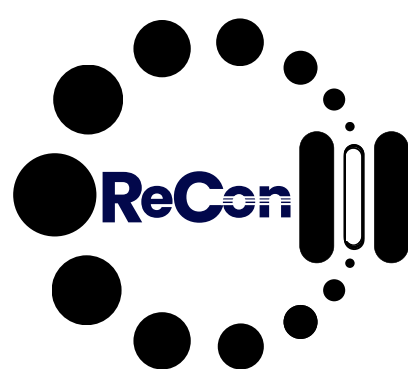


**2025**

**INNOVATE, INCLUDE, INSPIRE  
FOR A SUSTAINABLE FUTURE**



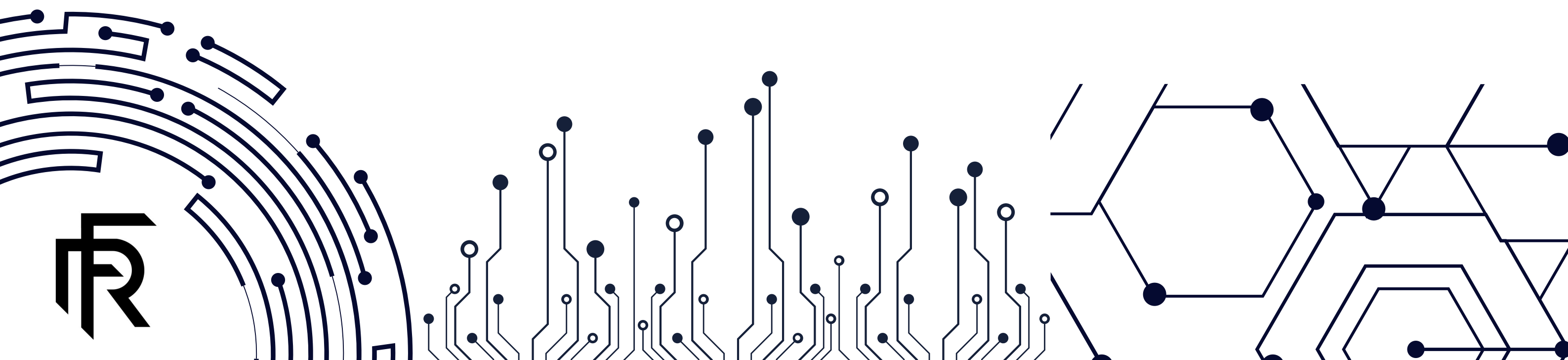
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[research.conclave@nitc.ac.in](mailto:research.conclave@nitc.ac.in)

