

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

NAME	:	SAHANA. M
DATE OF BIRTH	:	May 19, 1992
RESIDENTIAL ADDRESS	:	#136, 3 rd cross, Siddalingeshwara Layout, J P Nagar, Mysuru - 570008.
OFFICIAL ADDRESS	:	Mrs. SAHANA M, Assistant Professor Department of Environmental Engineering, Sri Jayachamarajendra College of Engineering, JSS S&TU, JSS TIC Campus, Mysuru.
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EDUCATIONAL QUALIFICATION	:	B.E., Environmental Engg., SJCE, Mysuru (Secured 3 rd Rank) M.Tech., Environmental Engg., SJCE, Mysuru (Secured 1 st Rank)

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

Year	Code	Subject
<u>2017 – 2018</u> <u>Odd Semester</u>	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
(PG) Environmental Engineering	EVE110	Applied Environmental Microbiology
<u>2018</u> <u>Even semester</u>	EV450	Geology & Geo-Technical Engineering
	HU420	Environmental Studies for Biotechnology
	EV47L	Environmental Fluid Mechanics Lab – 3 Batches
	EV68L	Environmental Process Lab II - 1 Batch
<u>2018 – 2019</u> <u>Odd Semester</u>	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
2019 <u>Even semester</u>	EV420	Environmental Microbiology and Ecology
	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
<u>Even Semester</u>	EV410	Environmental Microbiology and Ecology
	HU420	Environmental Studies for CTM and IP
	EV46L	Environmental Microbiology Lab
<u>M.Tech.</u>	EVH170	Physico-chemical processes Laboratory (HSWE)
<u>Odd Semester</u>	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
<u>Even Semester</u>	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
<u>Odd Semester</u>	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
<u>Even Semester</u>	20EV440	Geology and Geotechnical Engineering

Year	Code	Subject
	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
(PG) Environmental Engineering	EVE220	Environmental Legislation and Impact Assessment

Ph. D: Registered in the Year 2020 and cleared the course work at first attempt in August 2021 and pursuing the work under the guidance of Dr. B M Krishna, Associate Professor, Department of Environmental Engineering, JSS S&TU, SJCE, Mysuru.

ONLINE CERTIFICATION COURSES:

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.

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.

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 7th – 11th 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 31st August to 4th September, 2016.
- 4) One-Day National Level Workshop on “**Bloom’s Taxonomy: A Taxonomy for Accreditation**” held on 28th July, 2017, organized by Ramaiah Institute of Technology, Bangalore – 560054.
- 5) GIAN course entitled “**Energy, Sustainability and Life cycle Risk Analysis**” held between 13th – 28th February, 2017 at Sri Jayachamarajendra College of Engineering, Mysuru – 570006.
- 6) GIAN course entitled “**Solid Waste Management – Feasibility of Technology Transfer**” held between 10 – 20th 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 23rd July to 3rd August 2018 at Sri Jayachamarajendra College of Engineering, Mysuru.
- 9) 1 day workshop on “**Stress management**” under TEQIP-III organized by JSS STU on 28th 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.

WEBINARS ATTENDED:

- 1) Attended 1 week online FDP on “**NBA and NAAC Accreditation Process**” Sponsored by **AICTE** organized by IQAC, MSRIT, from 4 – 8th 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 6th to 10th 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 17th August 2020 organized in connection with 61st 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 19th August, 2020 at SJCE, Mysuru.
- 7) Participated in the Webinar on “**River Rejuvenation Importance and Issues in Context of Present Scenario & Crisis**” held on 24th 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 4th 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 9th June 2020 jointly hosted by MBITS and SMBS coordinated by S&H department and COVID 19 cell, MBITS.
- 10) Successfully attended awareness program on **Outcome Based Education** on 23 August 2020 organized by department of aeronautical Engineering, MLR Institute of Technology.
- 11) Participated in National Webinar on “**AN INSIGHT INTO NATIONAL EDUCATION POLICY (NEP) 2020**” on 23rd June 2021 organized by IQAC, MBITS.
- 12) 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 17th December 2021.
- 13) Participated & successfully completed VGST/KSTePS Govt. of Karnataka sponsored FDP on “**Recent Advances in Wastewater Treatment and Recycle**” held from 16th to 19th November 2021 organized by the Department of Chemical Engineering, SDM College of Engineering and Technology, Dharwad, Karnataka, India.

