



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

Department of **Climate Change**  
**Placement Brochure**  
(2025-26)

IIT Hyderabad

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## Why Hire from IITH?

### Innovation & Invention

We champion original thinking and pioneering research to create impactful, real-world solutions.

### Intellectual Growth

We cultivate a culture of continuous learning, critical inquiry, and academic excellence.

### Quality Education

We provide globally relevant education that integrates knowledge, skills, and ethics.

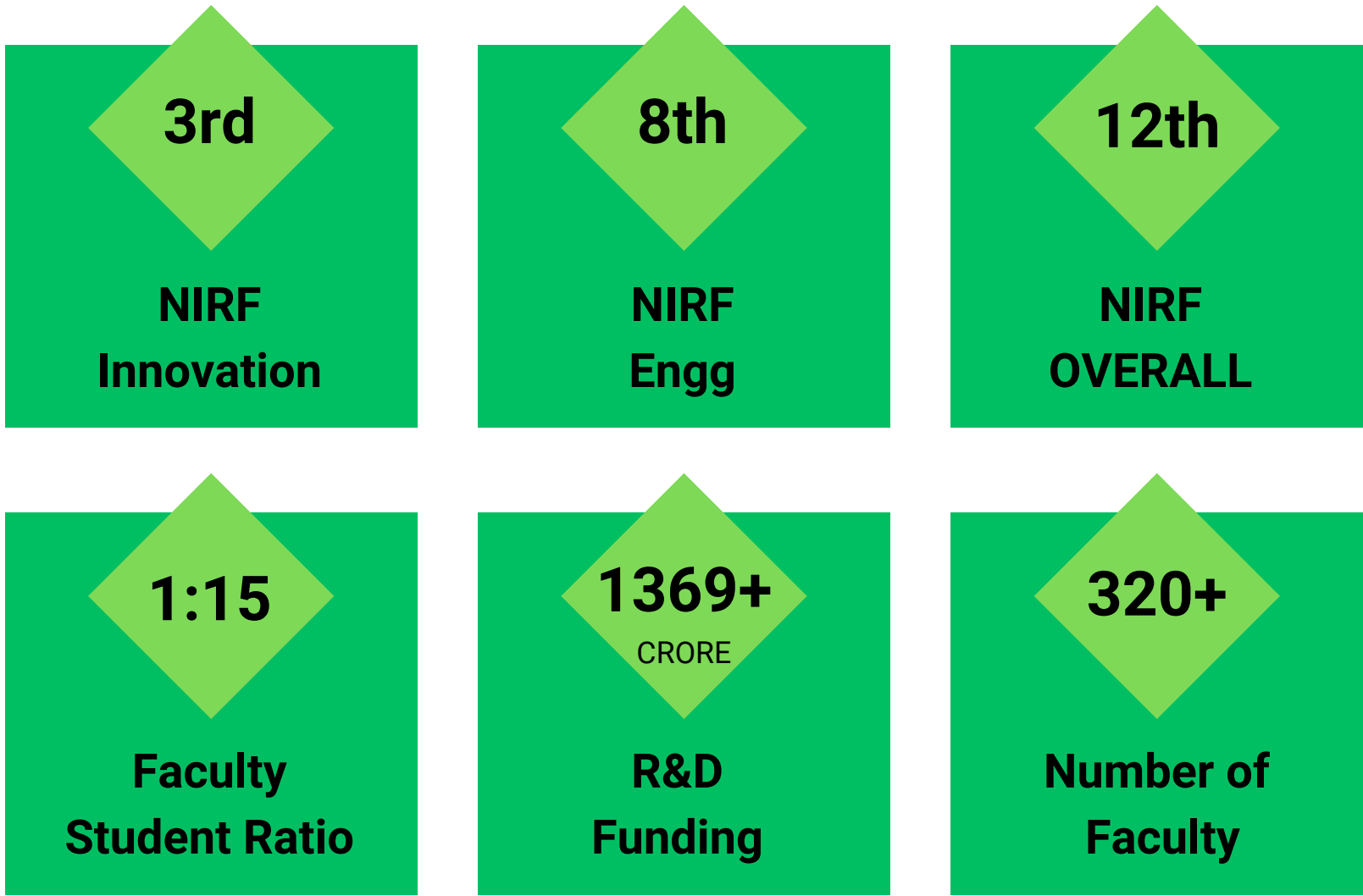
### Inspiration & Leadership

We nurture leaders who inspire change and act with purpose and integrity.

### Sustainability & Relevance

We advocate responsible practices that align with ecological balance and societal needs.

Indian Institute of Technology, Hyderabad will be the cradle for inventions and innovations. It will advance knowledge and scholarship to students in science, technology and liberal arts, and equip them to handle the challenges of the nation and the world in 21st century.