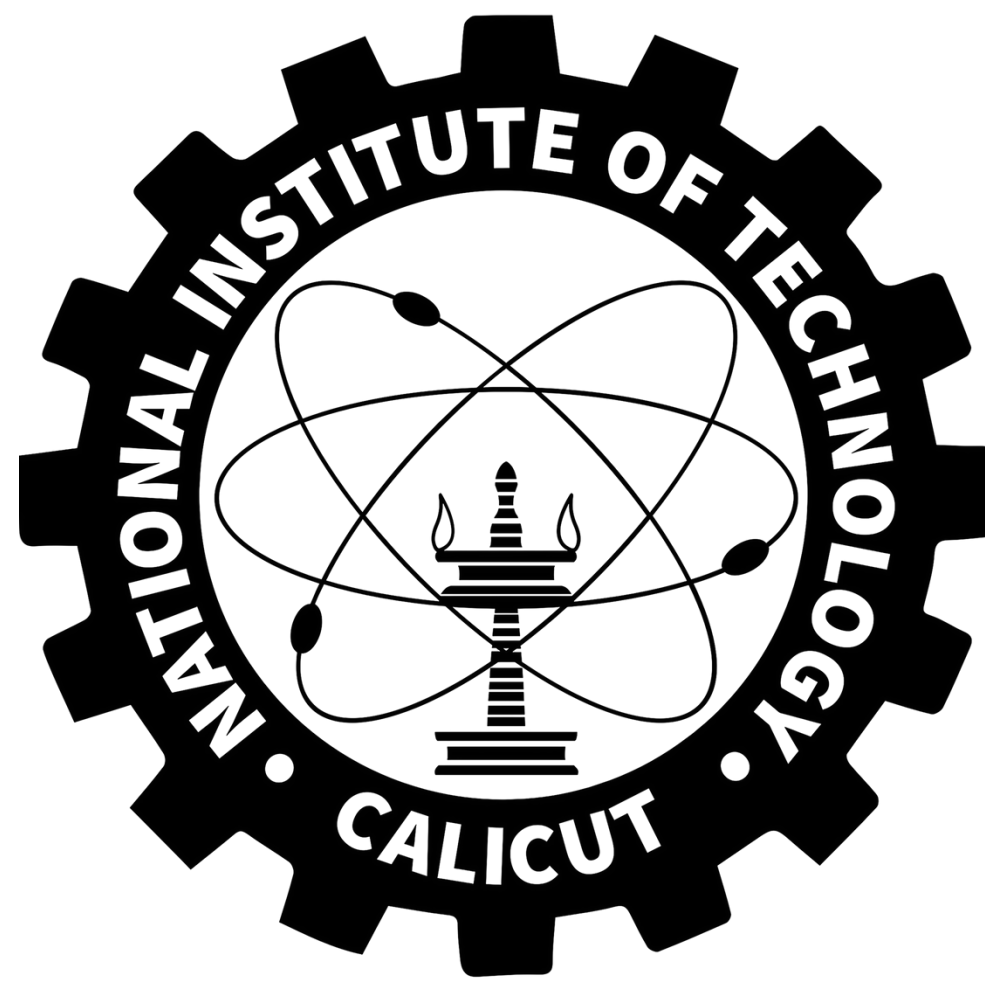
**September 25–27, 2025**

**Our Website**

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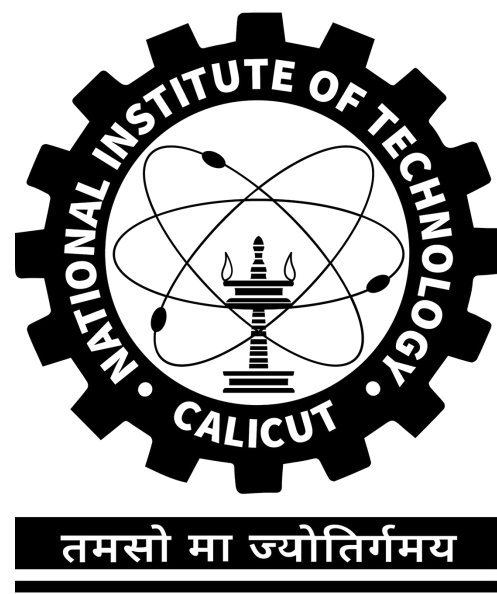
## ABOUT NIT CALICUT

The National Institute of Technology Calicut (NITC) is a prestigious technical institution located in Calicut, Kerala, India. Established in 1961 as the Calicut Regional Engineering College, it was designated as an Institute of National Importance in 2002 and subsequently renamed as the National Institute of Technology Calicut. The institute, situated at the foothills of the Western Ghats, offers a picturesque setting just 22 km away from Kozhikode city. NITC is widely recognized for its academic excellence in engineering, technology, and sciences at undergraduate, postgraduate and research levels.

## ABOUT THE CONCLAVE

The Research Forum at NITC has been a pioneer in organizing research conclaves in India, fostering academic exchange and innovation. The inaugural edition, Research Consellate (ReCon), was successfully conducted in 2023, followed by the second edition, Research Conclave on Global Transformation (ReConGT). Building on the success of previous editions, the third edition, Research Conclave 2025: Innovate, Include, and Inspire (ReCon iii), aims to foster interdisciplinary collaboration, drive innovation, and promote inclusivity in research, further strengthening NITC's position as a hub for cutting-edge academic discourse. With a strong emphasis on innovation, inclusion, and inspiration, ReCon iii will explore innovative advancements, challenge conventional paradigms, and generate impactful solutions to contemporary global challenges. From pioneering technological breakthroughs to progressive policy frameworks, the conclave will serve as a catalyst for shaping a more equitable, sustainable, and resilient future.





