



ENVIRONMENTAL ENGINEERING & MANAGEMENT
DEPARTMENT OF CIVIL ENGINEERING
IIT KANPUR



THE DEPARTMENT

- The Environmental Engineering and Management (EEM) Programme at the Department of Civil Engineering is one of the oldest and well recognized academic programmes in environmental management in the country
- The EEM group is supported by other departments like Chemical Engineering, Chemistry, Facility for Ecological and Analytical Testing (FEAT) etc. as the environmental issues are becoming Multi-Disciplinary
- Several sponsored and consulting projects in areas like health-based air quality index, atmospheric dispersion of pollutants, air pollution monitoring and control, drinking water supply, heavy metal pollution, industrial waste treatment, biological processes, biosorption, virology, environmental systems modelling, and softwares have been completed
- The department has undertaken several projects from ISRO, CPCB, MoEF, Environment Canada, NASA, Ganga Action Plan, Indian Railways etc. and students work on these projects as a part of their thesis work

AREAS OF RESEARCH

- Physico-chemical, Biological and Ecological processes
- Water and Wastewater Treatment
- Low-cost water treatment
- Air Pollution control engineering and monitoring
- Air Quality management and modelling
- Modelling and Simulations of environmental systems
- Environmental Systems Management
- Fate and transport of pollutants in natural environment
- Biological processes and kinetics
- Heavy metals in environment
- Bioremediation of hazardous substances
- Solid Waste Management
- Advanced oxidation processes
- Environmental Health
- Fate processes of organic pollutants and parameter estimation
- Environmental Risk Assessment, EIA and EA

COURSES OF STUDY

- Physico-chemical Principles And Processes
- Ecological And Biological Principles And Processes
- Environmental Quality And Pollution Monitoring Techniques
- Air Quality And Its Control
- Fate And Transport Of Contaminant In Natural System
- Advanced Mathematics For Civil Engineers
- Ground Water Hydrology And Pollutant Transport
- Environmental Economics, Legislation And Social Impact
- Environmental Management And Impact Assessment
- Water And Waste Water Engineering.
- Atmospheric Physics And Chemistry.
- Special Topics In Environmental Engineering
- Risk Assessment

LABORATORY FACILITIES

The Department is constantly modernizing the infrastructure and laboratory facilities. It is endowed with well-equipped laboratories which help in efficient working in the research. The department is also endowed with many modern machines for easy workability. Some of them are:-

- Gas Chromatograph(GC- MS/ECD)
- Total Organic Carbon (TOC) Analyser
- Element Analyser (C-H-N-O-S)
- Atomic Absorption Spectrophotometer (AAS)
- Inductive Coupled Plasma (ICP) Analyser
- Ion Chromatograph
- High Performance Thin Layer Chromatography (HPTLC)
- High Volume Sampler
- Optical Particle Counter
- Cloud Condensation Nuclei Counter (CCNC)
- Scanning Mobility Particle Sizer (SMPS)
- Fog Chamber
- Fog Sampler
- Aethalometer
- Gas analysers (SO_2 , NO_x , O_3 , CO , gas unit)
- Optical Particle Counter (OPC)
- Automatic Weather Station



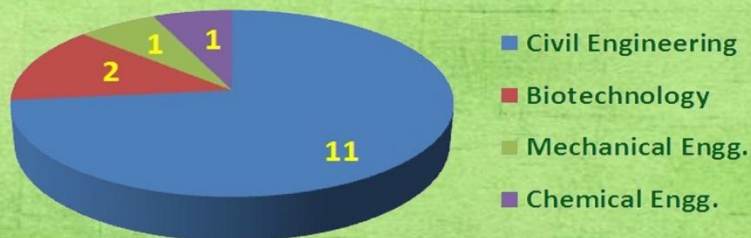
FACULTY

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PROFILES OF CURRENT MTech. STUDENTS

- Anitha Variyam Veetil B.Tech. Civil Engineering
- Ankit Modi B.E. Civil Engineering
- Ashish Yadav B.E. Chemical Engineering
- Avantika Awasthi B.Tech. Civil Engineering
- Bhitush Luthra B.E. Mechanical Engg.
- Dhananjai Kumar Gupt B.Tech. Biotechnology
- Jyoti Kainthola B.Tech. Civil Engineering
- Kaniska Biswas B.E. Civil Engineering
- Kritika Upadhyay B. Tech. Civil Engineering
- Kundan Kumar B. Tech. Civil Engineering
- Mariya Ahsan B.E. Civil Engineering
- Nikhil Rastogi B. Tech. Civil Engineering
- Quazi Ziaur Rasool B. Tech. Civil Engineering
- Saurabh Shukla B. Tech. Civil
- Vijay Kumar Pal M.Sc. Biotechnology

No. of Students





पर्यावरण विज्ञान एवं अभियान्त्रिकी केंद्र
CENTRE FOR
ENVIRONMENTAL SCIENCE
& ENGINEERING

**EEM Department building has obtained a 5
star TERI-GRIHA Green Building certification**

CONTACT US

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DEPARTMENT PLACEMENT CO-ORDINATOR

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