PROJECTS	PATENTS	CITATIONS	STARTUPS	LABS	PUBLICATIONS
4390+	430+	170000+	190+	200+	11400+

## Message from the HoD



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

Dr. Asif Qureshi

## Message from the Faculty Incharge



As climate change becomes a defining challenge of our time, industries are increasingly required to integrate sustainability into their core strategies, not just for environmental stewardship, but also to manage financial risk, ensure regulatory compliance, and build long-term operational resilience. Our M.Tech program in Climate Change is designed with this evolving industrial paradigm in mind. This interdisciplinary program brings together scientific, technological, and policy perspectives to train graduates who are well-versed in climate systems, data analysis, modeling, and decision-making tools relevant to a wide range of sectors. Our students are equipped to contribute effectively across domains such as clean energy, environmental management, climate and sustainability consulting, insurance and risk assessment, policy planning, and data science. The program's forward-looking curriculum aligns with national and global sustainability goals, making our graduates ideally positioned to drive meaningful change. We invite industries to engage with these aspiring professionals, ready to lead the transition toward a more sustainable and resilient future.

Dr. Anamitra Saha



# Strategic Hiring Advantage

## Interdisciplinary Expertise

Graduates are trained at the intersection of **climate science, engineering, data analytics, machine learning, sustainability, and policy**, enabling them to approach climate-related challenges with holistic and systems-level thinking

## Data-Driven and Technologically Adept



## Global Perspective with Local Relevance



Our students are trained at the intersection of climate science, technology, and policy. With strong analytical, technical, and communication skills, they are uniquely positioned to deliver value in research, consulting, sustainability, data science, and beyond.

## Research-Driven Problem Solvers



## Aligned with Sustainable Development Goals





### Climate Policy & Governance

- Climate Governance
- Human Dimensions of Climate Change
- United Nations SDGs



### Geospatial and Remote Sensing Applications

- RS, GIS and Climate Change



### Climate Science & Monitoring

- Climate Monitoring and Variability
- Climate Data Analysis and Methods
- Climate Modelling
- Climate Change Mitigation and Adaptation

### Data Science, AI/ML & Computational Climate Science

- Machine Learning for Process Systems Engineering
- Advanced Computing
- High Performance Computing in Weather Research
- Parallel Programming for HPC
- Applied Computational Lab
- Optimization Techniques
- Concurrency Control in Transactional System
- Fraud Analytics



### Economics & Innovation

- Finance for Engineers
- Entrepreneurship Opportunities in Climate Change



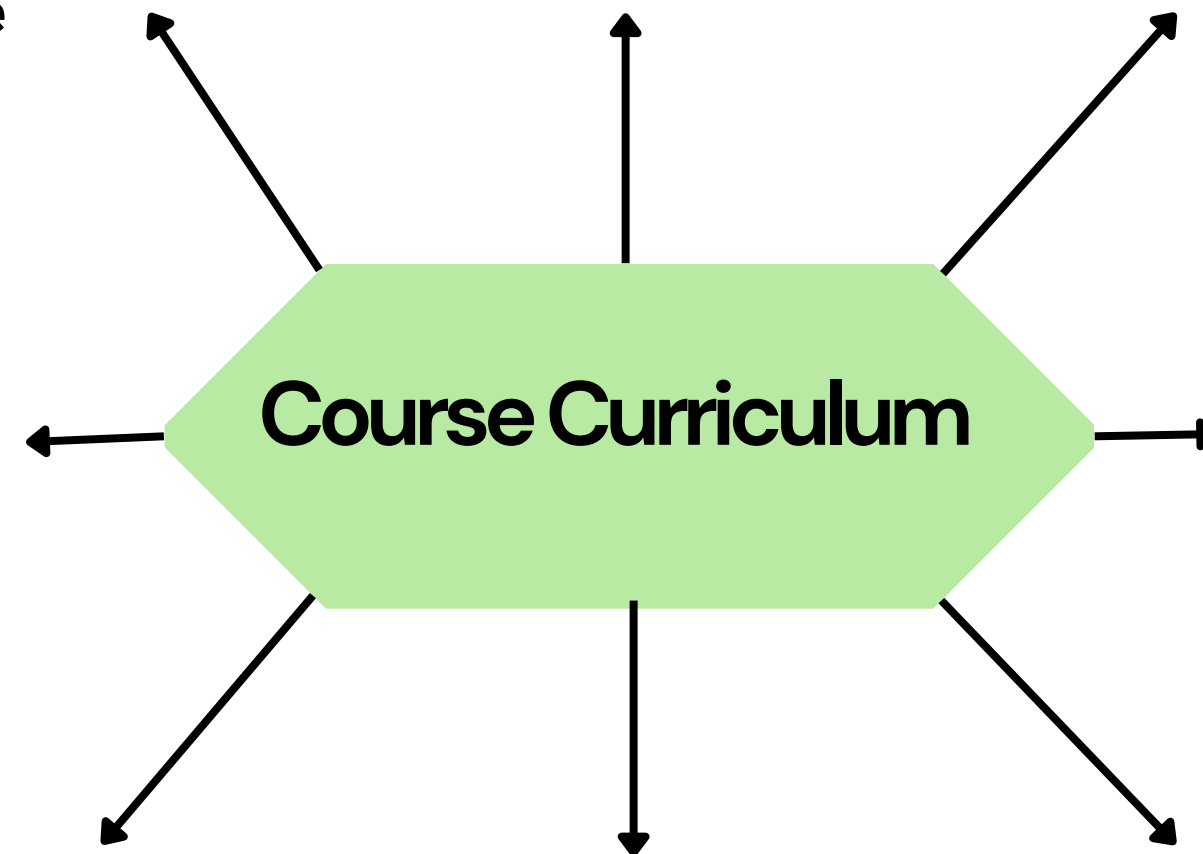
### Urban Sustainability & Resource Management

