

JSS MAHAVIDYAPEETHA
JSS SCIENCE AND TECHNOLOGY UNIVERSITY
SRI JAYACHAMARAJENDRA COLLEGE OF ENGINEERING



DEPARTMENT OF ENVIRONMENTAL ENGINEERING

ECO EXPRESS

YEARLY MAGAZINE 2025



“REACHING FOR THE STARS: INDIA’S SPACE JOURNEY”

WHY WE CHOSE THE SPACE THEME?

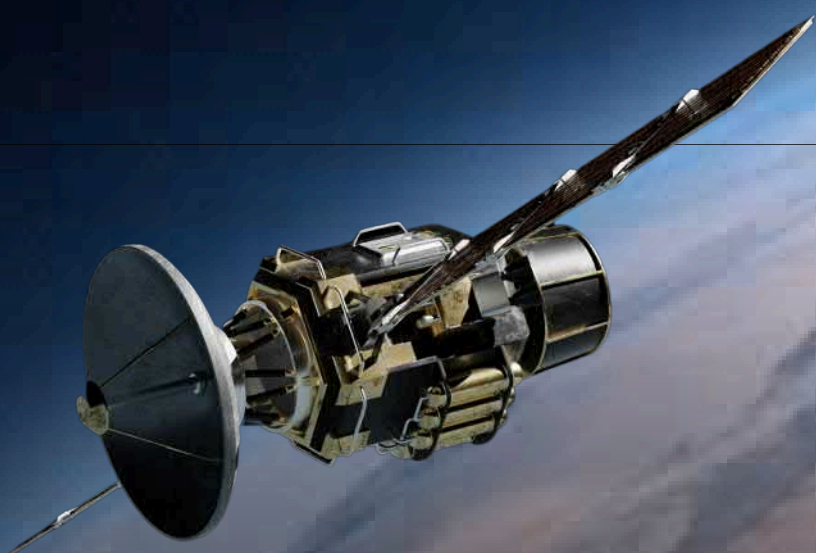
SPACE REPRESENTS CURIOSITY, INNOVATION, AND THE COURAGE TO DREAM BEYOND LIMITS.

OUR MAGAZINE EMBRACES A SPACE-THEMED EDITION TO HONOUR THE REMARKABLE ACHIEVEMENTS OF THE INDIAN SPACE RESEARCH ORGANISATION (ISRO), WHICH HAVE PLACED INDIA AMONG THE WORLD’S LEADING SPACE-FARING NATIONS.

ISRO’S JOURNEY REFLECTS HOW SCIENTIFIC EXCELLENCE, DEDICATION, AND INDIGENOUS INNOVATION CAN TRANSFORM AMBITIOUS DREAMS INTO REALITY. BY CHOOSING THIS THEME, WE AIM TO INSPIRE READERS—ESPECIALLY THE YOUNGER GENERATION—TO APPRECIATE SCIENCE, TECHNOLOGY, AND THE SPIRIT OF NATIONAL PROGRESS.

KEY ACHIEVEMENTS THAT INSPIRE US

- ★ CHANDRAYAAN MISSIONS – HISTORIC LUNAR EXPLORATION, INCLUDING THE FIRST-EVER SOFT LANDING NEAR THE MOON’S SOUTH POLE.
- ★ MARS ORBITER MISSION (MANGALYAAN) – INDIA BECAME THE FIRST NATION TO REACH MARS ORBIT IN ITS MAIDEN ATTEMPT.
- ★ ADITYA-L1 – INDIA’S FIRST SOLAR MISSION TO STUDY THE SUN AND SPACE WEATHER.
- ★ GAGANYAAN PROGRAMME – A MAJOR STEP TOWARDS SENDING INDIAN ASTRONAUTS INTO SPACE.
- ★ RECORD SATELLITE LAUNCHES – WORLD-CLASS, COST-EFFECTIVE MISSIONS WITH MULTIPLE SATELLITE DEPLOYMENTS.



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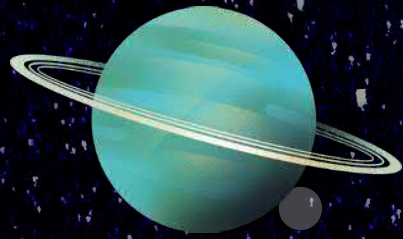
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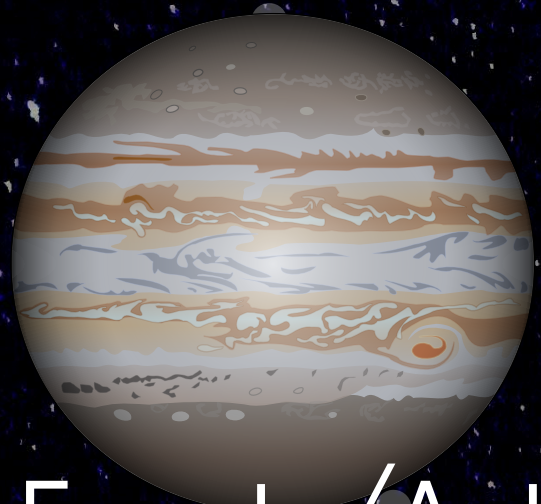
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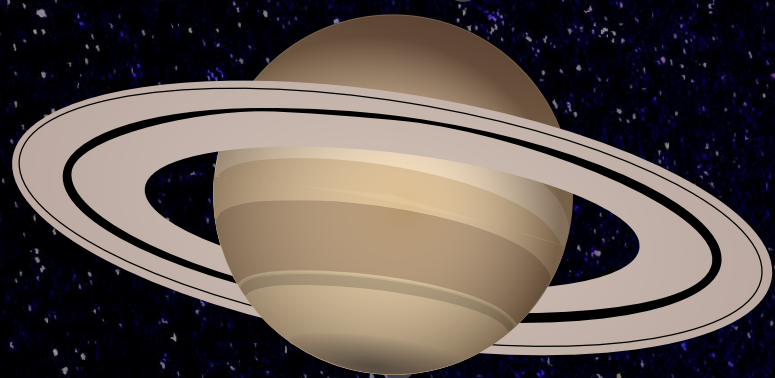


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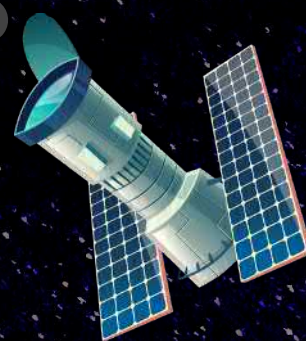
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FROM HOD'S DESK



It gives me great pleasure to share a few reflections and updates from the Department of Environmental Engineering as we conclude another productive quarter. Environmental concerns remain at the forefront of global and local conversations. I am proud that our department remains steadfast in its commitment to education, research, and outreach that address these critical challenges.

This quarter has seen significant progress in our academic and research endeavours. Our Faculty members and students have actively contributed to projects focusing on sustainable waste management, air and water quality monitoring, and innovative treatment technologies. The department's emphasis on interdisciplinary collaboration has led to partnerships with industries and government bodies, reinforcing the practical relevance and impact of our work.

We have also prioritised student engagement through workshops, field visits, and technical talks, aiming to provide holistic learning experiences beyond the classroom. It is heartening to witness our students' growing interest in environmental policy, climate action, and green innovation.

As we look ahead, our focus remains on fostering a culture of environmental stewardship, nurturing research that supports circular economy models, and equipping our students to become responsible engineers and changemakers. I encourage everyone in our community to continue thinking critically, collaborating openly, and acting sustainably. Thank you for being a part of our journey. Let us keep moving forward together for a cleaner, greener future.

Dr. Sadashiva Murthy B.M.
Professor & Head of the Department

FROM EDITORIAL



BOARD'S DESK



It's a privilege to start the Editorial Board in the Department of Environmental Engineering with a team of energetic students. The magazine captures personal reflections of faculty and staff on teaching and research, as well as in-depth analyses of educational trends and specific topics. It keeps us informed about the news, achievements, research, and teaching practices, and provides deeper insights into the work of faculty and students.

It also includes reflections on student engagement, faculty academic updates, and the impact of their research. Real-world examples of their work are presented, such as teaching strategies, innovative research projects, and impactful collaborations. The academic insights provide a forum for educators and professionals to share their views on new-generation teaching practices and the evolving education landscape. We ensure that Academic Insights will help revolutionize and elevate the education system.

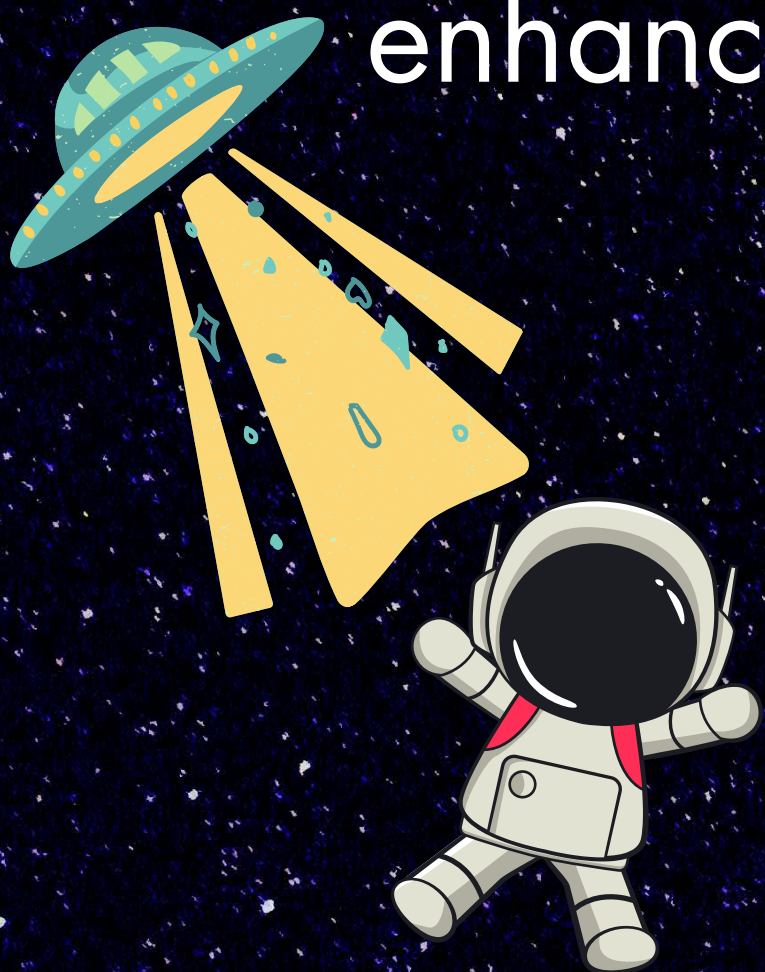
Parinitha T Niranjana
Faculty Coordinator
Editorial Board



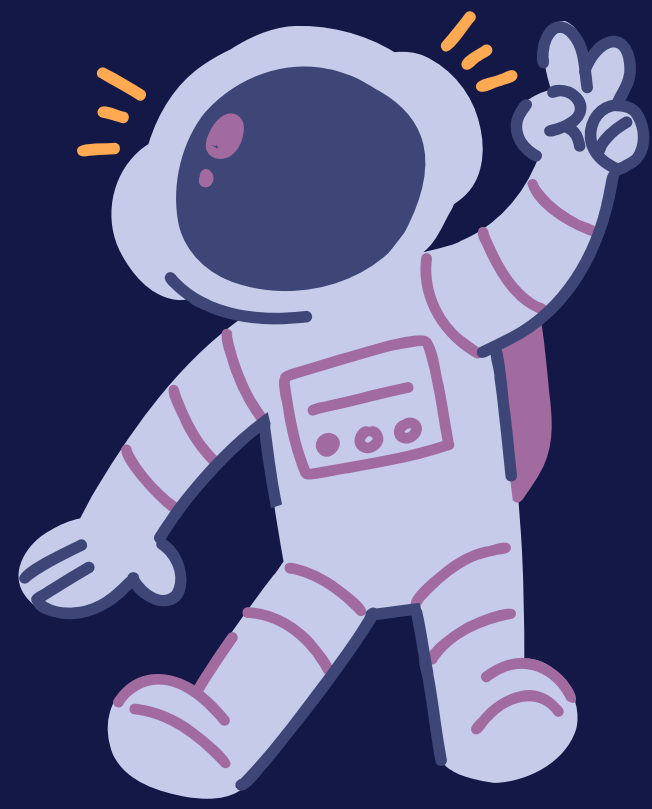
ABOUT THE MAGAZINE

The Environmental Engineering Department Magazine captures the essence of our department's academic and co-curricular journey. It showcases the achievements of students and faculty, departmental activities, events, projects, industrial visits, and workshops conducted throughout the year.

