



భారతీయ ఇంజనీరింగ్ టెక్నాలజీ సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

CCE NEWSLETTER

MAR-MAY 2026



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Preface



IIT Hyderabad witnessed a vibrant phase of academic and research activity during March to May 2026, marked by the successful organization of several significant events, including the Symposium on AIDL-2026, NHCX Hackathon under the Ayushman Bharat Digital Mission (ABDM), BODH workshop, Data Driven Statistical Decision Making Conference, ANRF PAIR workshops on Energy and Artificial Intelligence, the Peer-to-Peer Exchange Workshop on River Basin Management, the ANRF–IITH–ACS TAPAS Workshop 2026, and the C15: Carbon Future Summit. In addition, initiatives such as the Driving Organisational Effectiveness workshop, TEDx main event, Greenko School of Sustainability programme, and Bact-O-Connect further enriched the campus ecosystem.

These events spanned diverse and emerging domains such as artificial intelligence, healthcare technologies, sustainability and energy, statistical sciences, assistive technologies, and digital innovation. Organized in collaboration with leading academic institutions, government bodies, and industry partners, they brought together distinguished scientists, policymakers, industry experts, researchers, and students from across the country.

Through keynote lectures, technical sessions, hackathons, workshops, and panel discussions, the events facilitated dynamic knowledge exchange, interdisciplinary collaboration, and hands-on innovation. Participants actively engaged in discussions on real-world challenges, contributing to advancements in research and practical applications.

Collectively, these initiatives strengthened research dissemination, enhanced industry–academia partnerships, promoted innovation and problem-solving, and supported capacity building across multiple sectors. This period highlights

Events at CCE

Workshops/Symposiums/Conferences

- Symposium on AIDL-2026 was held from 6th to 7th March 2026, bringing together experts and practitioners to discuss emerging trends in assistive technologies and inclusive digital library design organized by Knowledge Resource Centre/Library, IIT Hyderabad.
- NHCX Hackathon was held from 6th to 7th March 2026, organised under the Ayushman Bharat Digital Mission (ABDM) to promote innovation around the National Health Claims Exchange (NHCX) and in collaboration with ecosystem partners, including Insurance Regulatory and Development Authority of India (IRDAI), IIT Hyderabad, National Resource Centre for EHR Standards (NRCeS), General Insurance Council (GIC), Google, Insurance Information Bureau (IIB), National Accreditation Board for Hospitals and Healthcare Providers (NABH), India Insurtech Association (IIA) and NATHealth.
- Building Opportunities & Driving Hope (BODH) workshop was held on 15th March 2026 at IIT Hyderabad, organized by ANRF-PAIR partnerships in research in Advanced Technologies in Healthcare, AI, Materials & Energy (PRATHAME).
- Data driven Statistical Decision Making conference aimed to advance methodological innovation, strengthen and promote the integration of statistical science in addressing national and global challenges was held on 27th to 28th March 2026, IIT Hyderabad.
- The first cohort of the Driving Organisational Effectiveness through Employee Experience workshop at DSSI Studios, Department of Design, IIT Hyderabad organised by Dr. Srikar AVR, along with collaborator Parthajeet Sarma, Chevening Scholar, University of Oxford, was successfully completed on 28th March 2026.
- ANRF PAIR - Energy Workshop was held from 6th to 8th April 2026 at IIT Hyderabad., bringing together researchers, academicians, and students to engage in meaningful discussions on emerging challenges and innovations in the energy sector.
- ANRF PAIR - AI Workshop was held from 9th to 11th April 2026 at IIT Hyderabad, and was organized as a thematic workshop focused on Artificial Intelligence (AI) to strengthen research collaboration and capacity building among the hub and spoke institutions.

