

Modules of study

Environmental characteristics and Sustainability (earth's atmosphere, Water conservation and Management Practices);

Water quality monitoring and wastewater treatment (Types and sources of water pollution, water quality objectives);

Disaster Management – Legal, Institutional and Policy Framework (Hazards and disaster, National Disaster Management Act 2005), Disaster Mitigation, Response and Function Plans, Hazard Specific Mitigation Plan, Disaster Risk Reduction Framework);

Environmental Toxicology (Principles of Toxicology, Classes of contaminants, Biotransformation of toxicants, Mechanistic aspects of human toxicology, Heavy metals, VOC, PAH, Pesticide residues);

Environmental regulation and standards (Environmental Act, Environmental standard, environmental movement, ENVIS)

Spiritual and Cultural Heritage of India;

Research Methodology and statistical technique (Fundamentals of Research, Data Collection procedure, Basic statistics, case study & software on statistical techniques and methods);

Research ethics and advanced orientation;

Geo-informatics (DBMS, Remote sensing, Overview of GIS, Applying Geo-informatics in environmental management, Image classification, Microwave remote sensing);

Pollution and Waste Management (Air Pollution, Solid Waste Management);

Environmental Biotechnology and Bioremediations (Wastewater treatment, Biomass production technology, Tissue culture technology);

Environment, health and safety management system (ISO 14001, ISO 45001);

Risk assessment methodology (Ecological risk and human health risk assessment);

Environment Impact Assessment (Applications);

Energy analysis and environmental degradation (International energy standards)

Climate Change: Issues and Challenges (Climate variability, Climate inventory, Climate change policy research);

Human-Climate modelling (Climate model, Indices and standards of human comfort analysis, DALY);

Student workshop, Project - Dissertation work;