This magazine serves as a platform to highlight vibrant student participation, innovative learning approaches, and the overall growth of our department. It reflects the collaborative spirit, dedication, and enthusiasm that drive both students and staff. Every page is a testament to the continuous efforts made to enhance the learning environment and uphold the values of our department.



EDITORIAL TEAM



Advika Nayana Ittira
7 th SEM

Siya P Dileep
7 th SEM



Preetham K
7 th SEM

Punith G Bhat
5 th SEM

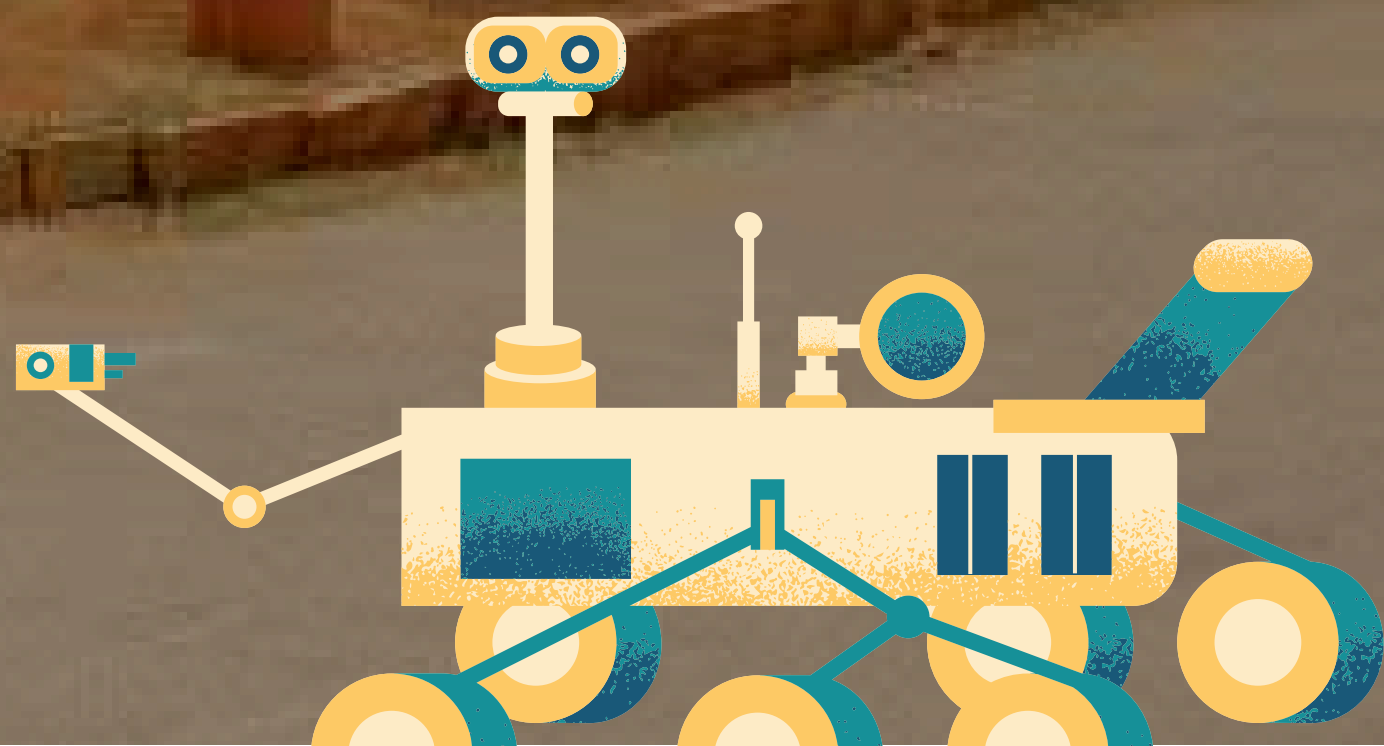


Vaishnavi VS
5 th SEM

Nishitha Parvathi BM
5 th SEM



ABOUT THE DEPARTMENT



The Department of Environmental Engineering began as an offshoot of Civil Engineering. A humble beginning was made in 1987 as the Centre for Environmental Science and Technology (CEST) to promote and start a new program in Environmental Engineering, catering to the needs of the developing society.

The B.E. (Civil and Environmental Engineering) and M.Tech. (Environmental Engineering) programs were initiated with financial support from CPHEEO, Ministry of Urban Development, Government of India, New Delhi, under the umbrella of CEST. In 1993, the Government of Karnataka accorded grant-in-aid status to the department, which has since functioned as a full-fledged academic and research unit. Both the undergraduate and postgraduate programs in Environmental Engineering have been accredited by the National Board of Accreditation (NBA), AICTE, New Delhi.

In 2009, the department introduced a cross-disciplinary master's program in Health Science and Water Engineering as a result of international collaboration with the Government of France.

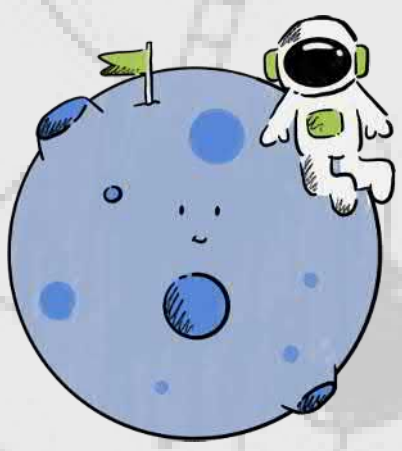
Vision

To produce knowledgeable, skilled and committed Environmental Engineers with adequate input from humanities, science, engineering and technology to effectively tackle the challenging environmental problems of the contemporary world and to be the Centre of Excellence in Environmental Engineering Education, Research and Consultancy

Mission

- To provide quality education through dynamic and up-dated curriculum, and conducive teaching – learning environment for students to excel in their career
- To impart both soft and hard skills through state of the art infrastructural facilities
- To create a pool of competent members of the faculty with commitment to involve in teaching, applied and inter disciplinary research, and consultancy
- To establish a fair and transparent mechanism of assessment and evaluation to develop confidence amongst the stake holders.
- To build industry – institute symbiosis and to establish good rapport with alumni .

OUR WONDERFUL FACULTY



Dr. RAVISHANKAR D
Ph. D.
Professor of Practice



Dr. D. ISTALINGAMURTHY
Ph. D.
Professor



Dr. B MANOJ KUMAR
Ph. D.
Professor & Dean
(Academic)



Dr. B. M. KRISHNA
Ph. D.
Professor



Mr. B. P. SHIVAKUMAR
M. Tech., Environmental
Engineering
Assistant Professor



Dr. PUSHPA TUPPAD
Ph. D.
Professor & Dean
(Academic) i/c



Dr. SAVITHA U ULAVI
Ph. D.
Assistant Professor



Mrs. THANUSHREE M. S
M.Tech., Environmental
Engineering
Assistant Professor



Mrs. SAHANA M
M.Tech., Environmental
Engineering
Assistant Professor



Mrs. PARINITHA T NIRANJAN
M.Tech., Health Science and
Water
Engineering
Assistant Professor



Dr. VISHISHTTA NAGRAJ
Ph. D.
Assistant Professor



Mr. CHANDRASHEKAR B
M.Tech., Environmental
Engineering
Assistant Professor



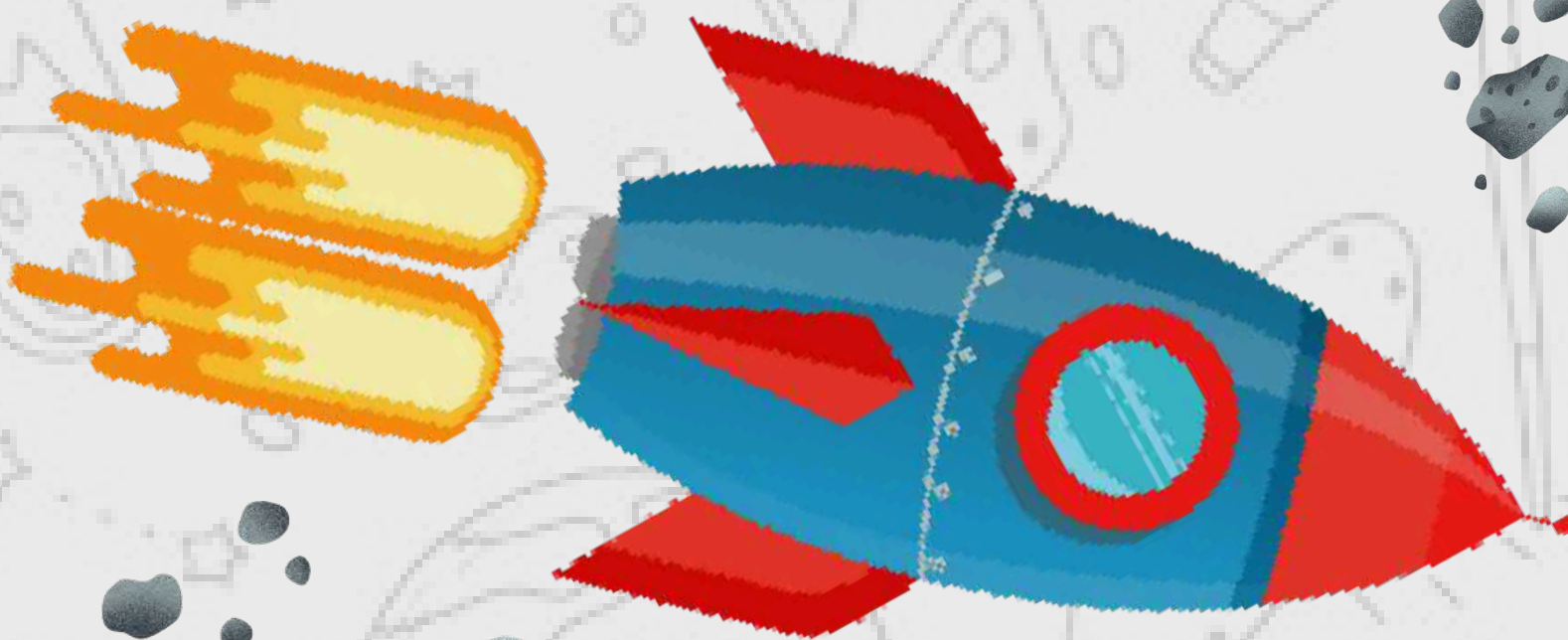
Dr. SHIVAPRASAD K S
M.Tech., Environmental
Engineering
Assistant Professor