- C15: The Carbon Future Summit was held from 11th to 12th April 2026 at IIT Hyderabad, focused on the theme: Carbon Research Yielding Sustainable Technological Advances for Life (CRYSTAL).
- Was part of the “Praja Palana – Pragathi Plan” and “ARRIVE ALIVE” awareness program organized by the Transport Department at IIT Hyderabad on 14th April 2026, along with State Minister Ponnam Prabhakar Garu and other public representatives.
- TEDx main event was held on 19th April 2026 at IIT Hyderabad, about the spark that transforms inspiration into action. It is the courage behind bold ideas, the imagination that fuels innovation, and the energy that drives real impact.
- The Greenko School of Sustainability represented a collaborative vision between IIT Hyderabad and the Greenko Group, aimed at nurturing professionals equipped to address the pressing challenges of climate change, clean energy transition, and sustainable development was held on 25th April 2026.
- Bact-O-Connect was held on 27th April 2026, organized by Prof. Mudrika Khandelwal, Department of Materials Science and Metallurgical Engineering, IIT Hyderabad.
- The Peer-to-Peer Exchange Workshop on River Basin Management was held on 15th May 2026, at IIT Hyderabad. The works focused on Advancing India-EU Strategic Cooperation on River Basin Management (RBM).
- The ANRF–IITH–ACS TAPAS Workshop 2026 was held from 22nd to 24th May 2026, jointly organized by IIT Hyderabad and the American Chemical Society (ACS) under the ANRF PAIR Program, the event was themed "Transforming Academia through Practice, Application, and Skill-building.

UPCOMING OAT COURSES FROM JULY - NOVEMBER 2026

- Machine Learning for Physical Sciences by Dr. Sangkha Borah
- Visual Analytics by Dr. Puram Praveen
- Machine Learning in Bioinformatics by Dr. Abhishek Subramanian
- Entrepreneurial Marketing by Dr. Rajesh Ittamalla
- Control Systems Design by Prof. Ashok Kumar Pandey

NPTEL COURSES IN JAN-MAY '26

Transmission Electron Microscopy: Theory of Imaging to Advanced Applications

Transmission Electron Microscopy (TEM) has been used extensively to obtain structural, compositional, and morphological information from various kinds of solid samples ranging from materials science, microelectronics, chemistry, microbiology as well as geology at a high resolution.

Memory Device Technology for AI/ML Computing

A paradigm shift from logic-oriented, deterministic computing to data-driven, heuristic computing has ushered in the era of AI/ML. This change has been catalyzed by advances in memory and storage technology which has made 'big data' accessible for computing.

Introduction to Cardiovascular Mechanics

Cardiovascular diseases (CVDs) are the leading cause of mortality in the world and in India as of the year 2019. The onset and progress of many CVDs are affected by mechanical factors. The design of devices used in their treatment requires a knowledge of mechanics.

Migration, Mobility and Development

It aims to engage with contemporary scholarship in migration studies. It will do so by critically studying key concepts and theories of migration, and interrogating the relationship between migration and development. Drawing on multidisciplinary theoretical and empirical literature in the social sciences

Theory of Plasticity for Engineers: Concepts and Applications

It provides a comprehensive understanding of plasticity, damage mechanics, and high strain rate behavior, focusing on the fundamentals, applications, and computational aspects of plasticity and its interaction with damage in materials.

Polymeric Biomaterials: Structure, Properties, Function and Performance

Polymers play a transformative role in modern healthcare, driving innovations in drug delivery, regenerative medicine, diagnostics and medical implants. Despite their remarkable diversity and versatility, the use of polymers across most applications is guided by a common structure-property-function framework.

Basics of Climate Modeling

Climate change is a very important and current topic. While almost all students are aware of the phenomenon, in general, it will be highly beneficial for them to be aware of the basic concepts behind climate change such as thermodynamic principles, energy balances, and what goes behind some of the modeling.

IC Design for Wireless Systems

It focuses on CMOS IC level implementation of RF, analog and mixed signal processing blocks used in a wireless system. Students will be able to develop intuition and mental models for designing transistor level high frequency circuits on an IC. Recent circuit techniques like N-path, noise-cancellation, digital power-amplifier etc. will be introduced during the course.

