnataka, India.
6. Shilpa S, Mahesh S, Sahana M. **“Grey water treatment using batch electrochemical coagulation (BECC)”** – OP 602. National conference on Recent advancements in Infrastructure development (RAID 2015) on 25-27 March **2015**; organised by the Department of Civil Engineering, JSS ATE, Bengaluru, Karnataka, India.
7. Presented in 35<sup>th</sup> National Convention of Environmental Engineering & National Conference on “Green Technology for Clean and Green India” entitled **“Pre-treatment of Coffee Wastewater treatment using 2D-3D Electrochemical Treatment”** - (team – Sahana M and Mahesh S) held on 17 and 18<sup>th</sup> August, 2019 organized by Institute of Engineers, Bangalore.
8. Presented as a team in 35<sup>th</sup> National Convention of Environmental Engineering & National Conference on “Green Technology for Clean and Green India” entitled **“Removal of organics from real silk textile wastewater using 2D electrochemical coagulation”** - (team – Hemalatha H N, Mahesh S, Nanjundaswamy S and Sahana M) held on 17 and 18<sup>th</sup> August, 2019 organized by Institute of Engineers, Bangalore.
9. Presented as a team in 35<sup>th</sup> National Convention of Environmental Engineering & National Conference on “Green Technology for Clean and Green India” entitled **“Electrochemical coagulation and disinfection of hospital wastewater”** - (team –Sujit Singh, Mahesh S, and Sahana M) held on 17 and 18<sup>th</sup> August, 2019 organized by Institute of Engineers, Bangalore.
10. Presented as a team in 35<sup>th</sup> National Convention of Environmental Engineering & National Conference on “Green Technology for Clean and Green India” entitled **“Rainwater harvesting from micro catchments in public Institutions”** - (team –Mahesh S, Anitha C, Sahana M, Inchara K Swamy and Varsha K B) held on 17 and 18<sup>th</sup> August, 2019 organized by Institute of Engineers, Bangalore.

### **MEMBERSHIP:**

- 1) **Lifetime Associate Member (AMIE) in Institution of Engineers India (IEI)** from December 2021.

**TECHNICAL SKILLS:** C, C++, AUTOCAD 2010.

## UG Final Year Project work and PG Dissertation Work Guidance:

UG	PG
<ul style="list-style-type: none"> <li>Analysis of ECC generated sludge from 3 Agro-based industrial effluent for possible Reuse – Diya Dechamma, Pooja and Lokeshwari (2017 – 18).</li> </ul>	<ul style="list-style-type: none"> <li>Electrochemical disinfection of two health care wastewaters using different 2D electrodes - Comparative study - Harshitha P, M.Tech. in Environmental Engineering (2017 – 18).</li> <li>Permeable Pavements using Inert solid waste materials for storm water management – Anirudh K J, M.Tech. in Environmental Engineering (2017 – 18).</li> </ul>
<ul style="list-style-type: none"> <li>Heavy metal recovery from steel manufacturing rinse water using chemical methods – Vyju Vismitha D, Bala Abhirami V, Thanmaya D S and Ganesh P (2018 – 19).</li> <li>3D ECC treatment of hospital wastewater using waste metals as electrodes – Harshitha M, Anusha G S, Shivamma and Mysur Shankramma (2018 – 19).</li> </ul>	<ul style="list-style-type: none"> <li>Textile wastewater treatment using Nano coated ECC generated sludge – Sandesh B N, M.Tech. in Environmental Engineering (2018 – 19).</li> </ul>
<ul style="list-style-type: none"> <li>“Pollution Potential of Leaking Underground Storage Tank (L.U.S.T) in Selected Planning Districts of Mysuru City”, Shivani N. Hampe (01JST16EV036), Pooja Suman R (01JST16EV028), Nitheesh Raj M G (01JST16EV025) and Varshini N (01JST16EV051), B.E., 2019 – 20.</li> </ul>	<ul style="list-style-type: none"> <li>“Conversion of Different Types of Food waste to Bio-plastics”– KHATIJAT UL HURRA, USN:01JST18EV009, M.Tech., in Environmental Engineering (2019 – 20).</li> </ul>
<ul style="list-style-type: none"> <li>“Bricks from complete waste: The challenging and beginning of change”, Farhan Ahmed I A (01JST17EV012), Hamsapriya H L (01JST17EV013), Sangeetha S (01JST17EV037) and Samiulla Khan (01JST18EV406), B.E., 2020 – 21.</li> </ul>	<ul style="list-style-type: none"> <li>“Settling and Filterability of Post ECC Slurry of two Beverage Industrial Wastewaters”– LIKITHA M. P. (01JST19PEV012), M.Tech., in Environmental Engineering (2020 – 21).</li> <li>“Electrochemical Treatment of Temple Wastewater”– DIVYA K L (01JST19PHS003), M.Tech., in Health science and water Engineering (2020 – 21).</li> </ul>