Mr. TRISHUL A M
M.Tech.,
Environmental
Engineering
Assistant Professor



Dr. YASHAS S R
Ph. D.
Assistant Professor

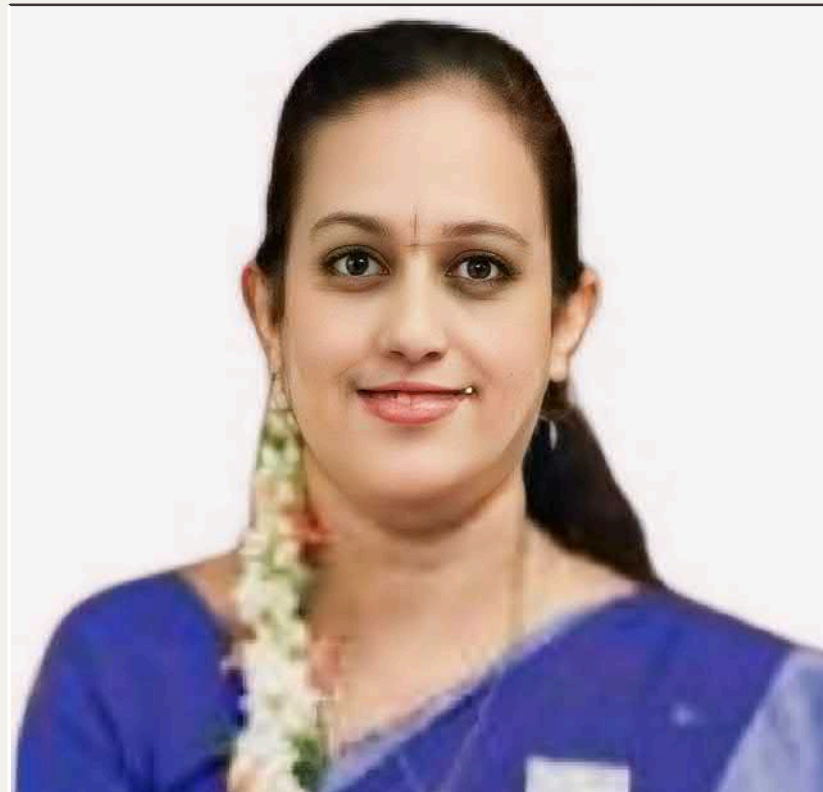


NON-TEACHING STAFF



MR. NARASIMHA

ITI
Instructor



**MRS. HEMALATHA
PRABHUSWAMY**

B.E., M.Sc, M.Tech
Instructor



MRS. MEENAKSHI D V

DEC
Instructor



MR. VINOD RAJ R

B.E.
Instructor



MR. PARAMESHWARAPPA

PUC
Lab Helper



MR. NAGAMALLAPPA S N

ITI
Lab Helper



RESEARCH SCHOLARS (IN-HOUSE)

Mr. B P Shivakumar

Research Guide: Dr. D Istalingamurthy, Former Professor

Research Co-Guide: Dr. Kumarswamy N, Professor & Head

Research Title: "Design and Evaluation of nanaomaterials for the degradation of emerging pollutants in water"

Mrs. Thanushree M. S

Research Guide: Dr. M. Mahadevaswamy, Former Professor & Head

Research Co-Guide: Dr. S Mahesh, Former Professor

Research Title: "Hybrid treatment of Textile wastewater Treatment using ECC, UASB and nanoadsorption"

Mrs. Sahana M

Research Guide: Dr. B M Krishna, Professor

Research Title: "Treatment of medium strength service industry wastewater using electrochemical treatment and sludge analysis"

Mrs. Parinitha T Niranjana

Research Guide: Dr. Sadashiva Muthy B M, Professor & Head

Research Title: "Route Optimization for collection and transportation of Municipal Solid Waste in selected wards of Mysuru City"





RESEARCH SCHOLARS (IN-HOUSE)

Mr. Chandrashekar B

Research Guide: Dr. Pushpa Tuppad, Professor and Dean Academics (i/c)

Research Co- Guide: Dr. K S Lokesh, Former Professor & Head

Research Title: "Monitoring and modeling of the impact of pollution sources on the water quality of a stretch of the River Lakshamanatirtha, Karnataka State, India"

Mr. Trishul A M

Research Guide: Dr B Manoj Kumar, Former Professor

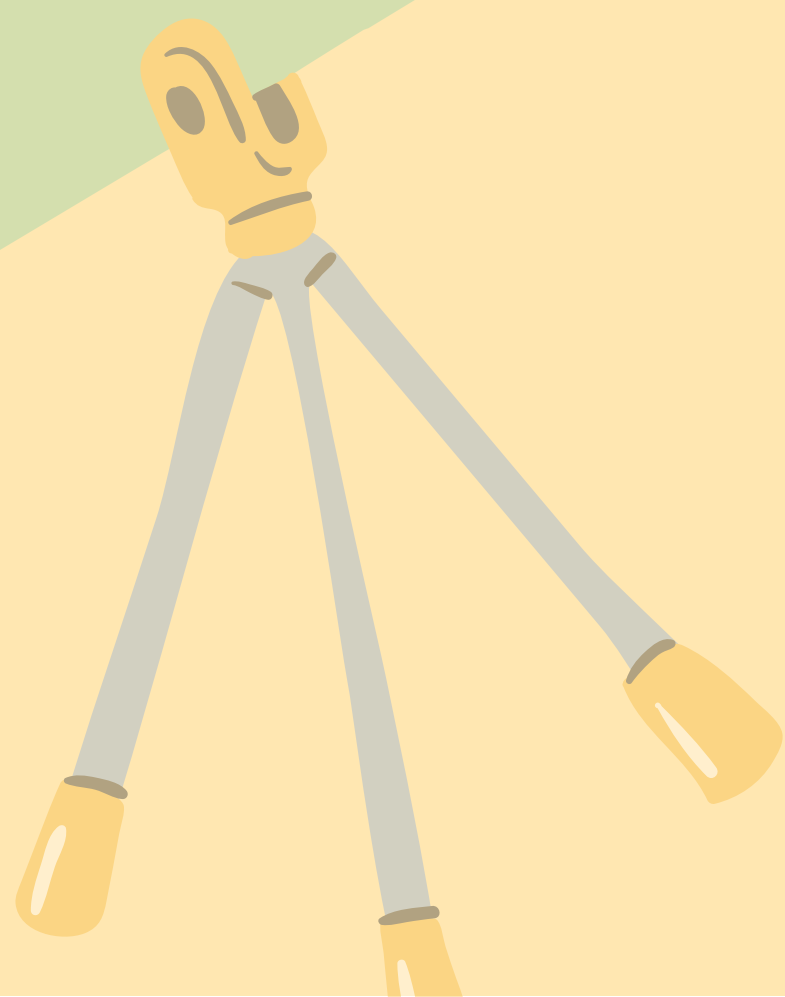
Research Co- Guide: Dr Sandeep S, Assistant Professor, Department of Chemistry

Research Title: "Synthesis and characterization of metal oxide nano materials and their application as electrode material and photocatalyst towards the detection and degradation of environmental pollutants"

Mrs. Hemalatha Prabhuswamy

Research Guide: Dr. Sadashiva Muthy B M, Professor & Head

Research Title: "Studies on Grey water characterization, treatment and reuse"





RESEARCH SCHOLARS (FULL-TIME)



SUPRIYA V

Research Guide: B. M. Krishna

Research Title: "Degradation of Acidic Dyes in Textile Wastewater Using Nano Metal Oxides".



KARISHMA K

Research Guide : Dr. Pushpa Tuppad

Research Title : "Comparative analysis of intermittent and continuous water supply system : Technical , Economic and Social dimensions".



POOJA H M

Research Guide : Dr. B M Krishna

Research Title: "Electrochemical treatment of wastewater from car seat fabric manufacturing industry".



VARSHA G KORI

Research Guide: Dr. Pushpa Tuppad.

Research Title: "Comparative Analysis of Three Cooling Systems in a Building Using a Life Cycle Assessment-Based Sustainability Approach".



NISHMITHA K S (RESEARCH ASSISTANT)

Research Guide: Dr. Pushpa Tuppad

Consultancy Project: CPHEEO "Comparative Study on Cost Benefit Analysis of Intermittent v/s 24X7 Water supply system for Urban and Rural Areas".



EVENTS / ACTIVITIES ORGANIZED

(WORKSHOP/CONFERENCE/ SEMINAR/ INVITED TALKS)

25th January 2025 - Voters' Day 2025 - As part of National Voters' Day 2025, the Department of Environmental Engineering faculty and 5th-semester students participated in Voters' Day, by taking a pledge and creating awareness about the importance of voting and the rights of each individual. The Line stated for Voters Day was "Nothing like voting, I vote for sure".

28th March, 2025 - Awareness Program in view of World Water Day & Forest Day - 2025 in association with the District Administration, Mysuru, Karnataka State Pollution Control Board (KSPCB), and Madilu Education and Rural Development Society (MERDS), Mysuru, in the IS/CS Seminar Hall.

23rd April 2025 - ESG Conference 2025 and Expo on "Driving Sustainable Transformation & Aligning Business with Sustainability" jointly organised by CII, Mysuru, Department of Environmental Engineering, SJCE, JSSSTU, Mysuru, Schevaran Cleanfix Academy, Mysuru in IS Seminar Hall, JSSSTU, Mysuru.

21st May 2025 - As part of World Environment Day 2025, the district administration of Mysuru jointly organized the Pond and Kalyani Clean-up Drive and Awareness Campaign with KSPCB (Mysuru Rural & Urban), Madilu Educational and Rural Development Society, Nagavala Gram Panchayath, JSS Science and Technology University, MIT Thandavapura, VVCE Mysuru, and various industries at Bommenahalli.

24th May 2025 - The 1st Alumni Webinar Series on "Industrial Wastewater Treatment and Management" was delivered by Dr. Shobhan Majumder, Excellence Manager, United Brewery Ltd, Nanjangud.

5th June 2025 - The Department of Environmental Engineering, SJCE, JSSSTU, Mysuru, jointly organized an awareness rally and sapling plantation under the global theme "End Plastic Pollution" with the District Administration, District Legal Services Authority, KSPCB Mysuru (Regional Offices 1 & 2), Madilu Education and Rural Development Organisation, and other stakeholders.

16th June 2025 – A Career Guidance Program was organised by Bulls Eye, Mysuru, at the Department Seminar Hall (IP003). Mr Revanth M.S., Senior Manager, Business Operations, Bulls Eye, Mysuru, was the resource person. About 46 pre-final year students attended.

