



Faculty of Science



Shree Ramkrishna Institute of Computer Education & Applied Sciences

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Annual activity report 2023-24

The academic year 2023–24 was an important period for the Department of Environmental Science because SRKI was operating within the Sarvajaniik University framework while adapting to the evolving National Education Policy-oriented academic structure. The official department page now documents the transition from the earlier syllabus to the NEP 2023–24 and NEP 2024–25 structures, with Environmental Science courses integrating geology, microbial ecology, pollution control, GIS and remote sensing, environmental microbiology, nanoscience, environmental biotechnology, climate and disaster-risk assessment, waste management, ecotoxicology and environmental legislation.

Major Departmental Activities

Sr. No.	Activity / Programme	Nature	Academic / Social Outcome
1	NEP-oriented curriculum transition	Academic development	Environmental Science curriculum was reorganized into multidisciplinary, skill-enhancement and discipline-specific components.
2	World Environment Day / environmental awareness outreach	Awareness	Environmental and safety week themes continued through online and outreach-based programmes. UNEP event 1000 participation, Safety week quiz 262 participation.
3	Research publications and student project orientation	Research	Faculty and students engaged in environmental, soil, biotechnology and sustainability-oriented research. Dr. Bhavin Bhatt, Dr. Pratik Patel and Dr. Ratna Trivedi published 5 research paper and 1 book chapter corresponded.
4	Geospatial and environmental laboratory training	Hand's on Session with IIRS and ISRO	GIS, remote sensing, environmental instrumentation and laboratory analysis remained under IIRS training; 30 students take part in training. This year we started ISRO-START (Space Science and Technology Awareness Training) in which total 300 students enrolled for this course.
5	Interdisciplinary environmental biotechnology and soil research	Research collaboration	Environmental Science faculty, Dr. Bhavin Bhatt contributed to research on soil conditioning, biofertilizers and plant-growth-promoting technologies with Dr. Deepesh Bhatt.

Academic Transformation and NEP Alignment

The 2023–24 academic period corresponds with SRKI's transition toward the newer curricular framework. The department website lists a 2022–23 syllabus followed by NEP 2023–24 and NEP 2024–25 syllabi. The B.Sc.

Environmental Science structure includes discipline-specific courses, skill-enhancement courses, multidisciplinary learning and applied environmental subjects. The curriculum places strong emphasis on pollution control, GIS and remote sensing, environmental microbiology, environmental biotechnology, climate and disaster-risk assessment, waste analysis and management, ecotourism and sustainable development, environmental legislation, ecotoxicology and health. This provides a broad academic framework connecting science with contemporary environmental problems. This year we started ISRO-START (Space Science and Technology Awareness Training) in which total **300 students** enrolled for this course.

Research and Scholarly Development

Research remained a central departmental activity. SRKI describes active intramural research, student dissertation projects, postgraduate research supervision, conference participation and consultancy/audit engagement. Research associated with the department and its interdisciplinary collaborators during this period included soil and sustainable agriculture themes. A 2024 publication lists Ratna Trivedi of SRKI's Environmental Science Department as a co-author of research on an esterified conditioner and repairing agent for salinity-affected agricultural soil, while another 2024 publication lists her contribution to work on chitosan-coated immobilized algal cells as plant-growth promoter. These records illustrate the department's movement toward applied environmental biotechnology and sustainable soil management. Educational tour to Anupam Rasayan, Sachin GIDC held by department. Total 60 students were interacted with students.