



# MASTER IN SUSTAINABLE DEVELOPMENT & ENVIRONMENT MANAGEMENT



**DURATION:** TWO YEARS FULL TIME (4 SEMESTERS)

**ELIGIBILITY:** B.Sc. degree / B.E or equivalent

**ADMISSION PROCEDURE:** Admissions on the basis of Written Test followed by an Interview

## OBJECTIVE:

- To inculcate the knowledge base on sustainable development with a view to balance our economic, environmental and social needs, allowing prosperity for now and future generations.
- To train students to undertake major initiatives in the efficient management of natural resources and the prevention of environmental pollution with focus on Sustainable Development.
- To equip individuals to solve problems of environmental pollution and environmental degradation through before end of pipe (BEOP) interventions, over and above the use of conventional way of end-of-pipe (EOP) interventions.
- To promote understanding of efforts that can be made at the Industry and Government level to improve the environment, the economy and the quality of life of biotic and abiotic communities.
- To use environmental management tools that help to improve the quality of environment, to assess local vulnerabilities with respect to climate, natural disasters and to achieve sustainable developmental needs.



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**JOB OPPORTUNITIES:** Candidates would have opportunity to get placement in:

- Every Industry sector (such as Automobile, Food Processing, Chemical, Pharmaceutical, Power including Renewable Energy, Textile, Fertilizer, Cement, Infrastructure, Steel, Refinery, Tyre, etc. and other industry sectors),
- Pollution Control Boards, Local Bodies including Municipal Corporations,
- Environmental Consultancy firms,
- NGO's, Banks (study feasibility of environmental projects),
- Research & Development Laboratory,
- Multi-star Hotels (manage Waste Water Treatment Facilities, Environmental Management Systems),
- Hospitals (Environmental Quality Control, Hospital Waste Management),
- Waste Management Industries
- Certifying / Audit agencies.

## COURSE CONTENTS:

### SEMESTER 1

- Environmental Chemistry
- Environmental Microbiology
- Environmental Physics & Statistics
- Environmental Monitoring
- Ecology & Biodiversity
- Practicals I

### SEMESTER 2

- Unit Operations & Process
- Air & Noise Pollution Prevention Control
- Water Pollution Prevention & Control
- Environmental Compliance Requirements
- Management of Solid Wastes
- Practicals II

### SEMESTER 3

- Industrial Safety & Hygiene
- Environmental Management Tools
- Designing of Water & Waste Water Treatment Systems
- Sustainability & CSR I
- Environmental Modelling & Computer Application
- Dissertation & Placement Grooming

### SEMESTER 4

- Information & Communication Technology(Including APTIS module)
- Sustainability & CSR II
- Risk Mangement
- Inplant Training – 3 Months