- Strategies for Sustainable Design
- Sustainable Waste Management
- Sustainable Mobility



### Research & Methodology

- Research Methodology and Scientific Writing
- Critical Reading of IPCC Reports

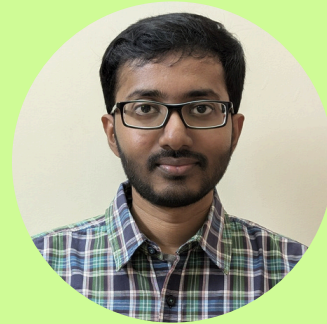


# Faculty Profile



**Dr Asif Qureshi**  
*Professor*

Research Interests: Impacts of climate change on environmental health, biogeochemical cycles, toxins in marine fishes



**Dr Anamitra Saha**  
*Assistant Professor*

Research Interests: hydrometeorology, Indian monsoon, climate risk, downscaling, and coupling physics and machine learning



**Dr Ambika S**  
*Asst. Professor*

Research Interests: Environmental chemistry, nanotechnology, LCA and impact assessment, impact on public health & ecology



**Dr Chetankumar Jaliha**  
*Asst. Professor*

Research Interests: Paleo monsoons, climate modelling, model-proxy comparisons, moist static energy budgets



**Dr Debraj Bhattacharyya**  
*Professor*

Research Interests: Effects of wastewater treatment technologies and practices on climate change, renewable energy



**Dr Deepu J. Babu**  
*Asst. Professor*

Research Interests: Carbon capture, utilization & storage, gas separation, nanoporous materials, membrane separation, adsorption



**Dr Ganesh M P**  
*Associate Professor*

Research Interests: Eco-friendly and food waste behaviours, green management practices, reuse behaviour and associated factors



**Dr Hari Priya**  
*Associate Professor*

Research Interests: Urban governance structures, qualitative approach towards understanding issues around climate



**Dr Sayak Banerjee**  
*Associate Professor*

Research Interests: Biofuels, chemical kinetics, emission kinetics, improving efficiency of engines, testing of novel biofuels



**Dr Suhash Ranjan Dey**  
*Professor*

Research Interests: Economically sustainable recovery & reuse methods, combinatorial alloy design, energy applications



# Faculty Profile



**Dr Kishalay Mitra**  
**Professor**

Research Interests: Time series modelling, hyper parameter optimization, bio-supply chain, data analysis using AI/ML



**Dr Maheswaran R**  
**Asst. Professor**

Research Interests: Hydrological modelling, integrated water management, climate extremes, impact & attribution studies



**Dr Niranjana S Ghaisas**  
**Asst. Professor**

Research Interests: Atmospheric boundary layer, turbulence simulations, wind energy, large-scale model parameterization



**Dr Pritha Chatterjee**  
**Asst. Professor**

Research Interests: Carbon balance & emission, resource recovery from waste, waste to energy, bioelectrochemistry



**Dr Aalok Khandekar**  
**Asst. Professor**

Research Interests: Environmental health governance, air pollution governance, climate resilience, cooling infrastructures



**Dr Sathya Peri**  
**Professor**

Research Interests: Scaling up & efficiency of simulations, weather modelling using parallelization, 3D & 4D Var models



**Dr Shruti Upadhyaya**  
**Asst. Professor**

Research Interests: Precipitation & associated hazards, remote sensing, hydrometeorology, explainable AI/ML (XAI/ML)



**Dr Satish Regonda**  
**Associate Professor**

Research Interests: Hydrologic processes, climate & WRF models, water resources, statistics, effective communication of research



**Dr Somnath Maji**  
**Professor**

Research Interests: Small-molecule electrocatalysis, application of hybrid materials/molecular catalysts



