

## VISION

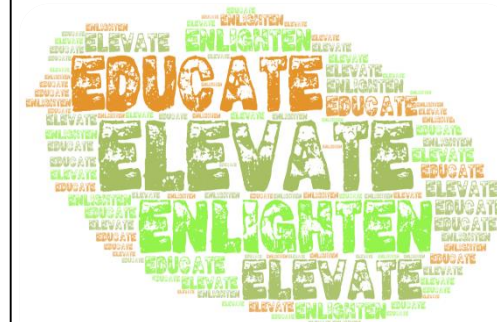
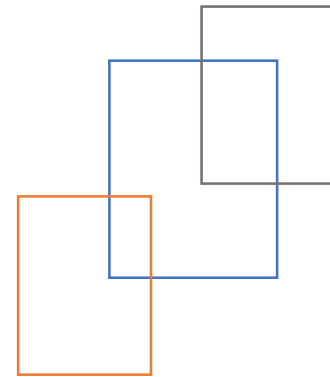
To produce knowledgeable, skilled and committed Environmental Engineers with adequate input from humanities, science, engineering and technology to effectively tackle the challenging Environmental problems of the contemporary world and to be the **Centre of Excellence** in Environmental Engineering Education,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

## DEPARTMENT OF ENVIRONMENTAL ENGINEERING

Started as an offshoot of Civil Engineering, a humble beginning was made in 1987 as Centre for Environmental Science and Technology (CEST) to promote and start a new programme in Environmental Engineering catering to the needs of the developing society. M.Tech. (Environmental Engineering) with the financial support from CPHEEO, Ministry of Urban Development, Govt. of India New Delhi were started under the umbrella of CEST in the year 1987. In the year 1993, the Govt. of Karnataka has accorded grant in aid status to the department and since then the Department of Environmental Engineering is working as a full-fledged academic and research department. The Department has a blend of senior, highly qualified, dynamic and highly motivated faculty who have national and international exposure and expertise in their chosen areas of interest. The Department is well known in the State as well as in the country for its quality education being offered. The Alumni of the department have made a niche through their exemplary contributions for the organizations they are working for.



## PROGRAMS

- B.E. in 'Environmental Engineering'
- M.Tech. in 'Environmental Engineering'
- M.Tech. in 'Health Sciences and Water Engineering'.



## Laboratory and Computing Facilities

Department has adequate laboratory facilities for conducting practical classes and to carryout research and consultancy activities. Many of the laboratories were developed using funding by National agencies such as AICTE, MoEF, DST, UGC, DRDO-NRB and TEQIP.

The department has sophisticated equipments including Inductively Coupled Plasma emission spectrometer, High Performance Liquid Chromatography, UV-VIS Spectrophotometer, VOC Analyzer, Gas Chromatography, Tintometer, Ion Analyzer, Microbial Air Sampler, High Volume Air Samplers, Cooling Centrifuge, TKN Unit, Vehicle Exhaust Analyzer, etc. In addition, many onsite water quality monitoring instruments and software are available for academic, research and consultancy purposes.

Course	Validity period		
	Years	From	To
B.E. in Environmental Engineering	05	11.12.1998	10.12.2003
	03	19.07.2008	18.07.2011
	03	01.07.2018	30.06.2021
M.Tech. in Environmental Engineering	03	19.07.2008	18.07.2011
	05	18.09.2013	17.09.2018
	SAR submitted		

The B.E. program and the M.Tech. program in Environmental Engineering are accredited by NBA of AICTE, New Delhi

## Key Subjects offered

Water and wastewater systems, Air pollution control, Solid-hazardous-biomedical waste management, Environmental microbiology and ecology, Environmental impact assessment, Water resources, Fate and transport of contaminants, Remote sensing and GIS, EHS, Disaster management, Environmental statistics, Design and drawing of environmental systems, industry visits and innovative research, and various relevant laboratories.



## Industrial Certification Courses

Department is involved in an interdisciplinary Certified Program for Facility Management.



## Salient Features

- World Bank funded integrated Rural Water supply and Environmental Sanitation project for 280 villages.
- DANIDA Program on Dental Fluorosis in collaboration with AIIMS New Delhi.
- South Zone Regional center under National drinking water mission.
- Key Institute for Indian Training Network for Water and Sanitation.
- India field leg component of Bradford Training Program in WATSAN.
- Funding of Research projects from various organizations.
- **Faculty** - The Faculty in the Department are highly qualified, dynamic, motivated, with acquired technical expertise and critical thinking skills. Faculty have a good publication record in their areas of specialization, as well as actively involved in sponsored Research and Development (R&D) and Consultancy. Faculty members have organized various Finishing Schools, GIAN programs, Seminars and Workshops, Invited Technical talks and Industry-Institute Interactions. Faculty also have international and national exposure in various fields of expertise, continuous education programs and non-formal education. They are also members of various governmental statutory bodies.
- **Student Technical Club** - The department has Environmental Engineers Association, conducting various activities like Walk for Water, Clean drive on Chamundi hills, Photography contest, beat plastic pollution, Swachhatha drives, campus greening, world environment day, etc. The department is also involved in environmental conservation related activities for the university adopted village.
- **Student activities** - Students undergo internships, actively participate in technical fests, industrial visits, technical field visits. In addition, our students are involved in sports, cultural fests and literary events.