21st June 2025 – The 2nd Alumni Webinar Series on “Automation of Water and Wastewater Treatment Plants” was conducted by Mr. Arjun R, Managing Director, ParyAL Solutions Pvt. Ltd.

25th June 2025 – World Environment Day – 2025 Celebration was hosted at Golden Jubilee Bhavan, JSSSTU. The event included a sapling plantation and the unveiling of recycled plastic benches donated by Bisleri Ltd.

28th June 2025 – The Department organised the National Student Paryavaran Competition (NSPC) 2025 along with a technical talk on “Sustainability & Climate Change” by Mr. Guru Prasad, Software Technology Architect, Infosys, Mysuru.

4th–5th July 2025 – A Two-Day Workshop on “Hydraulic Modelling of Networks and BIM Applications” was held.

16th July 2025 – Industrial Visit: 3rd-year students, accompanied by faculty, visited Thorekadanahalli Water Treatment Plant (WTP) near Malavalli and the Sewage Treatment Plant (STP) operated by BWSSB.

17th July 2025 – An Awareness Session on Plastic Waste Handling and Segregation was conducted for housekeeping staff in association with Bisleri Pvt. Ltd.

19th July 2025 – The 3rd Alumni Webinar Series on “Greenhouse Gas Mastery: From Measurement to Management Excellence” was delivered by Mr. Ravitej Hegde, CEO, Paryai Solutions Pvt. Ltd.

23rd August 2025 – The 4th Alumni Webinar Series on “Emerging Topics in Environmental Engineering Design and Assessment” was conducted by Dr. Shahul Hameed K.P., Senior Environmental & Process Engineer, Parsons International, Doha, Qatar.

04th to 06th September 2025- Continuous Ambient Air Quality Monitoring event, which was undertaken on our campus in association with the Karnataka State Pollution Control Board (KSPCB), Bengaluru.

27th September 2025- Orientation Programme for 1st year students in the department seminar hall.

27th September 2025- 5th Alumni Webinar Series on “Nature-Based Solutions for Water Circularity” by Ms. Rohini Pradeep, Senior Program Manager, Head of Laboratory, CDD, Bengaluru.

10th October 2025- In view of Suvarna Mahosthva of Karnataka State Pollution Control Board (KSPCB), Mysuru Rural and Urban, in association with the Department of Environmental Engineering, organised a cleanup drive and an awareness session at Mysuru Dasara Exhibition grounds at 10.00 am, followed by an Industrial visit to MYMUL.

25th October 2025- 6th Alumni Webinar Series on 25.10.2025 on “Role of Environmental Engineers in MCC” by Mr. Madhukar M, Assistant Executive Engineer (Environment), MCC, Mysuru.

18th November 2025- An industrial visit had been organised for the 5th and 7th semester students along with Mr. Shivaprasad K S, Dr. Vishishtta Nagaraj, Dr. Yashas S R and Mr. Vinod to Solid Waste Management Units (Rayankere, Vidyaranyapuram, Kumbar Koppal and Jagruth).

22nd November 2025- 7th Alumni Webinar Series on “Wastewater Treatment for Industries: Case Studies” by Chinmay Delampady, Co-founder & Director, Aapaavani Environmental Solutions Pvt Ltd.

27th November 2025- A Career Guidance Program from Career Launcher, Mysuru, organised for 5th-semester UG students by Mrs. Geetha R. Shah, Manager – Business Development, Career Launcher, Mysuru.

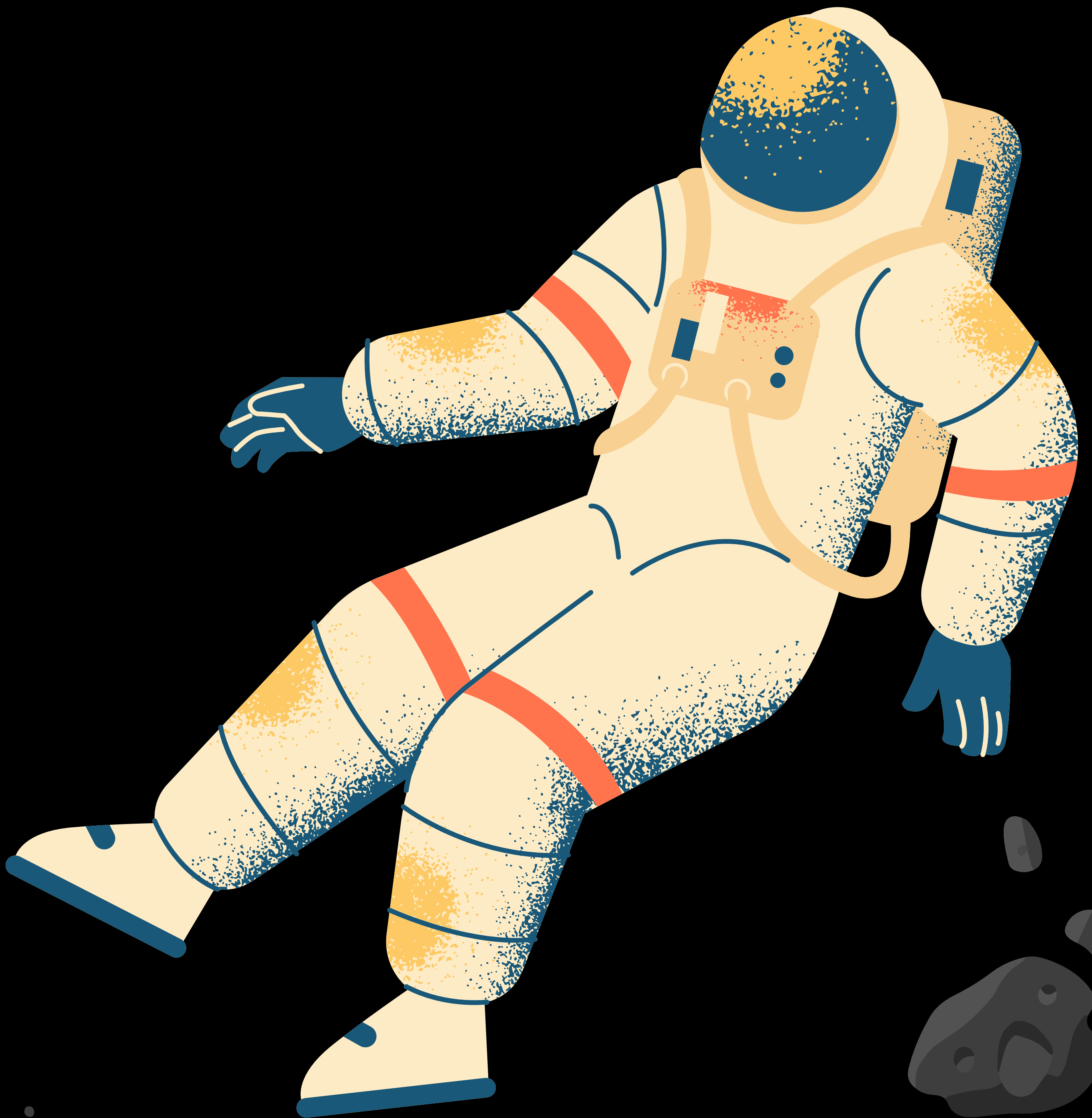
26th November 2025- Department of Environmental Engineering participated in Constitution Day 2025 along with 3rd-semester students by taking an oath towards the nation.

29th November 2025- Technical talk on Live GeoSolutions: smart Monitoring and Management using Web and Mobile GIS by Mr Venugopal T V, Founder and CEO of InfraTech, Bangalore.

26th- 27th December 2025- National Pollution Control Day Quiz and Technical talk on Environmental Pollution in IS/CS Seminar Hall.

27th December 2025- 8th Alumni Webinar Series on “Whether 24*7 Water Supply is possible in India? A case study in Karnataka” by Dr. K P Jayaramu, Individual Consultant and Task Manager for ADB-assisted WS and Sanitation projects in KUIDFC.

ACHIEVEMENTS BY FACULTY, STAFF & STUDENTS



ACHIEVEMENTS BY FACULTY, STAFF

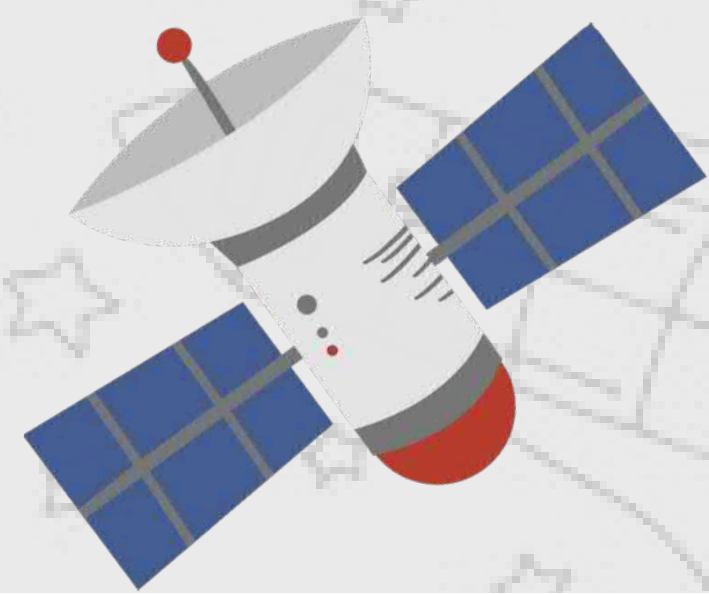
Dr. Sadashiva Murthy B M, Prof & Head attended as "Expert Member" in the 23rd Meeting (Virtual) of Expert Committee under PHE Sector Development Scheme of CPHEEO by Ministry of Housing and Urban Affairs, Govt. of India for scrutiny and approval of new technical research proposals in Water Supply, Used Water Management, Solid Waste Management and Storm Water Drainage on 28th January 2025 at 10.30 am.

Dr. Sadashiva Murthy B M, Prof & Head- PI and Mrs. Hemalatha Prabhuswamy- CO-PI had a presentation on 28th January 2025 of Applied Research proposal on "Monitoring and Surveillance of Water Quality in Selected Areas of Mysuru City, Karnataka, India" to Expert Committee under the Chairmanship of Adviser (I/c) (PHEE), CPHEEO for selection of applied research proposals under PHE Sector Development Scheme of CPHEEO by Ministry of Housing and Urban Affairs, Govt.

Submission of Project proposal to CPHEEO for conducting a study on "Municipal Solid Waste Characterization" in southern states of India under the PHE Sector Development Scheme. Submitted by Dr. Sadashiva Murthy B M, Prof & Head consisting of a team of 5 members: Mrs. Thanushree M S, Mrs. Parinitha T Niranjana, Mr. Chandrashekar B, Mr. Shivaprasad K S and Mrs. Hemalatha Prabhuswamy during January 2025.

Dr. Sadashiva Murthy B M, Dr. B M Krishna, Mr. Shivakumar B P and Mr. Shivaprasad K S visited to MYMUL, Mysuru, to provide technical consultancy for the proposed ETP during February 2025.

Dr. Pushpa Tuppad delivered a talk on 'Urban Contribution to Global Warming' under 'Go Green – Ecofriendly Meet and Greet' Symposium, Chennai on 8th February 2025.



Dr. Pushpa Tuppad was honored with 'Green Award' for her contribution in the field of Environmental Engineering and Sustainability under 'Go Green – Ecofriendly Meet and Greet' Symposium, Chennai on 8th February 2025.