**Dr Shiva Ji**  
**Asst. Professor**

Research Interests: Sustainability assessment methods, lifecycle analysis, design for sustainability, impact assessment



# Student Profile



**ROHIT KUMAR SINGH**

## TECHNICAL SKILLS

SQL, Tableau, NetCDF processing and Python-visualization techniques; AI/ML, IoT based sensors; Optimization methods; Artificial Neural Networks, PowerBI; Adobe PS; Figma;

## DOMAIN OF INTEREST

Interested in data for development, sustainability, and social good; Business analyst, Product manager, Data Analyst, Consultant

## INTERSHIPS AND PROJECTS

- Business Analyst(Intern-May,2025-present)@Aadesh Charitable Foundation
- Smart Agriculture: ETo Estimation via Ensemble ML Models



**ROHIT GUNDETI**

## TECHNICAL SKILLS

Languages: C,Java, Python, C++, HTML, CSS, JS, MySQL.

Tools: Pandas, NumPy, SciPy, Scikit-learn, Matplotlib, Seaborn, OpenCV, Flask, Firebase, Git, ML,DL.Platforms: Microsoft 365, Linux

## DOMAIN OF INTEREST

Software Developer/Engineer, ML Engineer, Data Analyst/Engineer Finance, Consultant, Cloud Engineer

## INTERSHIPS AND PROJECTS

- Oasis Infobyte – Data scien Intern(2023)
- Developed ML models to predict disease spread
- Designed a hospital admission system using Java



**FATHIMA ZAHRA**

## TECHNICAL SKILLS

Python, R, MATLAB, SQL, AutoCAD, Sketchup, ArcGIS, QGIS, GEE, Microsoft Suite

## DOMAIN OF INTEREST

Climate Data Analyst, Policy Consultant, Research Associate, ESG Analyst

## INTERSHIPS AND PROJECTS

- Geospatial intern - SPA Bhopal (2022)
- Intern - BEEAH Group, UAE (2023)
- Training Programme on Aerosols - IISC Bengaluru



# Student Profile



**ABHAY SACHAN**

## TECHNICAL SKILLS

Python, Java, C++, Golang, JavaScript, R(basics). SQL (PostgreSQL, SQLite, MySQL), Matplotlib, Scikit-Learn, TensorFlow and Keras, PyTorch, DL (CNNs, RNNs, GANs), NLP (GPT models, transformers)

## DOMAIN OF INTEREST

AI/ML Engineer, Data Scientist, Data Analyst, SDE, Climate and Environmental domains, Finance

## INTERSHIPS AND PROJECTS

- Voice AI intern at chat360.
- ML engineering intern at IBM SkillsBuild.
- Summer training and internship at PWD Uttar Pradesh.
- Teaching Assistant



**SARANYA MENDA**

## TECHNICAL SKILLS

Python(NumPy, Pandas, Matplotlib), SQL, ArcGIS Pro, ArcMap, Openlayers, QGIS, ERDAS Imagine, R Studio, MatLab, GEE, Javascript, EDA, Statistical analysis, GIT

## DOMAIN OF INTEREST

Geospatial Data scientist/Climate Data scientist, Data Analyst, Project Management ESG Policy Data Consultant.

## INTERSHIPS AND PROJECTS

- Garudalytics – Geospatial Intern
- Cognizant-GIS Intern – Excelled in Project Management, Built web application using Openlayers.
- IISC Bangalore– Training programme on aerosols
- Teaching assistant – NPTEL Course



**NAVEEN BAIPILLI**

## TECHNICAL SKILLS

Data Analysis: Python, R, statistics, EDA, spatial analysis. GIS & Remote Sensing . Web Development: HTML, CSS, JavaScript, Flask. Tools: SQL, Git, LaTeX

## DOMAIN OF INTEREST

Climate data scientist, Geospatial data scientist, AI/ML engineer, sustainability

## INTERSHIPS AND PROJECTS

- Garudalytics – Geospatial Intern
- L&T Mindtree – Geospatial Engineer (Sep 2023 – Jun 2024)
- Sea-Level Rise & Coastal Vulnerability – GIS-based assessment of coastal risks



# Student Profile



**MAHESH SHELAR**

## TECHNICAL SKILLS

Excel, word , C++, python

## DOMAIN OF INTEREST

AI/ML Engineer, Data Scientist, Data Analyst, SDE, Climate and Environmental domains, Finance

## INTERNSHIPS AND PROJECTS

- TA-IITH-Assisted with lab sessions, evaluations, and academic support in climatology and AI/ML courses.
- Work as trainee in KSM 14 production department in zyduz takeda pvt ltd .