## Industry Institute Collaboration

- Department has collaborated with 'Seeds of Sustainability', an NGO coordinating research mentoring program, for BE and MTech students, with an orientation to bring industry, institution, and society for research on community-related issues. Other agencies including Karnataka State Pollution Control Board, Mysore, American Society of Safety professionals, Region IX, area 3, Consortium of accredited health care organization (CAHO) are collaborating with the NGO in this initiative.
- MoU with other 22 premier institute from India and Australia to form Australia-India Water Centre with an overall aim to develop longer-term collaboration in water research, capacity building and knowledge and technology transfer, particularly focussing on water and food security, safe drinking water supplies, river health, water-energy-food nexus, water for liveable cities and other related aspects of mutual benefits to Australia and India.
- Involvement in NCAP COALESE consortium



### Research area

Faculties are actively involved in applied and industrial research and are recognized as research guides to supervise Ph.D. and M. Sc., (engg.) by research programs.

The research areas of focus are:

- Advanced water and wastewater design and treatment
- Water supply and quality in distribution system
- Modelling of environmental systems
- Environmental Impact assessment
- Industrial waste management
- Indoor outdoor air pollutant dispersion studies
- Water resource management
- Solid and hazardous waste management
- Groundwater quality management
- Health care management

Ecological sanitation



### Consultancy

- Urban WATSAN systems
- Rajiv Gandhi National Drinking Water Mission (RGNDWM) for Rural water supplies
- GEMS and MINARS
- Industrial wastewater treatment plant design, water and wastewater quality analysis
- Air pollution dispersion studies
- River water quality modelling studies
- design of water distributing systems
- ETP audit
- Green audits
- Laboratory services for technical institutions and water quality analysis
- Design and development of eco-toilets for rural community.
- EIA projects
- HPCL pipeline project
- MoEF sponsored project on design of wastewater treatment system at Kavaratti Island, UT of Lakshadweep.
- Scoping studies supported by UN through WEDC, University of Loughborough, UK.

MAJOR RECRUITERS



### Testimonial from Students, Alumni

The distinguished Alumni have made a niche through exemplary contributions to the needs of the society and also realizing their dreams of high echelons. Our Alumni have served/serving in areas of prime importance in various capacities, such as Chief Engineers in water board/ Government Sectors, Scientific officers in CPCB and SPCB, as managers in private and public sectors (HUDCO) sectors, and as well as Academicians in reputed universities.



**Dr. K.R. Sree Harsha**  
Chairman, State Level Environmental  
Impact Assessment Authority; class of  
1990-94

I feel proud to be an alumni of department of Environmental Engineering of SJCE, Mysuru. I always feel that this department is a cradle for Environmental Engineers who have made a mark in the field not only in India but across the Globe. I am deeply indebted to all my professors and non-academic staff of the department for their support in all my pursuits. I wish the students a bright future and the department of Environmental Engineering all the glory and academic excellence in the years to come.



**MS Student, Texas A&M University,**  
Texas, USA; batch of 2014-2018

As niche as Environmental Engineering is, I am glad I was a student of SJCE Environmental department. The learnings I had from my undergraduate studies continue to help me during my career. The department has some great teachers who I will be thankful for life.



It was my immense fortune to study under competent professors in Environment dept. which opened up a world of opportunities for me and enabled me to pursue a career as an Environmental professional.

Senior Engineer, Toyota Kirloskar Motor Pvt. Ltd.,  
Bengaluru; Class of 2009-2013

I feel I have been very lucky to have had the opportunity to be taught by some of the best, highly qualified and experienced professors in the field of Environmental Eng. at JSS SGTU. The curriculum of environmental engineering is so well designed to ensure solid base of theory and the project based learning approach which enables a student to think practically while tackling any problem as part of a course project. One of the best things is good faculty-student ratio, state of the art and well managed laboratory facilities and latest computational facilities, implementation of remarkable and innovative project based pedagogy, which has helped in developing key skills like problem solving, critical and analytical thinking, practical application of knowledge, leadership, management, essential to face the real world challenges.



Nishchal C.  
M. Tech Env. Engg.  
CPCB (MoEF&CC, GOI)  
(2016-18 batch)





*Graduating from JCE has been a life-defining experience. The academically rich and intellectually stimulating campus atmosphere opened my mind to the infinite possibilities of Environmental Engineering. The wholesome teacher-student engagement motivated me to aspire for higher goals always. Fruitful interactions with my peers changed my outlook on life. The JCE influence will thrive within me till my very last breath.*

Vishnu Sharma A, Assistant Professor, MIT, Manipal,  
India; batch of 2009-13

### **CONTACT**

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