SRM UNIVERSITY *AP*
Andhra Pradesh

M.Sc. Environmental Science

at SRM University-*AP*

M.Sc. Environmental Science at SRM University-*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 considerable 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

322	2.77 Cr	7.91	17 (13 Published, 4 Granted)	5
Publications	Project Outlay	Average Impact Factor	Patents	Government Funded Projects

About the Department of Environmental Science and Engineering

The Department of Environmental Science and Engineering at SRM University-*AP* is where diverse aspects of human–environment interactions are explored under one scholarly roof. If you are interested in studying ecology and biogeochemistry of terrestrial and/or aquatic systems to understand ecosystem response to ongoing global climate change and anthropogenic pressures, or you are inspired to specialise in energy production, water treatment, and nano-catalyst synthesis for a sustainable future, or would like to go the techno-economic analysis route for a sustainable bioeconomy, or looking for a career in solid waste management to reduce environmental burden and produce secondary resource, we provide a unique platform. Our stimulating environment allows students to follow their passion and look at today's most pressing social and environmental issues under the supervision of highly dynamic faculty members.

Why M.Sc. Environmental Science at SRM *AP*?

1

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

2

Research Intensive programme
20 credits (i.e., 25% of the total coursework) is dedicated only to research projects allowing students to pursue intensive research under well-established faculty leading to research publications in reputed international journals.

3

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, etc.)

4

Unparallel Curriculum
Design your curriculum that is research and industry-oriented with a large number of electives to meet global industry standards and research requirements.

5

Vibrant Research Environment
Highly dynamic faculty, scholars and fellows specialised in a broad array of research areas with well-established pedagogy and a proven research track.

6

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

7

Summer Internship
Mandatory summer internships in national or international research institutes/industries based on your interests and career/research orientation

8

Financial Assistance to Attend International Events

9

Research Grants to Support Independent Projects

Faculty Team and Specialisations

Dr Rangabhashiyam S
Associate Professor and Head

Core Research Areas:
Adsorption, Bioremediation, Waste Valorization

Dr Karthik Rajendran
Associate Professor

Core Research Areas:
Techno-economic analysis, Sustainability metrics and indicators, Waste management and bioenergy systems

Dr Pankaj Pathak
Associate Professor

Core Research Areas:
Solid Waste Management, Waste to Energy, E-waste recycling and metal recovery, Circular Economy

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

Dr Subashree Kothandaraman
Assistant Professor

Core Research Areas:
Geospatial Technology, Ecological Modelling, Machine Learning

Dr Debajyoti Kundu
Assistant Professor

Core Research Areas:
Microbial Fermentation Technology & Enzymology, Valorization of wastes and biomass- Bioenergy, Biochemicals and Biomaterials, Circular bio-economy and Sustainable Development Goals

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

Dr Vigneswaran V S
Assistant Professor-Ad hoc

Core Research Areas:
Decarbonization, Bio-energy technologies. Solar desalination and water treatment

Dr Nirmalendu Sekhar Mishra
Assistant Professor

Core Research Areas:
Advanced Oxidation Processes, Adsorption, Nanomaterials for Energy and Environmental Applications

Dr Uttiya Dey
Assistant Professor-Ad hoc

Core Research Areas:
Bioremediation of Arsenic Groundwater Contamination Aquatic Microplastic Distribution

Dr Narayanamoorthy B
Assistant Professor

Core Research Areas:
Electrocatalysis Nanomaterials for Energy & Environmental Applications Low Temperature Fuel Cells and Hydrogen Energy Technology

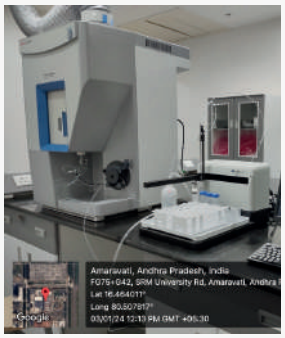
Dr Prabakaran G
Assistant Professor-Ad hoc

Core Research Areas:
Renewable Energy, Energy and AI, Energy Modelling and Optimization

Dr Prasun Goswami
Assistant Professor

Core Research Areas:
Antimicrobial Resistance (AMR) in the environment, Emerging pollutants, Microplastics in food web

Academic and Research Labs



ICP-OES

CHNSO Analyzer

Automatic Chemistry Analyzer

Self-Learning Bioreactor

Career Opportunities

Private Sector

- 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 Sector

- 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 Indian Meteorological Department

Research Career

The Department of Environmental Science and Engineering offers a full-fledged Ph.D. 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

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Department of Environmental Science and Engineering

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For Admissions: https://srmap.edu.in/admission-india/seas-msc-programme/