# Tools and Software

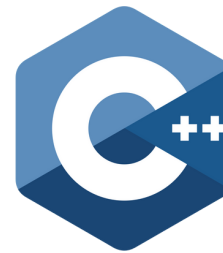


PyTorch



SciPy

Pandas



Google Earth Engine



Microsoft 365



JavaScript



Power BI



ArcGIS

tableau



HTML



TensorFlow



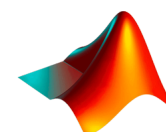
Keras



git

matplotlib

QGIS



MATLAB®



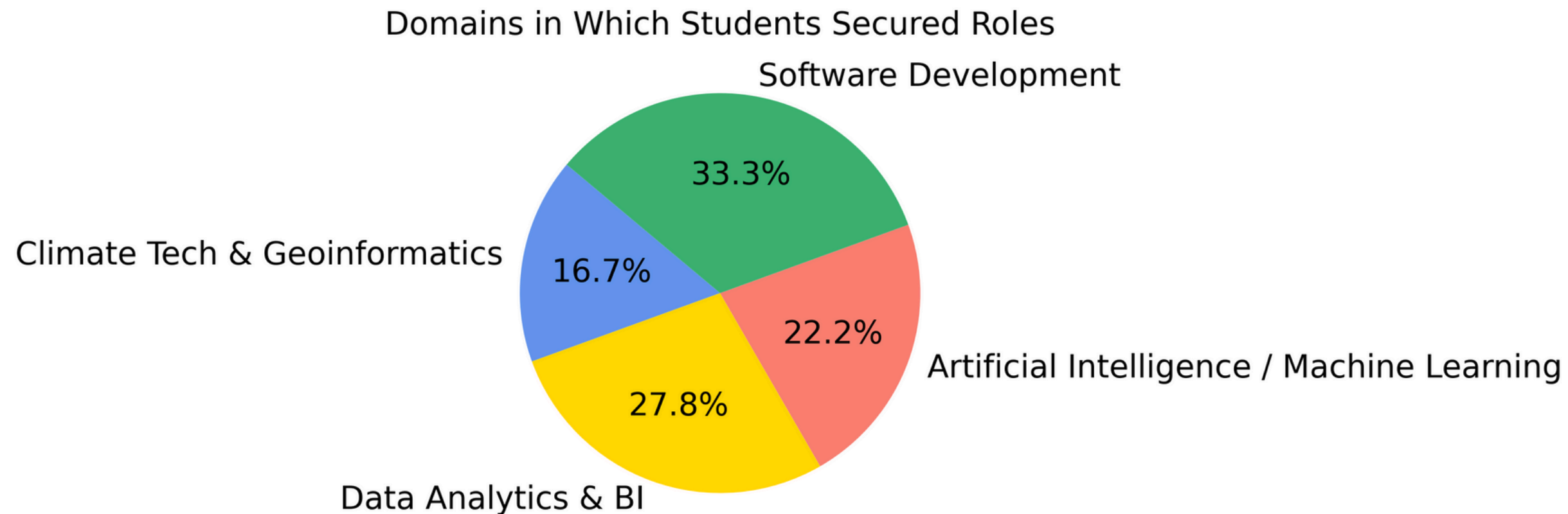
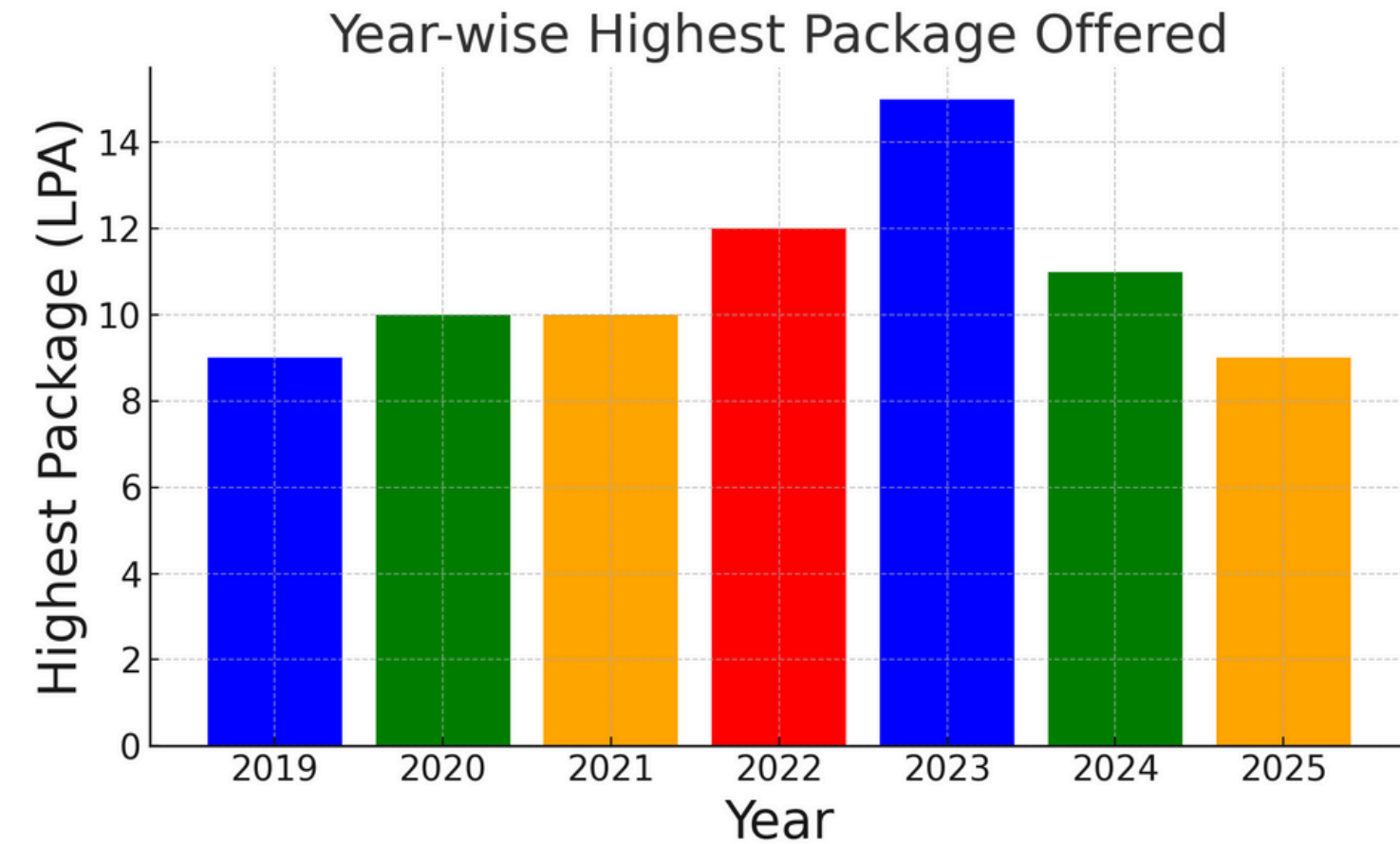
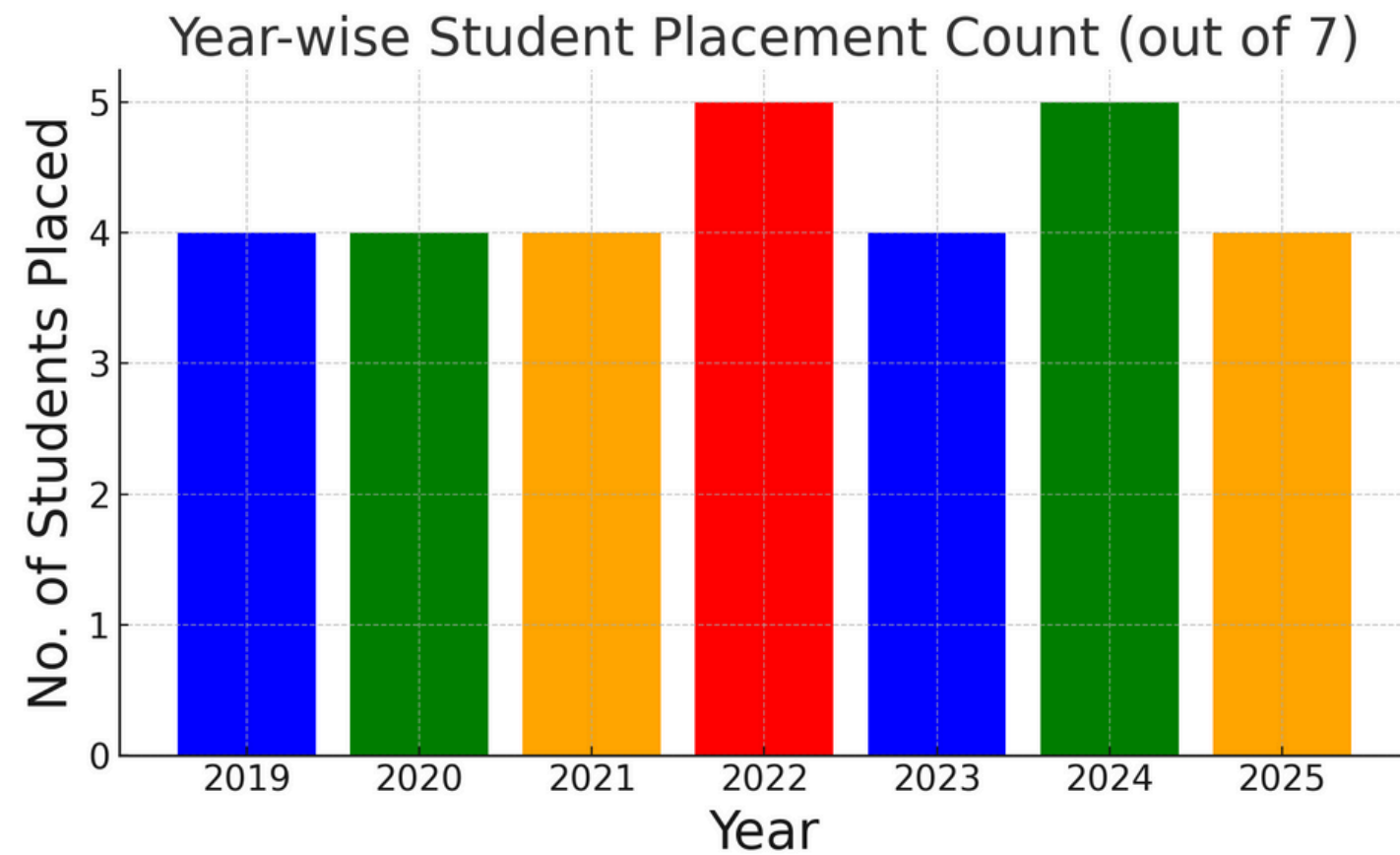
seaborn



