




## FUTURE PLANS

The department proposes to undertake research initiatives on some of the following emerging areas;

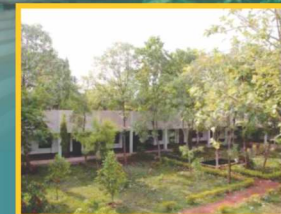
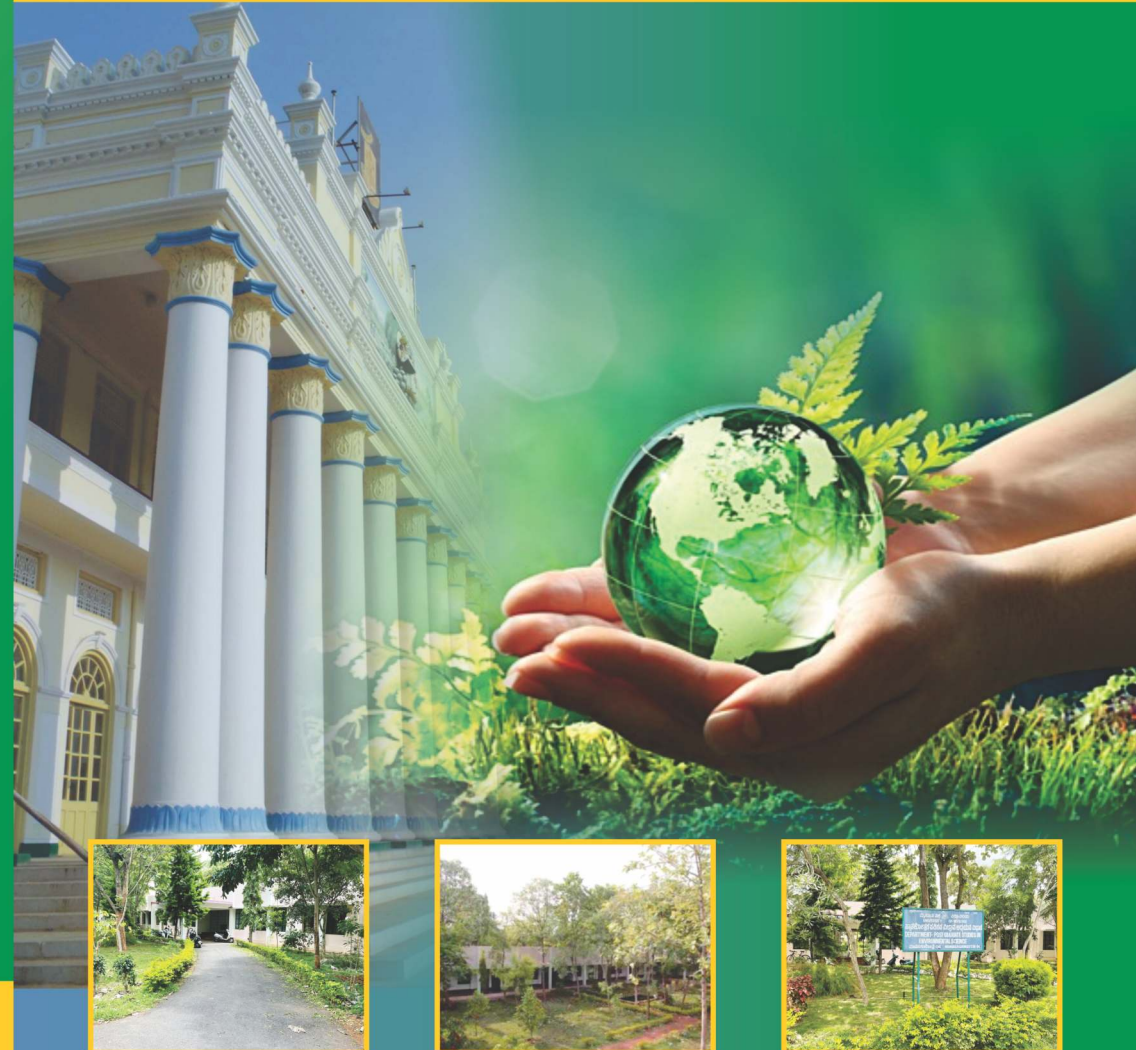
- ❑ Conservation of indigenous knowledge of tribes about medicinal plants.
- ❑ Bio-energy resources for sustainable utilization and wasteland development.
- ❑ Bio remediation of pesticides.
- ❑ Nanotechnology for Pollution management.
- ❑ Solid waste and E-waste management.
- ❑ Bio aesthetic plantation for carbon sequestration in urban areas.

## FACULTY PROFILE

NAME & DESIGNATION	SPECIALIZATION	CONTACT DETAILS
 <b>Dr. N. S. Raju</b> Professor and Chairman	Environmental Biology, Environmental Microbiology	+91-821-2419630 nsr@envsci.uni-mysore.ac.in rajunsenv2019@gmail.com
 <b>Dr. G. V. Venkataramana</b> Professor	Environmental Toxicology, Hematology	+91-821-2419371 venkataraman_1970 @ yahoo.co.in venkataraman@envsci.uni- mysore.ac.in
 <b>Dr. S. Srikantaswamy</b> Professor	Environmental Earth Science, Wastewater management, Nanomaterials, and Carbonnanotubes	+91-821-2419555 srikantas@hotmail.com srikantaswamy@envsci.uni- mysore.ac.in



# DEPARTMENT OF STUDIES IN ENVIRONMENTAL SCIENCE

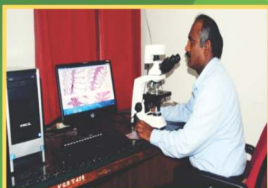


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**University of Mysore, Manasagangothri, Mysore -570 006**  
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## GENESIS

