



**MSc**

**ENVIRONMENTAL**

**SCIENCE**

Specialisation in

**Sustainable Development**

**About**

## MSc Environmental Science at SRM University-AP

MSc Environmental Science at SRM AP is a multidisciplinary programme aimed at Science or Engineering graduates looking to specialise and enhance skills to be at the forefront of environmental science and sustainable development. We offer a full-time, 2-year programme consisting of 84 Credits with large flexibility that allows the students to choose from a broad spectrum of electives to specialise in various fundamental and applied areas of their interests aligned with United Nations Sustainable Development Goals.

### Research Highlights

165

Research  
Publications

7.91

Average  
Impact Factor

10

Patents

5

Government  
Founded Projects

1.75  
Crore

Total Outlay for  
Research Projects

## Why

# MSc Environmental Science at SRM AP?



**Ideal location:** Proximity to one of the 36 global biodiversity hotspots - Western Ghats; Biodiversity-rich forests of the Eastern Ghats; Bay of Bengal; and one of the global wetlands deemed to be of international importance under the Ramsar Convention (Kolleru Lake). Location of our University provides a great opportunity for students to conduct regular field trips to study the most pressing environmental issues.



**Research Intensive program:** 20 credits (i.e., 25% of the total coursework) is dedicated only to research projects allowing students to pursue intensive research under faculty mentors who will guide for research publications in reputed international journals.



**Vibrant Research Environment:** Highly dynamic faculty, scholars and fellows specialised in a broad array of research areas with a proven research track.



**Unparallel Curriculum:** Option to select courses from variety of electives aligned in Research and Industrial tracks to meet global industrial demand and various research domains. Students can choose courses and build their own curriculum based on their passion and interests.



**Broad Spectrum of Specialities:** Specialise in topics of your interest and global significance (Ecology & biogeochemistry of terrestrial and aquatic systems; Climate change modelling & atmospheric processes; Techno-economic analysis, Microplastics, Solid Waste Management, etc.)



**One Course, Many Labs:** Opportunity to work in the Central Environmental Science Laboratory and several specialised laboratories including Resource Management Lab, Net Zero Lab, Aquatic Ecology & Biogeochemistry Lab, Terrestrial Ecology and Modelling Lab (TEaM), Hydrology Lab.



**Summer internship:** Mandatory summer internships in national or international research institutes/industries based on your interests and career/research orientation.



## Department of Environmental Science and Engineering

The Department of Environmental Science and Engineering explores various aspects of human-environment interactions and works on developing long-lasting, sustainable solutions for the most pressing environmental issues. Faculty with immense experience from highly reputed international and national institutes provide training to students towards solving environmental issues on a local to global scale.

### About

We are offering an MSc Programme in Environmental Science focusing on sustainable development and a PhD programme in Environmental Science with a broad spectrum of specialisations, including Biogeochemistry, Sustainable Applications, Process Design & System Analysis, Resource Recovery from Urban Wastes, and Solid Waste Management. Apart from that we are providing Environmental Science as a Value-Added Course to all undergraduates. We offer laboratory courses which cover experiments well-equipped with diverse research facilities where students can gain hands-on experience.



# Faculty Team and Specialisations



**Dr Rangabhashiyam Selvasembian**

Associate Professor and Head

**Core Research Areas**

Adsorption, Bioremediation  
Waste Valorization



**Dr Karthik Rajendran**

Associate Professor

**Core Research Areas**

Techno-Economic Analysis, Biogas Production  
and Energy Recovery



**Dr Pankaj Pathak**

Associate Professor

**Core Research Areas**

Solid Waste Management,  
Waste to Energy & Circular economy  
E-waste recycling and metal recovery



**Dr Shoji D Thottathil**

Assistant Professor

**Core Research Areas**

Carbon biogeochemistry of aquatic ecosystems,  
Methane emissions from inland waters,  
Landscape-level regulation of aquatic  
greenhouse gas emissions



**Dr Javid Ahmad Dar**

Assistant Professor

**Core Research Areas**

Forest carbon dynamics,  
Monitoring forest structure and  
adaptations, Plant invasions



**Dr Deep Raj**

Assistant Professor

**Core Research Areas**

Environmental Monitoring, Pollution Review  
Soil and Water Pollution, Phytoremediation,  
Environmental Biotechnology  
Mercury and Heavy Metals Analysis,  
Risk Assessment, Microplastic Estimation



**Dr Kousik Das**

Assistant Professor

**Core Research Areas**

Coastal Hydrogeology,  
Extreme Climate,  
Water Security and Health



**Dr Deblina Dutta**

Assistant Professor

**Core Research Areas**

Waste valorization  
Recovery of Metals from E-waste,  
Risk Assessment and Life cycle Assessment  
Carbon accumulation in aquatic ecosystem



**Dr Debajyoti Kundu**

Assistant Professor

**Core Research Areas**

Microbial Fermentation Technology  
& Enzymology Integrated Biorefinery  
Bioprocessing



**Dr Subashree Kothandaraman**

Assistant Professor

**Core Research Areas**

Geospatial Technology,  
Ecological Modelling,  
Machine Learning



**Dr Saikat Sinha Ray**

Assistant Professor

**Core Research Areas**

Membrane Technology and Membrane Fabrication,  
Seawater Desalination Self-Cleaning Surfaces for  
Environmental Applications



**Dr Niravkumar P Raval**

Assistant Professor

**Core Research Areas**

Water and Wastewater  
treatment techniques,  
Materials synthesis for  
environmental applications,  
Contaminants fate and remediation

# Academic and Research Labs

The students will have the opportunity to work in the Central Environmental Science Laboratory as well as several specialised laboratories enabling them to use sophisticated high-end instruments to do cutting-edge research.



ICP OES



CHNSO Analyzer



Automatic Chemistry Analyzer



Self-Learning Bioreactor

## Career Opportunities

### Private Sectors Jobs

- ▶ Environmental Auditor/Environmental Analyst/Environmental Consultant
- ▶ Laboratory Supervisor/Environmental Officer/Waste Management Officer
- ▶ Environment Health & Safety Specialist/Water Resource Specialist
- ▶ Manager – Environmental Sustainability/Climate action analyst/Environmental Data Analyst
- ▶ Lecturer/Research Assistants/GIS Specialist/Analysts in Environmental Laboratories

### Public Sectors Jobs

- ▶ Lecturer/Consultants in Environmental Science
- ▶ Water quality experts in Central and State Pollution Control boards
- ▶ Scientist in MoEFCC, Pollution Control Boards, WII, DBT, SERB-DST, IUFRO, FSI, CIFOR, UNEP, ICFRE etc.
- ▶ Technical officers in CSIR/ICAR/MoES/MoEFCC Laboratories and India Meteorological Department

### Research Career



The Department of Environmental Science and Engineering offers a full-fledged PhD Programme and a Postdoctoral Fellowship in Environmental Science and Engineering. The ongoing research in the department revolves around three thematic areas: Climate Change, Biogeochemistry, and Circular Economy.

## Contact Us

Head of the Department  
Dr Rangabhashiyam Selvasembian

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