Mrs. Hemalatha Prabhuswamy was awarded a certificate for reviewing for the Journal of Environmental Management for 5 reviews between March 2024 and February 2025 under Elsevier.

Dr. Vishishtta Nagaraj was invited as a judge for BUILD A THON 2025 on 22nd March 2025 at VVCE, Mysore.

Dr. Sadashiva Murthy B M, Professor & Head, recognised as a Reviewer of workshop proposals for the IWA Water and Development Congress & Exhibition 2025 to be held 8-12 December 2025, Bangkok, Thailand.

Dr. Sadashiva Murthy B M, Professor & Head, whose work has been recognised as a top-viewed article in World Water Policy.

Mrs. Hemalatha Prabhuswamy received a Certificate of Review for the Journal of Environmental Management in April 2025.

Dr. Ravishankar D was appointed as Professor of Practice in the Department of Environmental Engineering in May 2025.

The Departmental Editorial Board has been framed with student coordinators: Advika Nayana Ittira, Nishitha Parvathi B M, Siya P Dileep, Vaishnavi V S, Punith Bhat, and Preetham K from the 2nd and 3rd year B.E., Faculty coordinator: Parinitha T Niranjana, chaired by Dr. Sadashiva Murthy B M, Professor & Head.

Dr. Pushpa Tuppad was appointed as Dean (Academic) incharge, JSSSTU, Mysuru in June 2025.

The Department received an Appreciation Certificate from KSPCB (Mysuru Regional Office) for active participation in World Environment Day activities on 13th June 2025.

Dr. Pushpa Tuppad was part of a Subject expert for the selection of faculty members to the Department of Civil Engineering, SIT, Tumkur in June 2025.

Mr. Shivaprasad K S was appointed as the department-level ISO coordinator.

Dr. Sadashiva Murthy B.M. was invited to the Swachh Survekshan Awards Ceremony, Vigyan Bhavan, New Delhi, on 17th July 2025.

Dr. Sadashiva Murthy B.M. was invited as a mentor for the Y4G Fellowship at the Y4G Mentor's Meeting organised by GRAAM, Mysuru, on 28th July 2025 –

Dr. Sadashiva Murthy B.M. joined ISHRAE, Mysore Chapter as a new member in August 2025.

Dr. Pushpa Tuppad chaired three sessions on “Environment, Sustainability, and Social Responsibility” at the International Conference on Digital Innovation and Transformation in South East Asia, organised by JSSSTU, Mysuru, from 20th–21st August 2025.

Mrs. Parinitha T. Niranjana, Mrs. Hemalatha Prabhuswamy, and Mr. Narasimha served as resource persons for a 5-day ICMR-funded workshop on “Harnessing Bacteriophages and One Health Approaches to Combat AMR”, demonstrating microbial water analysis techniques on 21st August 2025.

Dr. Ravishankar D., Dr. Vishishtta Nagaraj, Mr. Shivaprasad K.S., and Mrs. Hemalatha Prabhuswamy attended a stakeholders meeting on civic engagement, chaired by MCC Commissioner Shaikh Tanveer Asif on 22nd August 2025.

Mrs. Parinitha T Niranjana (Lead coordinator), Mr. Trishul A M, and Dr. Yashas have been coordinators for the Student Induction Programme 2025, organized by the university from 15.09.2025 to 26.09.2025.

Mrs. Hemalatha Prabhuswamy, as a resource person for a technical talk delivered on "Plastic Waste Management" as part of NSS Day celebration held on 24th September 2025 at JSS Polytechnic for the Differently Abled, Mysuru.

The Department of Environmental Engineering faculty and Research scholars visited Scheveran Cleanfix Pvt. Ltd. on 24th September 2025.

Dr. Sadashiva Murthy B M, Professor & Head, was elected to the Institution of Engineers State Committee 2025-27 from the Environment Division as a member, Karnataka State centre.

Dr. Savitha U Ulavi, Assistant Professor, along with Dr. Chandresh, Assistant Professor, Department of PST, was granted seed money for a project on 18th October 2025 on the title "Design and Development of Scalable Prototype of Treating Micro plastics Released from Laundry Effluents".

At the ceremony of the Suvarna Mahosthva of Karnataka State Pollution Control Board (KSPCB), GoK held on 27th October 2025, the Department of Environmental Engineering, SJCE, JSSSTU, Mysuru was conferred with the INDIRA PRIYADARSHINI AWARD for the services rendered to society and the Environment.

Dr. D Ravishankar, Professor of Practice, delivered a lecture on the topic "Project Finance: A Case Study" at the Association of Consulting Civil Engineers (India), Mysore, on 28th October 2025 in NIE, Mysuru.

Dr. D Ravishankar, Professor of Practice, delivered a lecture on the topic "Project Financing in PSUs" held at a training programme in Financial Management for officers of KSA&AD on 29th October 2025, in the Fiscal Policy Institute, Kengeri.

Dr. Sadashiva Murthy B M, Dr. Pushpa Tuppad, Dr. Savitha U Ulavi and Dr. Vishishtta Nagaraj chaired a session for 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, India, Center for Science & Technology of the Non- Aligned & Other Developing Countries, New Delhi, India and Scientific Committee on Problems of the Environment, The Netherlands, held at JSS Science and Technology University, Mysuru from 6th – 7th November 2025.

Mrs. Sahana M, Mrs. Parinitha T Niranjana, Mr. Shivaprasad K S and Mr. Trishula M were coordinators (Registration, Food and Travel committee) for International Conference on "Heat and Heatwave Trends and Their Health Implications in the Global South" jointly organized by JSS Science and Technology University, Mysuru, India, Center for Science & Technology of the Non- Aligned & Other Developing Countries, New Delhi, India and Scientific Committee on Problems of the Environment, The Netherlands, held at JSS Science and Technology University, Mysuru from 6th – 7th November 2025.

Dr. Sadashiva Murthy B M and Dr. Pushpa Tuppad participated in the Australia-India Water Centre Partner Forum and International Symposium, Western Sydney University, Parramatta Campus, Australia, from 17th-19th Nov, 2025 and 20th-23rd Nov 2025, University of Melbourne, Melbourne.



Dr. Savitha U. Ulavi was a resource person for the National Seminar on Green Technologies and Renewable Energy Integration, organised by the University of Mysore Funded by RUSA. The title of the talk was 'Assessing Greenhouse Gas Emissions-A pathway to renewable energy - A pathway to renewable energy adoption' during December 2025.



Dr. Sadashiva Murthy B M, Mr. Shivaprasad K S and Mrs. Hemalatha Prabhuswamy visited Suttur on 08th November 2025 to review the existing Solid Waste Management Practices along with Mr. Madhukar M, AEE, MCC, Mysuru.

Mr. Shivaprasad K S represented JSSSTU at KSPCB, Golden Jubilee celebrations at Bengaluru Palace grounds on 19th November 2025, as the college received the Indira Priyadarshini award at the district level program held on 27th October 2025 at Mysuru.

Mr. Shivaprasad K S was invited as a resource person to deliver a talk on “Underground drainage system and used water management” at Hunsur town municipal on 25th November 2025 under the Swacch Bharat Mission 2.0 scheme.

Mr. Shivaprasad K S was invited as a resource person to deliver a talk on “underground drainage system and used water management” at Krishnarajanagara town municipal on 04th December 2025 under the Swacch Bharath Mission 2.0 scheme.

Parinitha T Niranjana and Dr. Shivaprasad K S were invited as resource persons for an invited talk on “Used Water Management” and “Cleanliness for pourakarmikas” organised by Madilu in association with Purasabhe, H D Kote, on 15th December 2025 under the Swacch Bharat Mission 2.0 scheme.

Dr. Shivaprasad K S was invited as a resource person to deliver a talk on “Solid Waste Management” at Bannuru town municipal on 19th December 2025 under the Swacch Bharat Mission 2.0 scheme.

Dr. Shivaprasad K S and Hemalatha Prabhuswamy were invited as resource persons for training on “Solid Waste management” and “Used Water Management” to the Paurakarmikas and personnel involved in Solid Waste Handling of Rammanahalli Town Panchayath, on 23rd December 2025, under the Swacch Bharat Mission 2.0 scheme.

Parinitha T Niranjana and Dr. Shivaprasad K S were invited as resource persons for an invited talk on “Solid Waste Management” and “Cleanliness for pourakarmikas”, organised by Madilu in association with Pattana Panchayath Srirampura, on 26th December 2025, under the Swacch Bharat Mission 2.0 scheme.

Hemalatha Prabhuswamy received a review recognition certificate on Elsevier Reviewer Hub for reviewing the paper title "Pioneer Plants Drive Initial Pedogenesis in Fly Ash: Mechanisms of Iron Mineral Transformation and Microbial Community Reorganisation" of the Journal of Environmental Management during December 2025.

Hemalatha Prabhuswamy (PI) and Dr. Sadashiva Murthy B M (CO PI) presented a PPT on 30th December 2025 on the title “Monitoring Surveillance and Public Health Evaluation of Water Quality in Selected Areas of Mysuru City, Karnataka” for the Applied research proposal submitted to CPHEEO.

Dr. Shivaprasad K S and Hemalatha Prabhuswamy were invited as resource persons for a Training Session on "Solid Waste Management" and "Used Water Management" for the Paurakarmikas and personnel involved in Solid Waste Handling and sanitation at Bogadi Municipal Panchayat on December 31, 2025, under the Swachh Bharat Mission 2.0 scheme.

