



Placement Brochure 2022-23

Department of Climate Change

About us

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. We, at IITH, aspire to be a leading institute in developing real-world solutions to the many challenges brought forth by Climate Change. Our innovative interdisciplinary curriculum involves a mix of core and elective courses, an industry lecture and seminar series by leading experts, focus group discussions, field visits, and a research thesis to provide cutting-edge education in the area of Climate Change

Why to Recruit Climate Change Students?

- The Department Climate Change Course curriculum allows students to broaden their knowledge not only in core climate but also various climate related fields, which are very much interdisciplinary.
- Students' skills being interdisciplinary allow them to build as well as enhance climate change connection with the respective domains (computational, energy and policy)
- Students can contribute to the weather- climate prediction domain which have a great role in a country's economy.
- Students have knowledge which they can apply in field of Climate Data Science and Climate Finance
- Students can work in ESG and Climate Risk Analysis conducting research and analysis on physical climate risk, working with larger datasets and conducting statistical analysis.
- Students' knowledge assists companies in meeting their corporate social responsibility norms especially in the domain of climate adaptation, environment and mitigation.
- Students' knowledge about climate policy helps in drawing policy aspects
- Students are capable of contributing to the nation's INDC target which fulfill United Nations Sustainable Development Goal 13- "Climate Action", ParisAgreement-2015
- Students can play a key role in interacting with personnel at grassroots level and in enhancing bottom- up knowledge skill transfer that is essential for practical applications. Thus, it will enhance the technology- commoner connect, e.g., technology-farmer connect in the domain of agriculture

Core Courses

- Earth's Climate and Atmospheric Sciences
- Climate Monitoring and Variability
- Climate Mitigation
- Climate Governance
- Climate Modeling

Elective Courses

- Introduction to AI and ML
- Data Modelling in Atmospheric Sciences
- Data Science Analysis
- Applied Computational Laboratory
- Advanced Computing
- Numerical Methods
- RS, GIS and Climate Change
- High-Performance Computing in Weather Research and Forecast
- Cutting Carbon from Transportation
- Waste Management and Climate Change
- Atmospheric Electricity
- Environmental Impact Assessment
- Entrepreneurship Opportunities in Climate Change
- Sustainable Energy Technology
- Climate Change and Design Innovation

Research Areas

CLIMATE

- CLIMATE ADAPTATION

- CLIMATE IMPACT

- CLIMATE EXTREMES

- URBAN STUDIES

- SUSTAINABLE
DEVELOPMENT

- ESG

COMPUTATION/MODELLING

- APPLICATIONS OF AI & ML

- SATELLITE AND RADAR RAINFALL
ESTIMATION

- EMISSIONS MODELLING

- SCALING UP & EFFICIENCY OF
SIMULATIONS

- PARALLELIZATION

- 3D & 4D VARIATION ASSIMILATION

- CLIMATE AND WRF MODELS

MITIGATION

- DESIGN FOR SUATAINABILITY

- CO2 ACTIVATION

- BIOFULES

- LIFE CYCLE ANALYSIS

- RESOURCE RECOVERY FROM
WASTE

- WASTE MANAGEMENT

- RENEWABLE ENERGY

Softwares



Thesis Topics

- ML based optimization of Combustion Kinetics of Renewable Fuels
- Sustainability assessment
- Application and life cycle analysis of biochar for water treatment
- Thermal adaptation and mitigation
- Energy consumption for low carbon mobility: Real world Data collection and Statistical Analysis

Mini Projects

- Drastic climatic conditions in Hyderabad and its impact on the residents City.
- SWOT analysis of the decentralised solar energy technology in western Himalayas.
- Study and analysis of energy storage climate mitigation technology.

PAST RECRUITERS:

TATA CONSULTANCY SERVICES(TCS)

INNOMINDS

ARABESQUE

STAART BUILDTECH

HEADDIGITAL

IQVIA



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