NumPy



# Placement Highlights

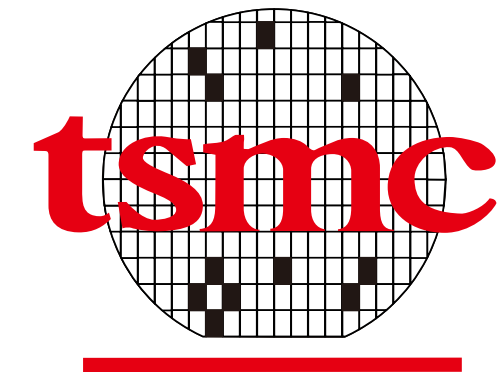


NOTE: Rest opted out of placement

# Recruitment Partners



J.P.Morgan



Mercedes-Benz



Energy Swaraj Foundation  
Energy by Locals for Locals





## Industry Lectures held:

- From Waste to Wonder - Mr. Indrajit Shaw, CBRE
- Climate and Water - Scope in the Insurance Industry - Dr. Kedar Otta, Moody's RMS
- Geospatial Data for SDGs - Dr. Ram Avtar
- Fine-grained modelling of informal housing - Mr. Swastik Harish, Anagram Architects
- Marine Cloud Brightening - Dr. Prasanth Prabhakaran
- Towards Nature-Positive Engineering for a Resilient Future - Dr. Nidhi Nagabhatla
- Bio-hydrogen Opportunities in India - Dr. Shayamali, Grassroots Energy Technologies Pvt. Ltd.
- Challenges in Waste Water Treatment - Mr. Venkata Puranam, INDWA Technologies Pvt Ltd.
- Harnessing Digital MRV and Voluntary Carbon Markets for Nature-based Climate Solutions - Mr. Srikanth Vavila, GAIT Global
- Comprehensive Multi-Hazard Risk Financing for India - Mr. Raju Datla & Mr. Srinivas Kondapalli, Verisk

# Industry Collaboration

Our strong partnerships with government bodies, international research institutes, and private sector organizations ensure our students gain valuable applied experience during their studies.



