



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

247

Research
Publications

7.8

Average
Impact Factor

13

Patents

12

Projects

2.69
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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For Admissions: <https://srmap.edu.in/admissions/>