Predictive Modelling with Applications: Supervised and Unsupervised Learning

The core concepts of predictive modelling and its applications to data analysis. It will cover both supervised and unsupervised learning. In addition to the modelling techniques, the course will include model evaluation and model diagnostics as well. The course pedagogy will involve concepts, methods and applications using real-life examples and illustrations using R.

UPCOMING NPTEL COURSES IN JUL- NOV '26

Design of Steel-Concrete Composite Structures

It combines the best attributes of both structural steel and reinforced concrete, offering benefits such as rapid construction, efficient design, and reduced cross-sectional dimensions for structural members.

Modeling and Control of Grid Connected Power Converters

Power electronic converters are crucial in integrating Renewable Energy Systems into the Power Grid. This course focuses on modeling, analysis, and control of power electronic converters that are used for interfacing renewable energy sources to the grid.

Behavior and Design of Cold formed steel structures

It provides a comprehensive introduction to the fundamental principles of cold-formed steel, covering its characteristics, manufacturing process, and advantages in construction. The design methodology presented in the course aligns with the latest AISI S100:2024 specifications. It explains the mechanical properties and structural behavior of cold-formed steel under various loading conditions, highlighting its distinct behavior compared to conventional materials.

Matrix Theory and Applications

It contains the concepts related to matrix theory, related concepts and their applications in various disciplines. It covers a depth understanding of matrix computations involving rank, eigenvalues, eigenvectors, similarity transformations, (diagonalisation, Jordan canonical etc). It also includes applications of matrix theory in optimization, differential equations, numerics, image processing and data analytics.

Wavelets and Applications

The course aims at discussing orthogonal/nonorthogonal wavelet bases constructed for the space of square integrable functions. It then discusses the algorithmic as well as the application of discrete wavelets.

Computational Methods in Materials Science and Engineering

It provides a comprehensive introduction to numerical techniques essential for solving complex problems in materials design.

Foundations of Machine Learning

It introduce some of the basic concepts of machine learning from a mathematically well motivated perspective. We will cover the different learning paradigms and some of the more popular algorithms and architectures used in each of these paradigms.

Literature, Religion, and the Secular: Cultural Perspectives for English Literary Studies through a reading of Postsecular Theory

In this course we will conduct a study of the relationship between religion and literature from the perspective of Postsecular Studies, with close attention to the religious context from within which key works of British literature were produced.

Upcoming Events JULY - AUG 2026

- RAAM 2026 (4th International Conference on Recent Advances in Applied Mathematics) will be held from 6th to 8th July 2026 at IIT Hyderabad.
- Cultures of waste will be held from 10th to 12th July 2026 at IIT Hyderabad.
- Certified FRP Strengthening Designer Training Programme will be held from 6th to 7th July 2026 at IIT Hyderabad.
- Certified CFRP Strengthening Designer Training Programme will be held from 8th to 10th July 2026 at IIT Hyderabad.
- VLSI chip design certificate Bootcamp will be held from 6th to 10th July 2026 at IIT Hyderabad.
- Autonomous Robotics Summer Immersion and Simulation Grand Prix 2026 will be held from 20th July to 2nd August 2026 at IIT Hyderabad.
- The 6th Mobile Studies Congress symposium will be held from 21st to 23rd August 2026 at IIT Hyderabad.
- Driving Organizational Effectiveness Through Employee Experience will be held from 8th to 9th August 2026 at IIT Hyderabad.
- The YOLO (You Only Live Once) Summit is a highly engaging career development and student empowerment event hosted by The Premia Academy at IIT Hyderabad in August.



Gallery of Events



Symposium on AIDL



NHCX Hackathon



ANRF PAIR - Energy Workshop



Driving Organisational Effectiveness through Employee Experience



ANRF PAIR - AI Workshop



Building Opportunities & Driving Hope workshop



GSS Event



Arrive - Alive



Peer-to-Peer Exchange Workshop



TAPAS Workshop