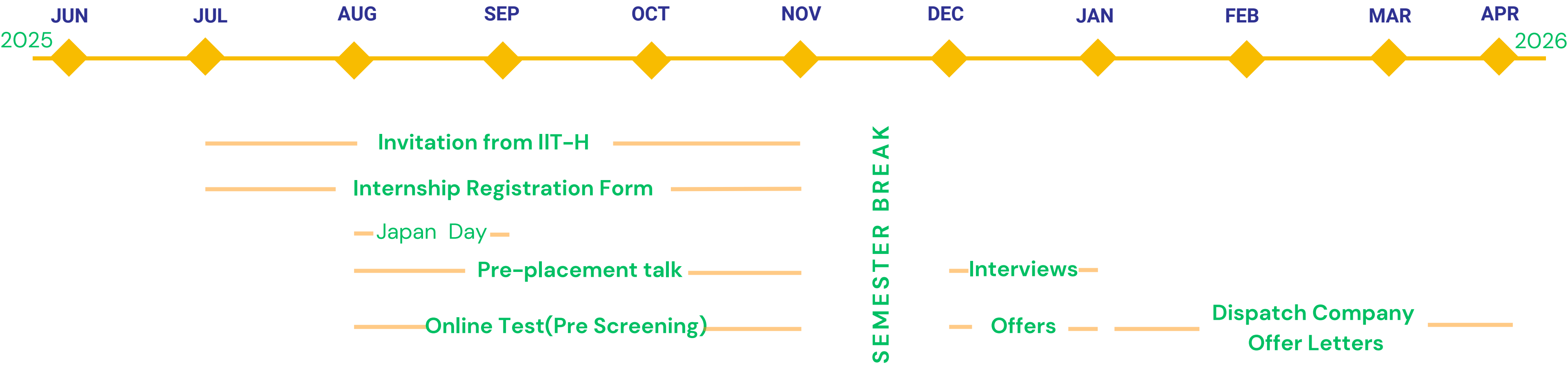
Visit to IMD & INCOIS

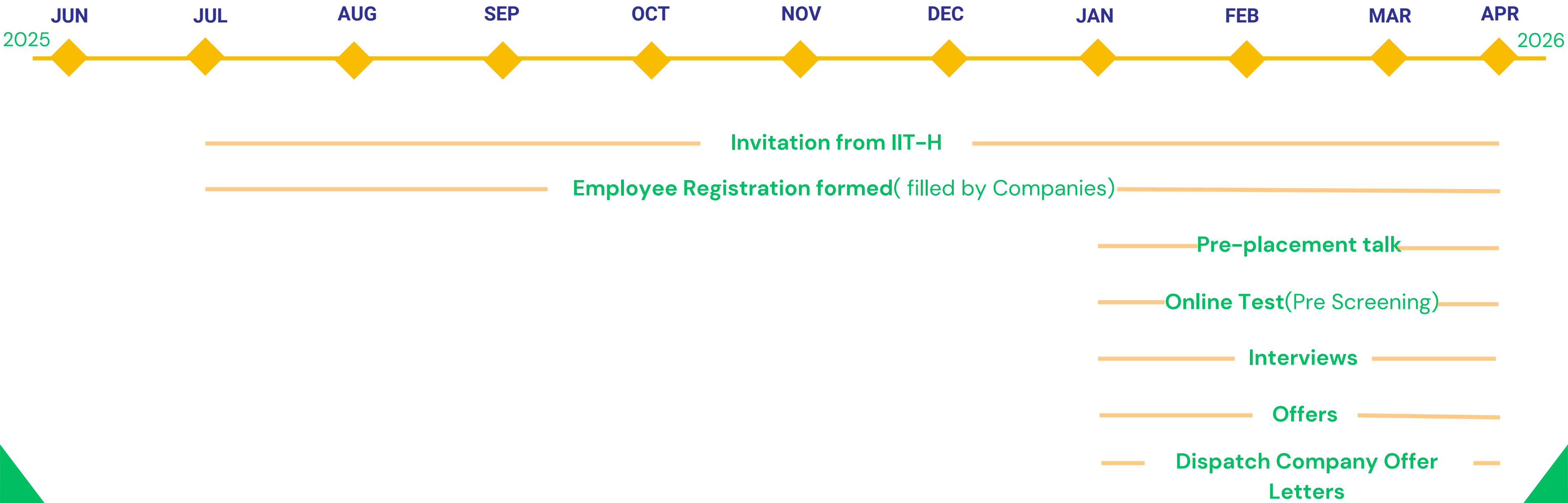


Talk & Interaction with Dr. R Krishnan (Former IITM Director)



Department Day held with Industry Expert Talks & Panel Discussions







## OFFICE OF CAREER SERVICES (OCS)

The Office of Career Services at IIT Hyderabad aims at building harmonious relationships among industry giants and future technocrats. OCS actively approaches finance, technical, consulting, analytics, and core companies to increase student career choices, leverages the alumni network, and conducts informative sessions to bridge the gap between academia and corporate life. With persistent efforts, refined recruitment is ensured at every stage of the placement process so that well trained students can work with the best firms. We welcome you to connect with our Placement Cell to explore recruitment, internship, or collaboration opportunities.

### ADDRESS:

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Mrs. K Malini: +91 83310 36118  
Mr. Vetrivel M: +91 96006 07669  
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Website: <https://ocs.iith.ac.in/>  
Google Maps: <https://bit.ly/2OKCR4j>

### FACULTY PLACEMENT COORDINATOR

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Assistant Professor  
Department of Climate Change, IIT Hyderabad  
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Phone No. : +91 9820485438

### PLACEMENT COORDINATOR

Mr. ROHIT KUMAR SINGH  
Contact no: +91 8860346371  
Email: [cc24mtech11001@iith.ac.in](mailto:cc24mtech11001@iith.ac.in)

### OCS HEAD

Mr. Edward Nathan Varghese : +91 96864 32060

### PLACEMENT MANAGERS

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Indian Institute of Technology Hyderabad

# Thank You

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