The Department of Studies in Environmental Science was established in the year 1992 under the stewardship of Prof. P. Venkataramaiah, at the Department of Studies in Physics. The Department was subsequently headed by the coordinators Prof. J. Shashidhara Prasad and Prof. Nagappa, later Prof. P. Venkataramaiah and Prof. J. Shashidhar Prasad became Vice-chancellors of Kuvempu University and University of Mysore respectively. Later, in the year 1999, Prof. S. L. Belagali and Prof. A. G. Devi Prasad were appointed as coordinators. In the year 2012, the department got independent status and Prof. S. L. Belagali became the first Chairman of the department and served for 03 terms. Then Prof. A. G. Devi Prasad became the chairman for 02 terms. Presently, Prof. N. S. Raju is the Chairman of department.



## NATIONAL STATUS

The faculties have undertaken several individual and collaborative research projects with regional, national and international importance, from various funding agencies like Department of Science and Technology (DST), Department of Bio-Technology (DBT), Ministry of Environment and Forests (MoEF), University Grants Commission (UGC), Philips, Institute of Excellence (IOE-MHRD), EMPRI. The department is encouraging interdisciplinary research work with national research institutes such as CFTRI KSPCB, and sister departments of the University. The department will also offer offering free consultation services to the public as well as industries regarding Environment related issues such as EIA of developmental projects, assessment of water quality, wasteland development and Conservation of Biodiversity.

## MISSION AND VISION

The mission of the Department of Environmental Science is to undertake quality research and institutions in providing insight on the interactions between different forms of life. These insights allow us to understand natural changes in the environment, challenges in supplies of natural resources, protection of environment and to monitor and predict the impacts of pollution. Our vision is to coordinate strategically oriented group that contributes in developing environmentally sustainable responses to current environmental issues and problems through practice-based training, integrated and focused research program to ensure expertise and technical knowledge to students, researchers and common man.

## COURSES

### M. Sc. DEGREE

**Duration:** 2 years

**About the course:** The program is of semester scheme, involves four semesters. As the course is multi-disciplinary and inter-disciplinary, teaching mainly focuses on various subjects. A study-tour to different industries and treatment plants for practical understanding of the subject is mandatory every semester. Along with the theory and practical classes, a project work is mandatory in the fourth semester, which is under the supervision of Faculty members helping the students for their career in future.

**Eligibility:** Any science graduate from any national and international recognized university is eligible to apply.

### Ph. D. PROGRAM

**Duration:** 3-7 years

**About the course:** The Department offers Ph. D program that prepares promising students in the various disciplines of Environmental Science. A six months course work is mandatory for registration. Periodic assessment of the candidate and his/her research work will be carried out based on the quality of research publications in peer reviewed journals.

**Eligibility:** Candidates with M. Sc Degree in Environmental Science and allied subjects from any national and international recognized University are eligible to apply. Selection is based on the entrance exam conducted by the University followed by an interview. Fellowship holders are exempted from the entrance exam.



Research Outputs	Numbers
Ph. Ds Guided	90
Publications	450+
National Journals	170+
International Journals	280+



## INFRASTRUCTURE

The Department is comparatively new and is still developing with limited research facilities. A separate block with spacious research laboratories have been set-up in the year 2012. The facilities in the Department include: Wi-Fi connection, Seminar halls with advanced projector system, Instruments such as: PCR unit, Gel Electrophoresis unit, Gas Chromatography and High Speed Defreeze Centrifuge, PM 2.5, PM. 10 and respirable dust sampler, Real time PCR, Ultra probe sonicator, Nitrogen evaporator, -20C° deep freezer, Microtome, Centrifuge (10,000rpm), Electrophoresis unit, Double distillation unit, UV and visible spectrophotometer, Vortex (100 capacity), BOD incubator, Gradient thermal cyclers, Microscope, Epi-fluorescence, phase contrast, stereo binocular with digital imaging, Inverted Trinocular and fluorescence with CCD Camera.

## HEALTHY PRACTICES

- ✓ Conducting seminars, symposia and conferences to provide a platform for academic benefit.
- ✓ Conducting exhibition and rallies to create environmental awareness in public.
- ✓ Extending research facilities and expertise available within the Department to Industries (through the University-Industry Interaction Centre) and State Pollution Control Board as a part of consultancy program.

## ENDOWMENTS INSTITUTED

- ❖ Jindal Jubilee Gold Medal
- ❖ Smt. Basavaraju Gemini Distilleries Endowment Gold Medal
- ❖ Late B. Basavalingappa Memorial Trust Endowment Gold Medal
- ❖ Smt. Meenakshamma Chandrashekar Gold Medal
- ❖ Prof. S. L. Belagali Endowment Gold Medal
- ❖ Murthy's Cash Prize For Excellence



## M. Sc Environmental Science course papers

### Hardcore

- Environmental Chemistry
- Environmental Geology
- Environmental Microbiology
- Water and Wastewater Management
- Environmental Toxicology
- EIA, Environmental Policy and Laws
- Environmental Biology
- Air, Noise and Radiation Pollution
- Disaster Management
- Conservation of Biodiversity
- Solid Waste Management

### Softcore

- Green Technologies
- Environmental Statistics
- Environmental Planning and Sustainable development
- Occupational Health and Safety
- Remote Sensing and GIS
- Environmental Biotechnology
- Climate Change and Current Issues
- Natural Resources Management
- Marine Ecology and Coastal Pollution

### Open Elective

- Environment and Health
- Environmental Pollution and Management
- Nuclear & Bio Medical
- Waste Management
- Ecology & Environment