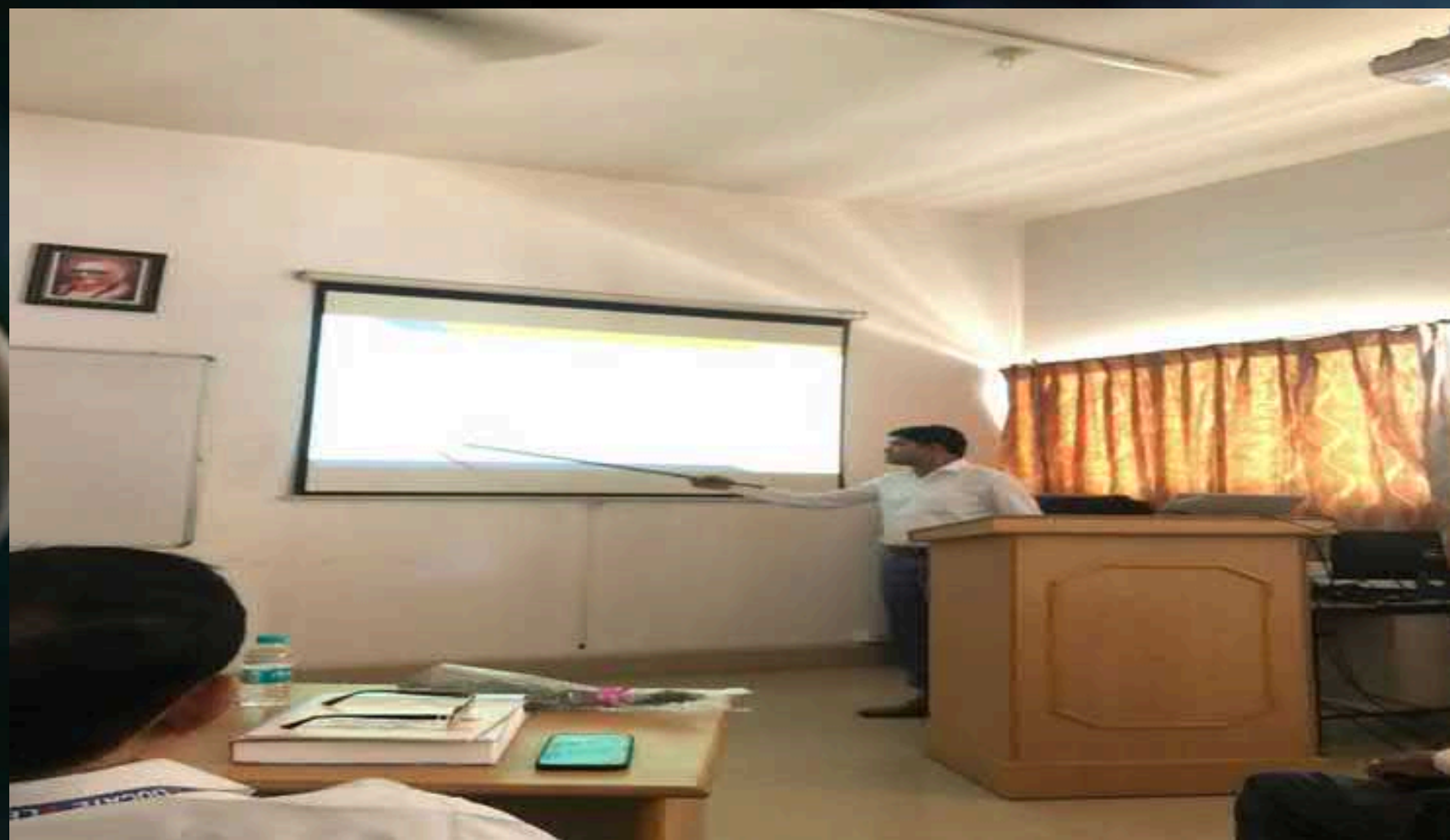
Dr. Savitha U. Ulavi developed e-content and delivered an invited talk on 'Environmental Sustainability and Climate Change' for the Grass Root Research and Advocacy Movement (GRAAM) as part of the Youth for Governance Fellowship (Y4G), December 2025.



Dr. Sadashiva Murthy B M, Professor & Head, receiving the Indira Priya Darshini award from the dignitaries

AWARD OF PH.D.S IN THE DEPARTMENT

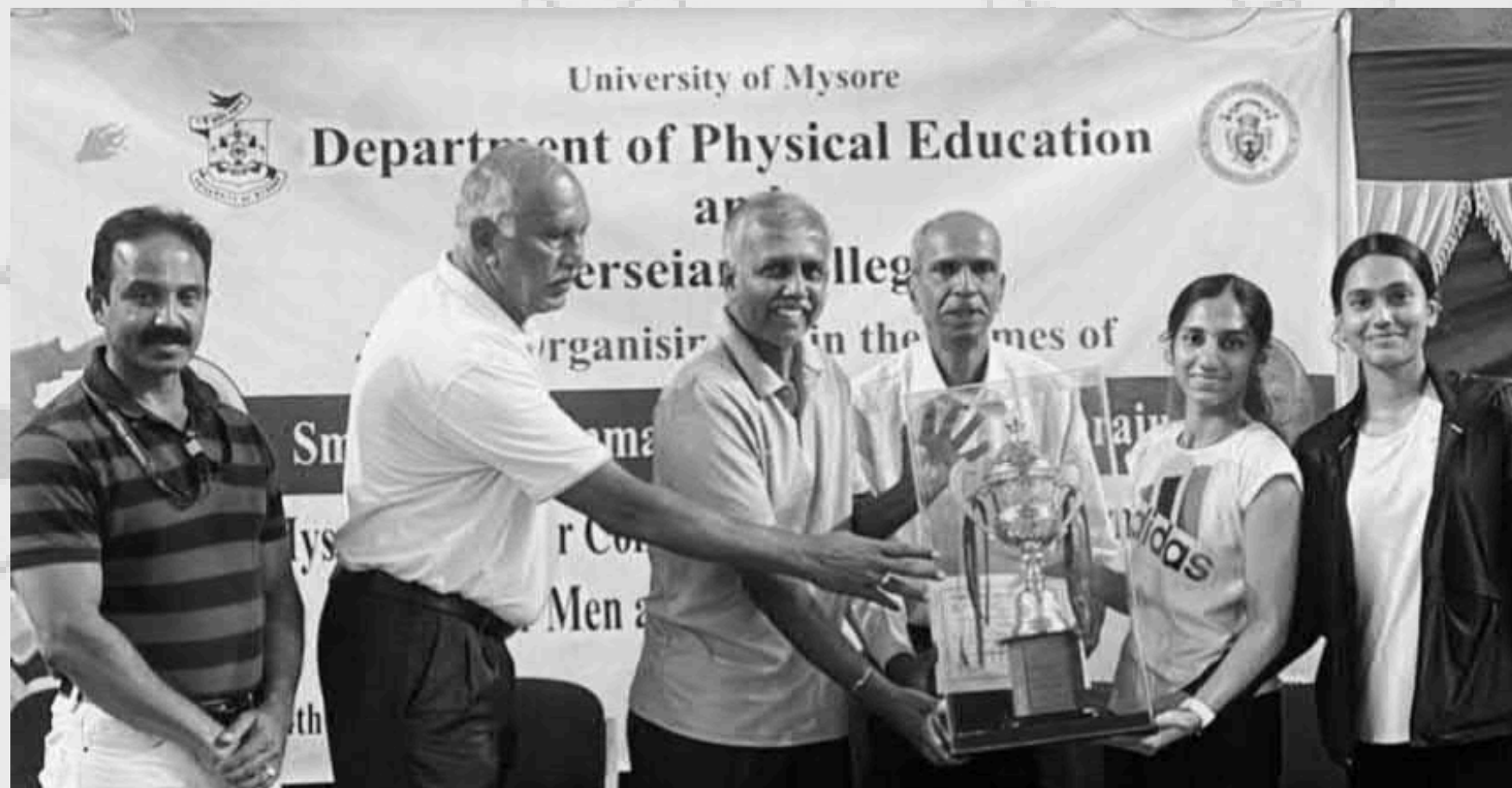
Mr. Shobhan Majumder, a research scholar in the Department, has successfully defended his thesis title “Brewery and Distillery Industrial Effluents Treatment for Power Generation using Microbial Desalination Cell” in his final PhD viva voce examination on 17th February 2025 for the award of PhD degree.



Mr. Shivaprasad K S., a research scholar in the department, has successfully defended his thesis titled “Treatment of Biomedical Service Industry wastewater using hybrid Electrochemical coagulation (ECC) processes” in his final PhD viva voce examination on 05th December 2025 for the award of PhD degree.



ACHIEVEMENTS BY STUDENTS



We are happy to share the excellent performance of our student V S Vaishnavi from 4th sem EVE, who grabbed the trophy of runners up with her companion Vibha Umesh from 2nd sem CSE, at the "Zonal Badminton Tournament" 2025, held at University of Mysore on 13th-14th Feb 25.



Cadet V S Vaishnavi of 1 Karnataka Engineer Company from 4th sem EVE, has successfully completed B certificate examination of NCC (National Cadet Corps) with an Alpha grade held on 23rd Feb 2025.



The 2nd year B.E. students- Manasa Y, Inchara M V and Nishitha Parvathi B M participated and won prizes in Mysuru City Inter Collegiate- Lifting Competition in March 2025 organized by JSSSTU, Mysuru in association with Teresian College, Mysuru under Department of Physical Education, UoM.

21st June 2025 – Student volunteers, in collaboration with Bisleri International Pvt. Ltd., performed a street play at Maharaja Grounds, Mysuru, to raise awareness on the 5Rs of plastic waste management.

21st June 2025 – Students participated in International Yoga Day at Mysuru Palace, along with faculty.

17th July 2025 – Nishitha Parvathi B.M. (2nd Year) won 2nd place in Discus Throw during the annual inter-branch Athletics competition organised by the Department of Physical Education.

17th July 2025 – B.M. Manoj, Koushik, Hithaishini, and Dhanya (1st & 2nd Year) won 3rd place in Mixed Relay at the inter-branch Athletics competition.



18th August 2025 – Nishitha Parvathi B.M. & Manasa Y. (2nd Year) won 1st and 2nd places in the Senior and Junior categories at the City-Level Khelo India Weightlifting Competition, organised by the Department of Physical Education, JSSSTU, Mysuru.

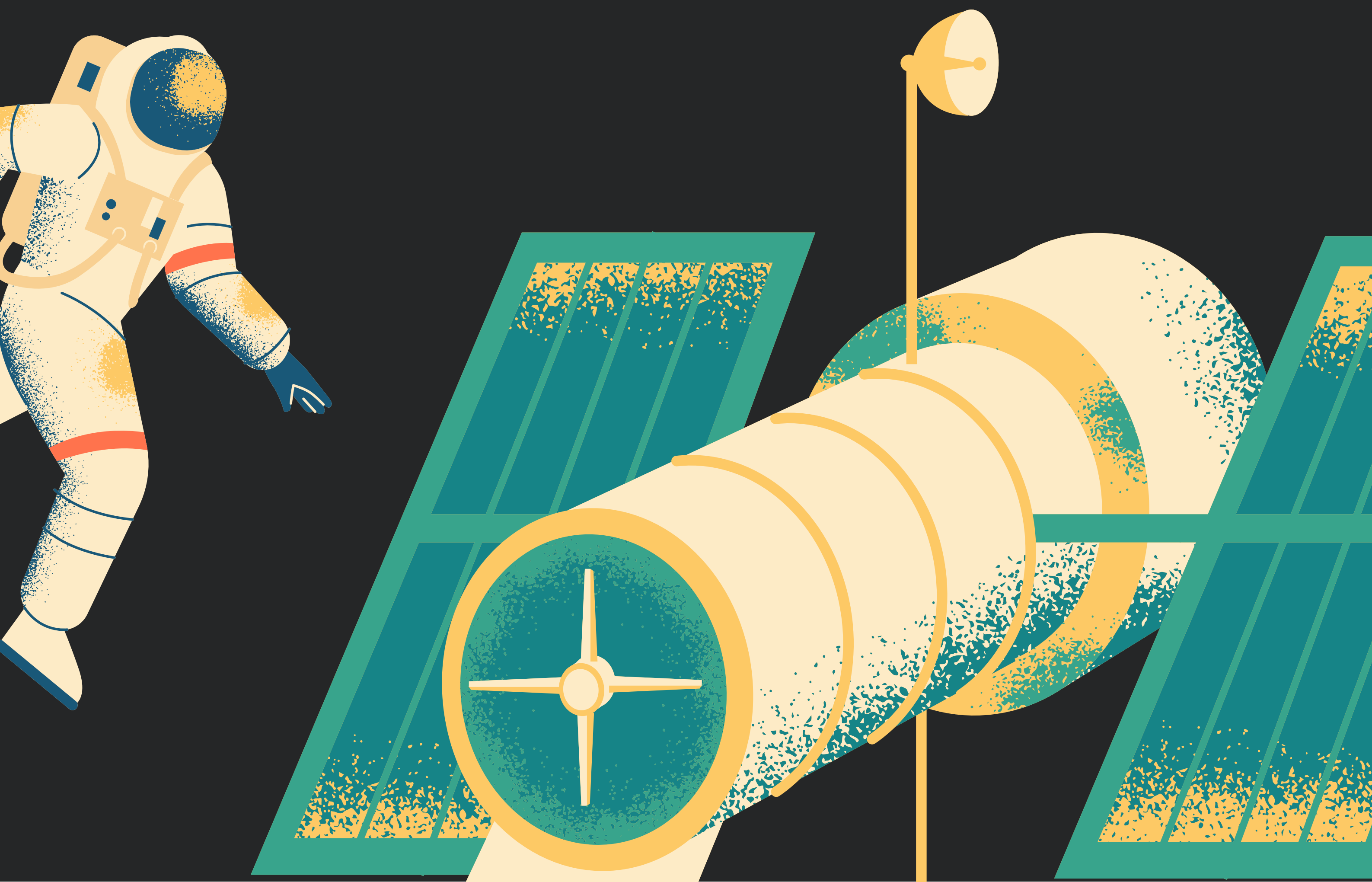
The 3rd year students- Nischitha Parvathi B M and Inchara MV participated and won gold and bronze medals in the Mysore City Intercollegiate Weightlifting competition conducted on 28th October 2025 in JSSSTU, Mysuru.