# NOTABLE SPEAKERS



**Dr. Maruthi R. Akella**  
Professor, Cockrell Family  
Chair in Engineering  
The University of Texas,  
Austin

**Dr. Maruthi R. Akella, Cockrell Family Chair in Engineering at the University of Texas at Austin, is a leading expert in Controls, Autonomy, and Robotics. His research in nonlinear adaptive control and orbital mechanics advances autonomous space vehicles, cislunar astrodynamics, and robotics, including work on the Intuitive Machines IM-1 lunar landing. He leads the C-DUS Group and has authored over 260 publications. Honors include the AIAA Mechanics and Control of Flight Award and the IEEE Judith A. Resnik Space Award. An asteroid, "Maruthiakella," is named after him. He is a Fellow of AIAA, IEEE, and AAS, and journal Editor-in-Chief.**


**Prof. Obijiofor Aginam, Director of UNESCO MGIEP, is a renowned scholar and international policy expert committed to peace and sustainability through education. With a background in law and global health governance, he played a pivotal role in revising WHO's International Health Regulations. At MGIEP, he promotes innovative learning, especially in the Global South, to equip youth with critical skills for global citizenship and sustainable development. His leadership integrates peace, sustainability, and global citizenship into education, advancing MGIEP's mission to "Build Kinder Brains" and achieve SDG 4.7. He brings deep expertise from senior roles across the United Nations system.**



**Prof. Obijiofor Aginam**  
Director, UNESCO MGIEP

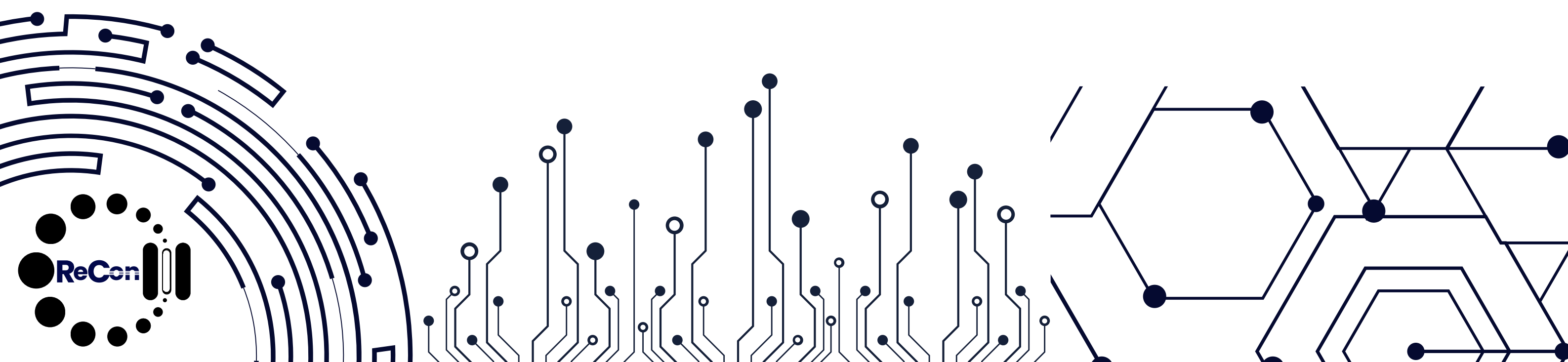






# THEMES

- ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN ENGINEERING AND ENVIRONMENTAL APPLICATIONS
- SUSTAINABLE ENERGY AND RELIABLE POWER
- MOLECULAR INSIGHTS FROM BIOLOGICAL SYSTEMS
- AI IN HUMANITIES AND MANAGEMENT
- ADVANCED MATERIALS, MANUFACTURING AND BUILT ENVIRONMENTS
- INNOVATIONS IN SIGNAL PROCESSING, VLSI DESIGN AND HARDWARE TECHNOLOGIES
- SOCIAL WELL-BEING, INCLUSIVITY AND MANAGEMENT
- ADVANCES IN MATHEMATICAL THEORY AND COMPUTATIONAL METHODS
- INNOVATIONS IN ASTROPHYSICS AND QUANTUM TECHNOLOGIES







# CONCLAVE HIGHLIGHTS

**DOCTORAL COLLOQUIUM**

**PAPER PRESENTATION**

**POSTER PRESENTATION**

**PLENARY SESSIONS**

**EXPERT LECTURE SERIES**

**CULTURAL NIGHT**

All accepted papers will be published either in Conference Proceedings (SCOPUS- Indexed book volumes) or will be recommended to special issues in reputed journals for publication (IEEE, Elsevier, Wiley, Taylor and Francis, Sage or Springer)





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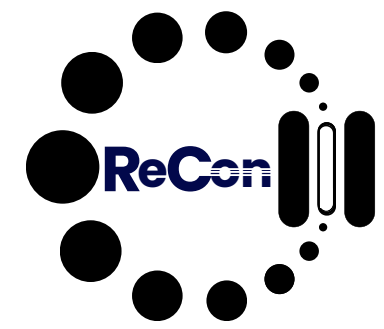
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