	<ul style="list-style-type: none"> <li>• “Characterization of Selected Industrial Sludges for Logical Disposal”– KARTHIK N S (01JST19PEV011), M.Tech., in Environmental Engineering (2020 – 21).</li> </ul>
<ul style="list-style-type: none"> <li>• “Treatment of Service Station Wastewater by using Electro-chemical Coagulation”, Shiva Prasad S (01JST18EV032), Shilpa S (01JST18EV031), Sowndarya V (01JST18EV037) and Gaddeppa Muthya (01JST19EV401), B.E., 2021 – 22.</li> </ul>	<ul style="list-style-type: none"> <li>• “Electrochemical Treatment of Dental Wastewater”– MANASVI N S (01JST20PEV008), M.Tech., in Environmental Engineering (2021 – 22).</li> <li>• “Electrochemical Treatment of Fabric Industrial Wastewater and Sludge Analysis”– CHIRANTH P (01JST20PEV002), M.Tech., in Environmental Engineering (2021 – 22).</li> </ul>
<ul style="list-style-type: none"> <li>• Ayurvedic Pharmaceutical Wastewater Treatment Using Electrochemical Coagulation. Dhavala (01JST19EV014), Varshini M B (01JST19EV047), Pooja M (01JST19EV030), Bhoomika T K (01JST19EV009), B.E., 2022 – 2023.</li> </ul>	<ul style="list-style-type: none"> <li>• “Treatment of Vehicle Service Station Wastewater using Electrochemical Coagulation”. CHIDANAND SURESH LAD, USN: 01JCE21PEV003, Master of Technology in Environmental Engineering.</li> <li>• “Electrochemical Coagulation Treatment of Dental Clinic Wastewater and Sludge Analysis”. PAVAN REDDY M, USN: 01JST21PHS002, Master of Technology in Health Sciences and Water Engineering.</li> </ul>
<ul style="list-style-type: none"> <li>• Ice-cream manufacturing wastewater treatment using Electrochemical Coagulation. Chandana H Kumbar (01JST20EV007), Chitra S (01JST20EV010), Preetham L R (01JST20EV034), B.E., 2023 – 2024.</li> </ul>	<ul style="list-style-type: none"> <li>• “Restaurant Wastewater Treatment using Batch Electrochemical Coagulation”. Sushma K J, USN: 02JST22PEV016, Master of Technology in Environmental Engineering.</li> <li>• “Bioremediation Strategies for Potentially Toxic Elements in Soil: Harnessing the Remediation Potential of Black Soldier Fly Larvae”. SANTHOSH S, USN: 02JST22PEV012, Master of Technology in Environmental Engineering.</li> </ul>

### **Department and Administration Activities**

- DPGC Member (from 2017 to 2022)
- DUGC Member (from 2025 to till date)
- Department Information Coordinator (2018 – 2024)
- Nominated as department Placement office coordinator on 20<sup>th</sup> May 2024.
- Swachhitta Action Plan (SAP) Committee Member
- Department website (JSS STU and SJCE – Data collection and formatting)
- Stock verification of various departments (2021 – E& I), (2022 – CS), 2022 - Library.
- Newsletter preparation of 2020, 2021, 2022 and 2023.
- Active participation in departmental NBA related and NAAC work.
- Program file for NBA (UG and PG) – P17 - List of program specific labs and computing facility within department and P18 - List of non-teaching staff with their appointment letters etc.
- Laboratory manual team member for – Water Quality Analysis Laboratory
- ARIIA department data collection, 2021, 2022
- KSHEC department data collection, 2021, 2022, 2023
- Admin for 5<sup>th</sup> and 6<sup>th</sup> semester, UG – 2020 - 2021
- Admin for 7<sup>th</sup> and 8<sup>th</sup> semester, UG – 2021 – 2022
- Admin for 3<sup>rd</sup> and 4<sup>th</sup> semester, UG – 2022 - 2023
- Admin for 5<sup>th</sup> semester, UG 2023
- QS I-GAUGE department coordinator, 2023
- NAAC Criteria 7 department level coordinator
- Faculty mentor in Group 2 for Student Induction Programme 2023-24 held from 11<sup>th</sup> September to 25<sup>th</sup> September 2023.
- Green Metric Awards 2025 data collection - team member for the metric Waste Management (Oct – Nov 2025).
- Data collection and consolidation (Nov 2023 to Jan 2024) for 107<sup>th</sup> meeting of governing body.
- Departmental coordinator for national level IKS exam (2026)

I hereby declare that all the above statements made by me are true and correct to the best of my knowledge.

(Sahana M)