The 3rd year student, Nishitha Parvathi B M participated and secured 4th place in the Karnataka State Level Weightlifting competition held on 08th November 2025 in Government Junior College, Sulya.



PUBLICATIONS BY FACULTY/STUDENTS



PUBLICATION BY THE FACULTY

Ramya S, Srinath S, Pushpa Tuppad. 2025. Advanced temporal deep learning framework for enhanced predictive modeling in industrial treatment systems. Results in Engineering, Volume 25, <https://doi.org/10.1016/j.rineng.2025.104158>

Delwin Pullokaran, Ankur Bhardwaj, Diksha Haswani, Ramya Sunder Raman, Deeksha Shukla, Abisheg Dhandapani, Jawed Iqbal, Naresh Kumar R, Sadashiva Murthy BM, and Laxmi Prasad (2025), Advancing PM2.5 Source Apportionment through Dispersion Normalized PMF: A Comprehensive Study across India, EGU General Assembly 2025 <https://doi.org/10.5194/egusphere-egu25-1087>

Tuppad, P., Gowda, S.S., Srivatsa, N., Rakshitha, H.D., Apoorva, M., Rakshitha, N.Y. (2025). From Trash to Treasure: The Rise of Plastic Construction. In: Suriyanarayanan, S., H. P., S., Pakeerathan, K. (eds) Combating Plastic Pollution in Terrestrial Environment. Springer, Singapore. https://doi.org/10.1007/978-981-96-2343-3_13

Jean-Philippe Putaud, Fabrizia Cavalli, Karl Espen Yttri, Judith C. Chow, John G. Watson, Sadashiva Murthy et.al., “A worldwide aerosol phenomenology: Elemental and organic carbon in PM2.5 and PM10”, Atmospheric Environment 358 (2025) <https://doi.org/10.1016/j.atmosenv.2025.1213>

Ramya S, Srinath S, Pushpa Tuppad, V Chandan. 2025. An attention infused multi-stage parallel adaptive neuro fuzzy systems framework with metaheuristic optimization for accurate water quality prediction. Discover Artificial Intelligence, 5: 359; ISSN:27310809, <https://doi.org/10.1007/s44163-025-00624-y>, SJR: 0.876, H-Index: 15, Impact Factor: 4.5. [Q1]

Ramya S, Srinath S, Pushpa Tuppad. 2025. Data driven multi-stage transformer based framework for intelligent water quality monitoring. Scientific Reports, 15:41680; ISSN: 20452322, <https://doi.org/10.1038/s41598-025-25527-x>, SJR: 0.874, H-Index: 347, 2024 Impact Factor: 3.9. [Q1]

Prijilesh T P, Pushpa Tuppad, Sadashiva Murthy B M, Dharma Hagare, Basant Maheshwari presented a paper on "Modular Hybrid STP: A sustainable solution for Decentralised Urban wastewater Management" at AIWC@5 - AIWC Partner Forum and International Symposium organised by Australia India Water Centre, Western Sydney University, Australia during 17th -19th November 2025.

PUBLICATION BY THE FACULTY

Dr. Savitha U. Ulavi presented a research work titled ' Visibility Sensing and its Applications in Air Quality Management' at the Indo-German workshop on Receptor modelling, applications and Technical Solutions held at the Indian Institute of Technology Madras during October 2025.

Devanand Maski, Pushpa Tuppad, Basant Maheshwari presented a paper on "Integrating Water, Energy and Food systems for Sustainable Resource Management under climate Stress" at AIWC@5 – AIWC Partner Forum and International Symposium organised by Australia India Water Centre, Western Sydney University, Australia during 17th –19th November 2025.

PUBLICATION BY THE STUDENTS

Sahana Mahesh, Krishna Benamanahalli Motaiah, Mahesh Shivaswamy. Sahana M presented a 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), organised by the Faculty of Engineering & Technology (FET), Poornima University, Jaipur, on April 24-26, 2025.

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.

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.

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.

Parinitha T Niranjana, Sadashiva Murthy B M, D Istalingamurthy, Prashanth B. (2025), “Optimizing Municipal Solid Waste Collection for Environmental Sustainability: A GIS-Based Case Study of Mysuru City”, *International Journal of Environmental Sciences*; ISSN: 2229-7359 Vol. 11, No. 24s, pp 1895- 1905 [Q3] <https://doi.org/10.64252/hf7pp743>

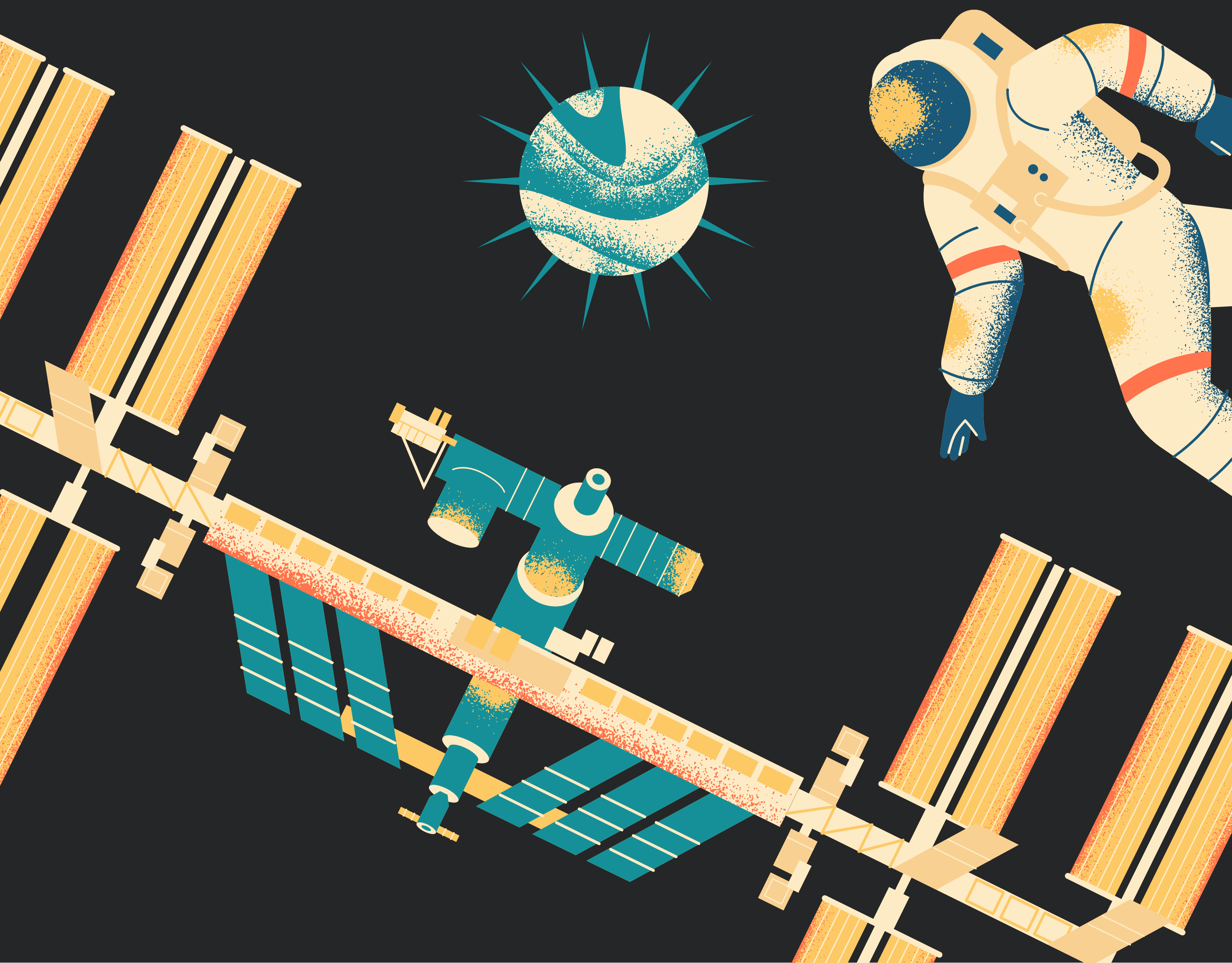
PUBLICATION BY THE STUDENTS

Hemalatha D. S., Sadashiva Murthy B M, Sandeep N. Mudliar and D. Istalingamurthy presented a paper on "Linking Urban Water management with Circular Economy Principles: An Integrated Approach" with coauthors at AIWC@5 – AIWC Partner Forum and International Symposium organised by Australia India Water Centre, Western Sydney University, Australia during 17th –19th November 2025.

Karishma K, Pushpa Tuppad, Shreelatha H R, Aishwarya M, Nanditha U, Nishmitha K S, Varsha G Kori presented a paper on "Optimisation of water distribution network in T.Narasipura, Karnataka" at AIWC@5 – AIWC Partner Forum and International Symposium organised by Australia India Water Centre, Western Sydney University, Australia during 17th –19th November 2025.



