



DEPARTMENT OF CLIMATE CHANGE

PLACEMENT BROCHURE 2024-2025



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About Us -

The Department of Climate Change is a premier centre for education and research in India, committed to tackling the most pressing issues of our era. We offer advanced programs, including M.Tech and PhD degrees, designed to develop leaders in the field.

Our mission is to drive cutting-edge, interdisciplinary research while producing a highly skilled workforce poised to thrive in both government and industrial sectors. Our graduates are proficient in advanced modeling, data analysis, and machine learning techniques, with specialized expertise in weather, climate, and pollution.

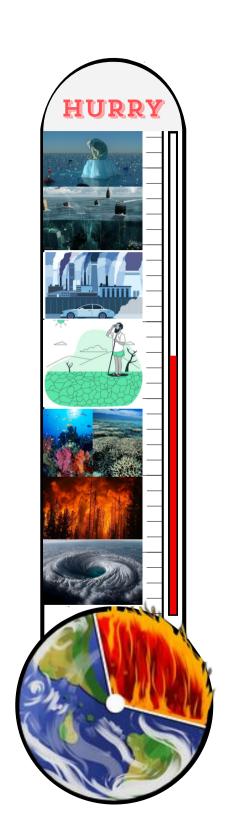




Why hire us!!

Our graduates brings an exceptional blend of advanced skills and in-depth knowledge of climate and related topics. Through a rigorous curriculum, they achieve a comprehensive understanding, ensuring a holistic grasp of critical fields like AI/ML, Remote Sensing, GIS, Life Cycle assessment, ESG and many more. They excel in interdisciplinary research through hands-on experience while working on real-world projects.

Their thesis topics align with cutting-edge research areas, bringing them to the forefront of the field. This combination of practical experience, advanced research abilities, and focus on the latest advancements makes them highly capable of contributing effectively to your organization.





Prof. Asif Qureshi



Prof. Sathya Peri



Dr. Sayak Banerjee



Prof. Kishalay Mitra



Dr. Shruti Upadhyaya



Dr. Maheswaran



Prof. Debraj Bhattacharyya



Dr. Satish Regonda



Dr. Ambika S



Dr. Niranjan S Ghaisas



Dr. Deepu J. babu



Dr. Pritha Chatterjee



Dr. Hari Priya



Dr. Shiva Ji



Prof. Suhash Ranjan DEY



Dr. Somnath Maji



Prof. Sai Santhosh Kumar Raavi



Dr. Kaushik Nayak



Dr. Aalok Khandekar



Dr. M. P. Ganesh

From the desk



Prof. Asif Qureshi **Head of Department**

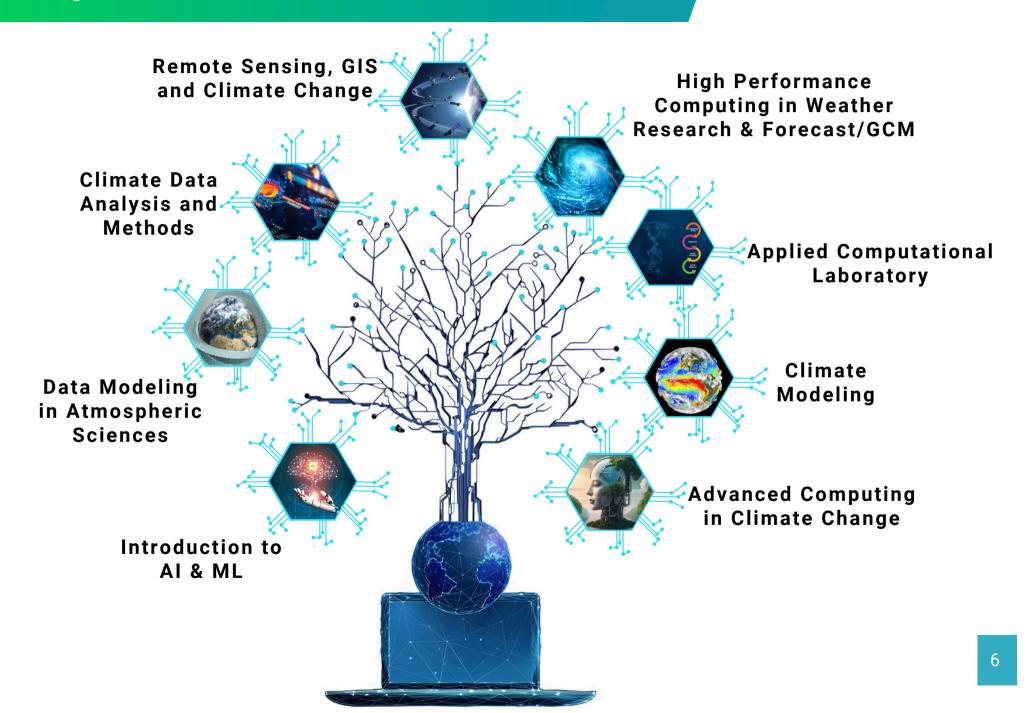
Our graduates harbor multidisciplinary portfolios that are highly beneficial when it comes to solving the environmental and climate challenges of our times. Through various courses, term projects and thesis projects, they are trained in climate sciences and climate solutions, and are capable of employing mathematical, experimental and theoretical tools to help you solve challenging situations and ensure smooth organizational operations.

