

About The Course

Objective: The M.Sc. course in Environmental Science at Surguja University is proposed to impart training in the diverse field of Environmental science and work for the cause of Environmental Science in central and eastern parts of India and elsewhere. For several years, there has been an increasing demand for research and monitoring of the ecological resources all over the country. Rapid industrialization and urbanization is leading towards environmental degradation across the country. Hence, environmental protection and sustainable development is the need of hour. This requires a strong scientific knowledge base with sufficient number of trained personnel for successful implementation. Pollution monitoring, Environmental Impact Assessment (EIA), proper enforcement of environmental laws and policies, conservation of diverse habitats and ecosystems, stakeholder participation and proper implementation of Corporate Social Responsibility (CSR) activities deserve utmost attention. In accordance with the vision statement, this course aims at creating a corps of environmental professionals who will effectively tackle these issues. This programme under the Surguja University will also serve as a ‘model programme’ to develop a cadre with sound expertise in several environmental aspects within Chattisgarh and the country.

Why This Course?

Environmental Science itself is an interdisciplinary course encompassing specialized understandings on ecology, fundamentals on environment, toxicology, environmental pollution, environmental impact assessment (EIA), GIS & RS, Conservation of resources, biostatistics, environmental microbiology and biotechnology, environmental economics, environmental quality standards etc. Moreover, the analytical perspective is eco-centric rather than anthropocentric. Therefore, the study of Environmental Science is attracting a special attention as an academic discipline worldwide.

Demand at the Students' End

In spite of students' increasing interest to study Environmental Science at higher levels, limited scopes are available in India

Need at the National Level

A mega biodiversity country such as India requires specialized manpower for sustainable development approaches and promoting protection and conservation of natural resources.

Why in Ambikapur?

Ambikapur is the District HQ of Surguja District, Chattisgarh with luxuriant green vegetation and majorly unexplored biodiversity. Rapid industrialization, urbanization pressure, growing consumption of natural resources calls for urgent need of environmentally sound individuals dedicating for the cause of cleaner and greener tomorrow. The place is also gifted with a considerable strength of tribal population who can be effectively trained as environmental safeguards which will contribute to their socio-economic upliftment in return.

Greenery

Nearly 44% of the geographical area of Chattisgarh is under forest cover blessed with exquisite natural beauty and panoramic landscapes; majorly unexplored. This could be very congenial for effective training of students. Besides, several pockets of industrial belts such as Bhilai, Durg, Bilaspur, Raipur, Raigarh etc also provide exposure to industrial scenario and how green endeavors can influence in reducing pollution in this region.

Career Prospects

Employment opportunity:

- Environmental Scientist has opening in Government departments, academic and research institutions, pollution control boards, as environmental law officer in private and Govt. sector, environmental biologists, research officers, quality control managers, independent consultants, conservationists, in CSRs, as planners and journalists.
- **Education Sector-** As teachers in CBSE, ICSE curriculum schools, Respective State Board schools, Colleges/ Universities/IITs/Institutes of national importance and centers of excellence.
- **Industry Sector-** Sugar mills, distilleries, fertilizer plants, mines, refineries, crop processing mills, fish processing units, automobile manufacturing units, cement factories etc.- Recruitment as HSE officers in safety departments of various industries.
- **Assistant manager** - in corporate bodies such as Reliance R&D, Reliance Foundation, Tata, Tech Mahindra, Ambuja, DLF, Vedanta, Voyants, SGS, Unitech, Asian Paints, Eureka Forbes, IL&FS, Jaypee, KSK, etc., as ETP/STP in-charge – in industries as well as municipality or municipal corporations
- **Natural Resource Manager-** Wildlife biologist, conservator officers, resource geologist, water resource specialist, soil scientist, geologists, hydrologists, policy analysts, urban and rural planner, architects, GIS&RS specialists, field station manager of ecotourism and recreation centers and as advisors to government and non government bodies in both domestic and international arena among others.
- **Consultancy jobs** in EIA sector
- **Entrepreneurship** in various consultant firms, NGOs.
- **Environmental Health and Safety sector-** Risk Assessment Specialist, toxicologist, risk communication specialist, environmental health officer, epidemiologist, Industrial hygienists and counselors.
- **Junior managers** in various governmental undertakings through SSC/UPSC examinations.
- **Trainee Officer (Environment)** in NEEPCO,NHPC
- **Semi govt. Jobs-Banks** like NAABARD ,BHEL

- **Environmental professional** - in Infrastructure, hydropower, highways, or similar fields based work.
- **Technical officer or specialist** – in Space applications in ISRO, SAC, NRSA, IIRS
- **Lab in-charge** – as Analyst in testing laboratories or with instrument manufacturer
- **Environmental professional** - in Infrastructure, hydropower, highways, or similar fields based work.

Research opportunity:

- **Research and Development:** Post of Environmental Scientist at MOEF, WII, FRI, ZSI, BSI, GB Pant Institute of Himalayan Environment and Development
- **Research fellowship:**
Young Scientist awards, INSPIRE fellowships, UGC, CSIR, DST, DBT, DAE, ICAR, DRDO, J. Nehru Memorial fund, KS Krishnan Research Associateship, DAAD (German) Fellowship, Belgian Government Fellowship, Chinese Government Fellowships under Bilateral programmes. As Post Doctoral Fellows - in USA, Germany, Sweden, Israel, Canada, Japan, Australia, New Zealand, South Africa etc.
- JRF/SRF/RA/SRA - in various prestigious institutions like NIITs, IITs, IISc, TIFER, etc.
- **Research Scientists:**
CPCB, SPCBs, ISRO, DAE, ITRC, NEERI, CPPRI, NRSA, NIH, CSIR labs, Pollution Control Committees, environmental act and policy enforcement agencies, green bench in high courts.
- **Scientific officer** – in governmental organizations and NGOs