PROJECT PROPOSALS BY FACULTY



PROJECT PROPOSAL SUBMITTED



The following is the list of Project Proposals submitted to the CPHEEO:

1. IoT-Enabled Smart Composting Units for Effective Organic Waste Management (Harnessing technology to turn waste into wealth)
2. Feasibility study of Gravity Sewerage networks (GCNet) and Vacuum Sewerage networks (VCNet) for the safe collection and conveyance of sewage in terrain-sensitive regions
3. Engineered urban mining for critical metals recovery: a promising way of material circularity
4. Green Sludge Management and Resource Recovery
5. Eco-Friendly Bioplastic Synthesis from Food Waste Starch
6. Development of Urban Climate Vulnerability Index for Water-Scarce Cities: A data-driven approach using Machine Learning Models
7. Monitoring, Surveillance and Public Health Evaluation of Water Quality in Selected Areas of Mysuru City, Karnataka, India
8. Electro-Cascade Recovery from Municipal Solid Waste: H₂ and Nutrient Salt Production

REFRESHER COURSE (RC) TRAINING

MODULES SUBMITTED



The following is the list of Training Modules submitted to the CPHEEO:

1. Disaster Waste Management & Emergency Response – Handling waste post floods, earthquakes, etc.
2. Wastewater Treatment Plant (STP) Operations & Maintenance – Day-to-day O&M tasks for operators, know-how the working of various equipments & their functioning in case of shut down, adoption of standard operating procedure as per the approved plan.
3. Preparation of DPR and cost optimization for Used Water Management – Developing project reports for funding and approvals.
4. Automation and Application of IoT & SCADA systems in project monitoring including Online Monitoring of STP Effluents using real-time data systems. Instrumentation, Control & SCADA in STPs – Automation and monitoring of STPs.
5. Advanced techniques for sewer and septic tank cleaning to sewer entry professionals and ERSU.
6. Energy Efficiency and cost economy in Pumping Systems including Operation & Maintenance of pumps and Pumping machineries.
7. Operation and Maintenance of Storm water Drainage Systems.
8. Hazardous & E-Waste Management for Urban Local Bodies – Legal framework and best practices.

FACULTY INTERACTION WITH OUTSIDE WORLD



Department of Environmental Engineering faculty- Mr. Shiva Prasad K S, along with UG students and KSPCB officials, participated in Suttur Jatra January 2025 by creating an awareness drive regarding Ban of single use plastic and promoting use of cloth bags. This created good impact on people who had gathered in the jatra



Clean up drive at Chamundi Hill
Karnataka State Pollution Control Board, Mysuru organized a Plastic cleanup drive in association with Sri Chamundeshwari Temple authorities, PDO Chamundi Hill on the premises of Chamundi Hill on 6th February 2025. Dr. Sadashiva Murthy B M, Professor & Head, Dr. Vishishtta Nagaraj and Mr. Shivaprasad K S, along with UG students participated in the event.

Clean up and Awareness drive at Muduktoore temple- KSPCB, Mysuru organised a Cleanup and plastic ban awareness program on 17th February 2025 in association with Madilu organisation, MIT college, JSSSTU, Mysuru, and NSS unit, Talakadu. Mrs. Thanushree MS, Dr. Vishishtta Nagaraj, Mr. Chandrashekar B, Mr. Shivaprasad K S, and Mrs. Hemalatha Prabhuswamy, along with 8th-semester students, participated in the event.





World Water Day & Forest Day – 2025- An Awareness Program in view of World Water Day & Forest Day – 2025 in association with the District Administration, Mysuru, KSPCB and Madilu Education and Rural Development Society (MERDS), Mysuru on 28th March 2025.

ESG Conference 2025 and Expo on “Driving Sustainable Transformation & Aligning Business with Sustainability” jointly organized by CII, Mysuru, Department of Environmental Engineering, SJCE, JSSSTU, Mysuru, Schevaran Cleanfix Academy, Mysuru on 23rd April 2025 in IS Seminar Hall, JSSSTU, Mysuru.



Retirement Felicitation to Dr. B Manoj Kumar, Professor & Dean (Academics)

The department had organised a Retirement Felicitation on 28th April 2025 for Dr. Manoj Kumar B, Professor & Dean (Academics), who has served the Department of Environmental Engineering for more than 33 years.

Plant Sapling Activity

As part of the Retirement Felicitation for Dr. Manoj Kumar B, Professor & Dean (Academics), the department undertook a special green initiative by sapling a plant in front of the department on 28th April 2025.



Global Alumni Meet 2025

The Global Alumni Meet 2025 was organized by the JSSSTU on 12th April 2025 at 6.00 pm, and our department's distinguished alumni visited the department, had an interaction with faculty members.

M. Tech Freshers Day 2025

Environmental Engineering, final-year M. Tech students, welcomed first-year M. Tech students by organising Freshers Day 2025 in the College Auditorium. Students interacted with Department faculty members and staff, and conducted events for freshers.



Industrial Visit

Department Faculty, Staff, and First semester M. Tech Students visited the industries M/s Carlsberg India Private Limited, Nanjangud, and ITC Foods Pvt. Ltd., Nanjangud on 07th April 2025.



Industrial Visit- M/s Carlsberg India Private Limited, Nanjangud



Industrial Visit- ITC Foods Pvt. Ltd., Nanjangud



The Young Alumni Meet 2025 was organized by the JSSSTU on 26th April 2025, and our department's distinguished alumni visited the department, had an interaction with faculty members and students on the scope of Environmental Engineering, its role, and responsibility, and various job opportunities available for freshers

21st May 2025 – Pond and Kalyani Swachhatha Campaign at Bommenahalli, jointly organized by the district administration, KSPCB, JSSSTU, MIT Thandavapura, VVCE, Madilu Society, and industries. Theme: “A Clean Lake, A Healthy Future”.





31st May 2025 – Open Day 2025: The department showcased its profile, research areas, student projects, instruments, and working models. A special stall on plastic bottle reuse (by Bisleri) and a street play on single-use plastic ban were highlights.

5th June 2025 – Walkathon and Plantation Drive: Awareness rally and sapling plantation under the theme “End Plastic Pollution”, organized with District Administration, District Legal Services Authority, KSPCB, KSOU, and NGOs.



14th June 2025 – Clean-Up Drive & Awareness Session, Mysuru Ring Road (Aditya Circle – KEB Junction). Over 150 students and faculty participated, followed by an awareness program “Namma Mysuru, Swachha Mysuru” at Maharaja Grounds.

5th June 2025 – Swachh Bharat Green Pledge: All staff and students of the university signed the pledge on campus.



3rd June 2025 – Alumni Interaction: Ms. Anjana Kumari (Assistant Director, CPCB, Bengaluru; Alumnus 2005–2009) visited the department, administered the environmental oath, and interacted with staff and students.

4th–5th July 2025 – Two-Day Workshop on “Hydraulic Modeling of Networks and BIM Applications”, conducted at JSSSTU in collaboration with Arcadis India experts. The workshop coordinators were: Dr D Istalingamurthy, Mr. B P Shivakumar, Mrs. Parinitha T Niranjana and Mr. Trishul A M.



9th July 2025 – Industrial Visit: 6th-semester students visited Thorekadanahalli WTP (Malavalli) and Bengaluru STP, operated by BWSSB, accompanied by faculty.

17th July 2025 – Plastic Waste Awareness Session: Training for housekeeping staff on segregation and disposal, conducted in association with Bisleri Pvt. Ltd.



28th July 2025 – National Student Paryavaran Competition (NSPC) 2025 and a Technical Talk on “Sustainability & Climate Change” by Mr. Guru Prasad, Infosys, Mysuru.

1st August 2025 – Alumni Visit: Mr. Dhanush R. (2013–2017 batch), currently GIS Lead, The Shola Trust, Gudalur, Tamil Nadu, interacted with staff and students.



6th August 2025 – Alumni Visit: Mr. Paramesh Haluradhya (1987–1989, M.tech, batch), Environmental-Consultant, Australia, visited the department and interacted with 1st-year M.Tech students.

22nd August 2025 – Alumni Visit: Mr. K.T. Veerabhadraswamy (1992 M.Tech. batch), Senior Manager, TCE, Bengaluru, visited and interacted with final-year M.Tech students.



Mobile Ambient Air Quality Monitoring- a continuous ambient air quality monitoring event was undertaken on our campus from 04.09.2025 to 06.09.2025, in co-operation with the KSPCB, Bengaluru. The monitoring was facilitated through the deployment of their Mobile Ambient Air Quality Monitoring Station.



Industrial Visit- The Department of Environmental Engineering faculty and Research scholars visited Scheveran Cleanfix Pvt. Ltd. on 26.09.2025.



Industrial Visit to Scheveran Cleanfix Pvt. Ltd.

Cleanup drive and an Awareness session & Industrial visit- In view of Suvarna Mahosthava of the Karnataka State Pollution Control Board (KSPCB), Mysuru Rural and Urban, in association with our department, organised a cleanup drive and an awareness session at the Mysuru Dasara Exhibition grounds on 10th October 2025, followed by an Industrial visit to MYMUL.



Industrial Visit- 5th and 7th semester students along with Mr. Shivaprasad K S, Dr. Vishishtta Nagaraj, Dr. Yashas S R and Mr. Vinod on 18.11.2025 to Solid Waste Management Units (Rayankere, Vidyaranyapuram, Kumbar Koppal and Jagruth).

Retirement Felicitation
Dr. D. Istalingamurthy, Professor- The department had organised a Retirement Felicitation for Dr. D Istalingamurthy, who has served the Department of Environmental Engineering for more than 35 years on 29th November, 2025.

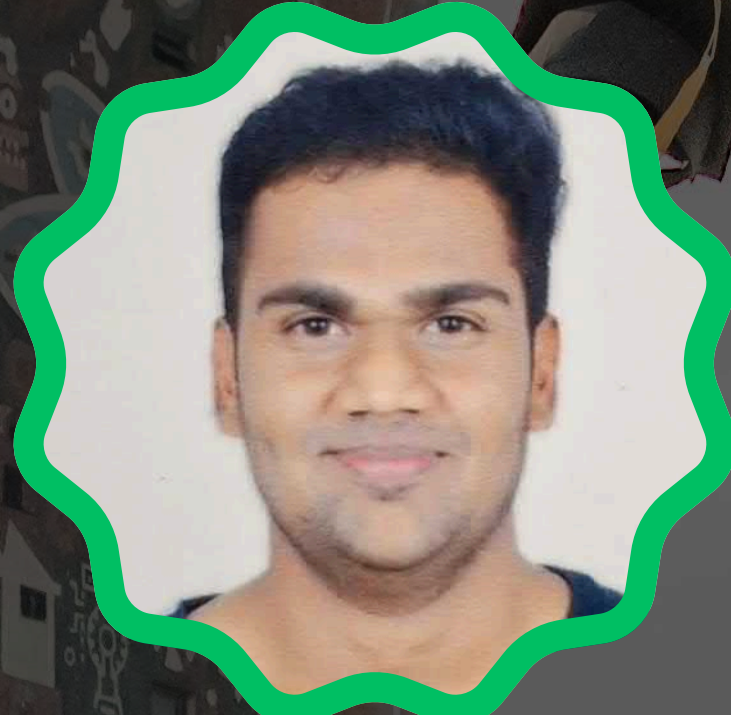


ONWARD & BEYOND

PLACEMENTS 2025-26



RAJVEER SINGH B
LTI-Mindtree
JSW



MOHAMMED FARMAN
Ascent circuits



DEEPA PAWAR
CDD Society



SWARA SRIKANTH
NEO - Impact



SOUJAN PATIL
Tata Consulting
Engineers (TCE)



ARCHI JAIN
Sabic Technology Centre
(Internship)



BRUNDA B
Sabic Technology Centre
(Internship)

Congratulations...!!

*Best wishes from
staff and faculty...!!*

An illustration of an astronaut in a blue suit with orange patches, floating in space above a large blue planet. The astronaut has their eyes closed and arms outstretched. In the background, there are several white and orange stars. At the bottom, a red rocket is launching upwards, leaving a trail of orange flames. A large orange swirl is also visible on the right side of the planet. The overall scene is set against a light blue background.

"Stop dreaming
and start doing."

THANK YOU



Department of
Environmental Engineering

Scan for our official Instagram page

SCAN ME

