



భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

DEPARTMENT OF CLIMATE CHANGE



MASTER OF TECHNOLOGY (M. TECH.) IN SUSTAINABLE ENGINEERING INFORMATION BROCHURE (SELF-SPONSORED)



CONTACT US:

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About Program

The Department of Climate Change at IIT Hyderabad is floating the 2 year Masters of Technology program in Sustainable Engineering from August 2023 that will provide motivated Engineering graduates from various disciplines both technical knowhow and research experience in Sustainability focused Engineering in: Energy and Materials, Climate Mitigation, Mobility and Built Environment, Water and Waste Management. The core courses provide conceptual grounding on major sustainable engineering focus areas while the electives aid the candidates in getting in-depth exposure in a chosen area. In the second year, candidates are expected to work on and complete a research Master's Thesis in any of the research thrust areas.

About Department

The Department of Climate Change at IIT Hyderabad integrates academic and practical knowledge by bringing together a diverse array of stakeholders, including scientists, engineers, policy researchers, practitioners, and students in order to develop a holistic understanding of Climate Change and Sustainability. The Department is currently a part of the newly inaugurated IITH-GreenKo School of Climate Change and Sustainability which aims to promote research, education and awareness on the core themes of Sustainable Energy Transitions, Circular Economy, Green Chemistry and Sustainable Materials, Industrial Ecology, Sustainable Water and Food Systems and Climate Change Mitigation. Our innovative interdisciplinary curriculum provides cutting-edge education in the area of Climate Change and Sustainability Science and Technology.

Research Thrust Areas

Climate Change Mitigation; Climate Change Impact Measurement; Sustainable Energy and Materials, Circular Economy, Sustainable Mobility and Built Environment, Sustainable Water and Food Systems

Program Details

Type	Credits
Core Courses(Semester 1 & 2)	14
Electives (Semester 1 & 20	10
Thesis (Semester 3 & 4)	24
Industry Lecture	1
English Communication	1

Faculty Research Areas

- Sustainable Development
- Renewable Energy Technology
- AI & ML Applications in Climate Change
- High-Performance Computing
- Climate Adaptation
- Climate Impact
- Climate Extremes
- Urban Studies
- Climate & WRF Models
- Satellite And Radar Rainfall Estimation
- Emissions Modelling
- Scaling Up & Efficiency of Simulations
- Parallelization
- 3D & 4D Variation Assimilation
- Biofuels
- Carbon Capture and Utilization
- Design For Sustainability
- Life Cycle Analysis
- Resource Recovery from Waste
- Waste Management

Admission Procedure

Eligibility:

Candidates eligible to appear for GATE in the Subjects below can apply:
AG/AR/BT/CE/CH/CY/CS/EC/EE/ES/EY/GE/GG/IN/ME/MT/PE/PH/ST/XE can apply.
GATE score not mandatory.
Program cost will be borne by the candidates

How to Apply

Interested Candidates should fill in the application form at <https://iith.ac.in/mtechadmissions> on or before the deadline. Further details can be seen in <https://cc.iith.ac.in/admissions.html>

Results

Short-listed applicants will be communicated through emails and called for online/offline written test or interview. The final selection list will also be made available in departmental webpage and candidates should check their email regularly for updates.