Industries should be concerned about climate change for several compelling reasons to understand and mitigate its impact from various angles such as Financial and Economic Impacts, Operational Resilience, Legal and Liability Risks, and of course, the Environmental Impacts, and adapt accordingly. The Climate Change department produces skilled graduates of highly interdisciplinary in nature with knowledge and skills in mitigation strategies, and adaptation and resilience planning. These graduates bring numerous advantages for organizations and communities aiming to address and adapt to climate change impacts. We welcome Faculty Coordinator all the industries to hire these highly trained aspiring graduates.

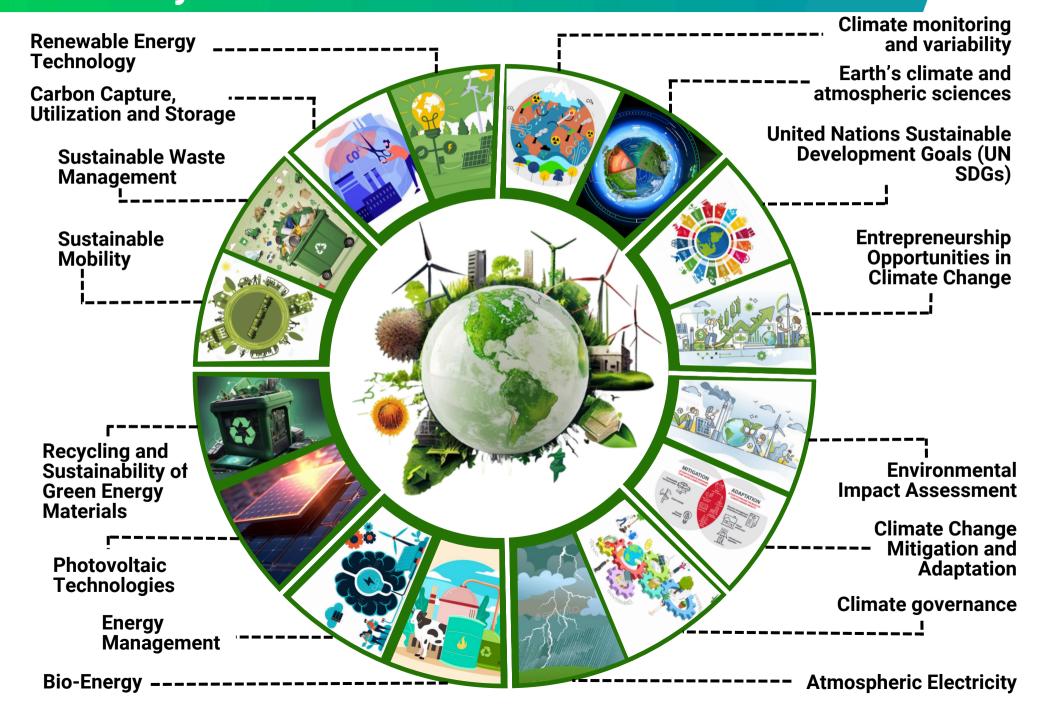


Prof. Sathya Peri

Computational courses



Energy conservation, Climate change mitigation and Policy courses



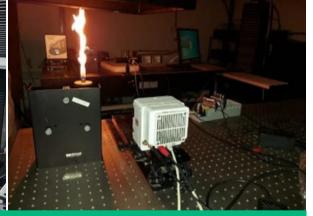
Lab Facilities





Global Optimization & Knowledge Unearthing Lab





Combustion Diagnostics Lab





Course projects

- Discharge forecasting for Ram Ganga basin using LSTM machine learning model
- Solar Power Prediction of AMS and XAI (Interpretable Machine Learning)
- Flood Susceptibility Prediction with Explainable AI: Insights from PDP Plots and Feature Importance
- Tropospheric ozone prediction using various geographical and atmospheric parameters using Random forest regressor and XAI

- ClimateNet India: Expert-level Dataset for Atmospheric River and Tropical Cyclone Classification Using U-Net Image Segmentation
- Financial Fraud Detection using Graph Clustering and Cost sensitive logistic regression
- Technical Potential Analysis of Renewable Energy Generation in Telangana Region - Solar, Wind Energy
- To Understand the impacts of LULC changes on Land Surface Temperature over Pune Metropolitan Region(PMR) using Remote Sensing

Thesis projects



Precipitation type classification with INSAT 3D/3DR Satellite Observations using Explainable AI/ML (XAI/ML)

Exploring Graph Neural Network for Wind Farm Layout Optimization





AI-ML Based Optimization and Reduction of a NH3-CH4-diesel Mechanism

Understanding the Genesis of Extreme Precipitation Events





Short-term climate forecasts, their evaluation and use of AI/ML techniques for post-processing

Environmental Impact Evaluation of Membrane-Based Sewage Treatment System: Carbon Footprint and Life Cycle Assessment



Programming Languages and Software























OpenCV



























Lecture series



Circular Economy in Plastics: Opportunities in India



Challenges in Waste Water Treatment



Comprehensive Multi-Hazard Risk Financing Strategy for India



Water modeling in the global water Industry



Macrocosmos Creations Pvt. Ltd. The Vital Role of Sensor Technology in Climate-Smart Farming



Harnessing Digital MRV and Voluntary Carbon Markets for Nature-Based Climate Solutions



Grassroots Energy Technologies India Pvt. Ltd.

Bio-hydrogen Opportunities in India: An initiative by Grassroots Energy

Past Recruiters





Energy Swaraj Foundation

Energy by Locals for Locals



Quantium Analytics























For detailed information and registration, kindly visit the Recruiters Portal of the Office of Career Services(OCS) IITH, Email: office.placement@iith.ac.in. The OCS Placement team will extend all the possible assistance to your organization to conduct the recruitment process.

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



Thank You