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”.

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

GREEN AUDITS:

- Green Audit – JSS College of Arts, Commerce and Science, Ooty Road, Mysuru (13 and 14th 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).
- 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).
- 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).

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. Hemalatha, 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).

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 16-18th 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 2nd 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 2nd 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 2nd 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.

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, 24-25th 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 35th 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 18th August, 2019 organized by Institute of Engineers, Bangalore.
8. Presented as a team in 35th 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 18th August, 2019 organized by Institute of Engineers, Bangalore.

9. Presented as a team in 35th 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 18th August, 2019 organized by Institute of Engineers, Bangalore.
10. Presented as a team in 35th 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 18th 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"> • Analysis of ECC generated sludge from 3 Agro-based industrial effluent for possible Reuse – Diya Dechamma, Pooja and Lokeshwari (2017 – 18). 	<ul style="list-style-type: none"> • Electrochemical disinfection of two health care wastewaters using different 2D electrodes - Comparative study - Harshitha P, M.Tech. in Environmental Engineering (2017 – 18). • Permeable Pavements using Inert solid waste materials for storm water management – Anirudh K J, M.Tech. in Environmental Engineering (2017 – 18).
<ul style="list-style-type: none"> • 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). • 3D ECC treatment of hospital wastewater using waste metals as 	<ul style="list-style-type: none"> • Textile wastewater treatment using Nano coated ECC generated sludge – Sandesh B N, M.Tech. in Environmental Engineering (2018 – 19).

<p>electrodes – Harshitha M, Anusha G S, Shivamma and Mysur Shankramma (2018 – 19).</p>	
<ul style="list-style-type: none"> • “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. 	<ul style="list-style-type: none"> • “Conversion of Different Types of Food waste to Bio-plastics”– KHATIJAT UL HURRA, USN:01JST18EV009, M.Tech., in Environmental Engineering (2019 – 20).
<ul style="list-style-type: none"> • “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. 	<ul style="list-style-type: none"> • “Settling and Filterability of Post ECC Slurry of two Beverage Industrial Wastewaters”– LIKITHA M. P. (01JST19PEV012), M.Tech., in Environmental Engineering (2020 – 21). • “Electrochemical Treatment of Temple Wastewater”– DIVYA K L (01JST19PHS003), M.Tech., in Health science and water Engineering (2020 – 21). • “Characterization of Selected Industrial Sludges for Logical Disposal”– KARTHIK N S (01JST19PEV011), M.Tech., in Environmental Engineering (2020 – 21).
<ul style="list-style-type: none"> • “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. 	<ul style="list-style-type: none"> • “Electrochemical Treatment of Dental Wastewater”– MANASVI N S (01JST20PEV008), M.Tech., in Environmental Engineering (2021 – 22). • “Electrochemical Treatment of Fabric Industrial Wastewater and Sludge Analysis”– CHIRANTH P (01JST20PEV002), M.Tech., in Environmental Engineering (2021 – 22).

Department and Administration Activities

- DPGC Member (from 2017 to 2022)
- Department Information Coordinator
- Swachchta Action Plan (SAP) Committee Member from
- Department website (JSS STU and SJCE – Data collection and formatting – July to August 2022)
- Stock verification of various departments (2021 – E& I), (2022 – CS).
- Newsletter preparation of 2020, 2021 and 2022.
- Syllabus framing and modification for BOS, 2022 – 6th semester (team - Dr. Pushpa Tuppad, Mrs. Savitha Ulavi and Mrs. Sahana M)
- 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.
- ARIIA department data collection
- KSHEC department data collection
- Admin for 5th and 6th semester, UG – 2020 - 2021
- Admin for 7th and 8th semester, UG – 2021 - 2022

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

(Sahana M)