



# School of Earth Sciences

## Department of Environmental Science

(DST-FIST Supported Department)



The Department of Environmental Science came into existence under the School of Earth Sciences at the Central University of Rajasthan in July 2011. The Master's program in Environmental Science was started as the flagship program of the department with the immediate effect. In the following Academic year 2013 – 2014, Integrated M.Sc. (5-year program) and full-time Ph.D. programs were introduced in the department. All the programs follow the NEP-2020.

### Program Offered

- Integrated M. Sc. Environmental Science (05 years)
- M. Sc. Environmental Science (02 years)
- Doctor of Philosophy (Ph.D.)

### Faculty members

Faculty	Specialization
Prof. Rajesh Kumar	Glaciology, Climate Change Impact Assessment on Snow & Glaciers, Water Quality & Quantity Assessment in Snow & Glaciers fade river systems in Himalayas, Air pollution monitoring & assessment, Applications of Remote Sensing & GIS in Cryosphere research.
Prof. Laxmi Kant Sharma	Environmental Remote Sensing applications (Optical, Microwave, Hyperspectral & LiDAR), Biomass & Biodiversity assessment, Environmental Monitoring & Climate Change, Natural Resource Management & Sustainable Development.
Dr. Pramod Kamble	Soil microbial ecology, Bioremediation, and Medicinal plants study.
Dr. Garima Kaushik	Bioremediation, wastewater treatment, Bioprocess engineering, Enzyme kinetics, Remediation of emerging contaminants.
Dr. Ritu Singh	Nanoparticle based environmental clean-up technologies, Waste-water treatment, monitoring and analysis of environmental pollutants, Micro-extraction techniques.
Dr. Shailesh K. Patidar	Synthetic ecology and biology for bioremediation, biofuel and by products, carbon sequestration, heavy metal contamination and Eco physiology.
Dr. Nivedita Chaudhary	Air Pollution, Climate Change Monitoring and Effects on vegetation.
Dr. D. Bhagawan	Environmental Pollution Remediation & Waste refining for value added products.

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## Research Profile: Projects, Grants & Papers

• Total No. of Projects Completed: 12 No. of Ongoing Projects: 6+

• Total Grants sanctioned in last five years : Rs. 1.8 Cr.+

• Total No. of Publications in last five years: 100+

## Prominent Alumni

Prominent Alumni	Present Position
Dr. Rajit Gupta	Post-doctoral Fellow, University of Turku, (Finland)
Dr. Alok Raj	Earth Data Scientist at Food and Agriculture Organization (United Nations)
Ms. Bhawana Choudhary	Research Officer, UNFCC
Dr. Pankaj Kumar Gupta	Adjunct faculty, University of Waterloo, Ramanujan Fellow-IIT-Delhi
Dr. Swatantra Dubey	Postdoctoral Fellow, Seoul University of Science and Technology, South Korea
Ms. Kritika Somawat	Scientific Officer, Rajasthan Pollution Control Board



## Placements

UNCCF, FAO,  
University of  
Turku, Rice  
Institute, India  
Finland, CPCB &  
SPCB and IITD

## Major Laboratories

- Environmental Microbiology Lab.
- Environmental Biotechnology Lab.
- Remote Sensing & GIS Lab.
- Air Monitoring Lab.
- Soil and Water Analysis Lab. And
- Instrumentation Facility

## Instruments and Softwares

- Touch Thermal Cycler (PCR)
- e Cognition, ERDAS Imagine, ArcGIS, ENVI
- Ion Chromatography
- HPLC, UV-Spectrometer,
- Fluorescence Microscope
- Ambient Air Quality Monitoring