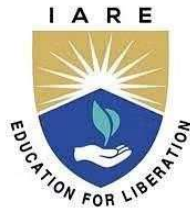


INSTITUTE OF AERONAUTICAL ENGINEERING

(AUTONOMOUS)

Dundigal - 500 043, Hyderabad



CONSORTIUM – 2025

A National Level Students' Technical Fest

(31 October – 01 November, 2025)

Consortium 2025 stands as a national-level technical fest that brings together aspiring innovators, researchers, and students from across disciplines to share ideas, explore emerging technologies, and celebrate the spirit of innovation. Organized by the Institute of Aeronautical Engineering, this two-day event (30–31 October 2025) provides a vibrant platform for technical exchange through seminars, discussions, and collaborations across diverse domains such as Artificial Intelligence, Quantum Computing, Cyber Security, Green Technologies, and more. With a vision to inspire curiosity and foster interdisciplinary learning, Consortium 2025 aims to empower young minds to shape solutions for the challenges of tomorrow.

Department of Computer Science and Engineering

Faculty Co-Ordinators:

- Mr. Roopesh Kumar Thota - (+91) 9930863070
- Mr. Y Veeranjanyulu - (+91) 7799167248
- Mr. A Shiva Raj - (+91) 9885772012

S. No.	Seminar Topics
1.	Quantum Programming Frameworks and Quantum-Safe Cryptography
2.	Green Computing and Sustainable Data Center Architectures
3.	Edge Intelligence: AI at the Edge for IoT and Smart Devices
4.	Scalable Machine Learning on High Performance Computing Architectures
5.	Federated Learning and Privacy-Preserving AI in Cloud Environments

Department of Artificial Intelligence and Machine Learning

Faculty Co-Ordinators:

→ M. Seshanna - (+91) 9908032952

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S. No.	Paper Presentation
1.	AI in Genomics for predicting Genetic Disorders
2.	AI Driven Personalized Treatment Planning
3.	Bias and Fairness in Healthcare AI
4.	Robotics and AI in Surgery and Rehabilitation
5.	Artificial Intelligence and Machine Learning in Civil Engineering

Department of Data Science

Faculty Co-Ordinators:

→ Y Mallikarjun, Asst. Prof - (+91) 9866425222

→ N. Lakshmi Deepthi, Asst. Prof - (+91) 9246242444

S. No.	Seminar Topics
1.	Multimodal fusion for anomaly detection and target recognition on Border surveillance and autonomous patrolling robots.
2.	Quantum Machine Learning for Early Detection of Alzheimer's Disease Using Multi-Modal Brain Imaging Data
3.	Self-Adaptive Quantum AI Framework for Cloud-Based Anomaly Detection
4.	Autonomous Traffic Management Using Agentic AI and Real-Time Sensor Data

Department of Cyber Security

Faculty Co-Ordinators:

→ K. Naveena, Asst. Prof- (+91) 8019981821

→ N. Sreevani, Asst. Prof- (+91) 7670912142

S. No	Seminar Topic
1.	Beyond Firewalls: Evolving Strategies for a Safer Cyberspace
2.	Blockchain Security and Smart Contract Vulnerabilities
3.	Mobile Device Forensics: Extracting Evidence from Smartphones and Tablets
4.	Privacy-Preserving Machine Learning
5.	DevSecOps: Integrating Security into Agile CI/CD Pipelines

Department of Information Technology

Faculty Co-Ordinators:

→ Ms. B Pravallika - (+91) 8187898792 7

→ Ms. A Rajitha - (+91) 8143961114

S. No	Seminar Topic
1.	Quantum Programming Tools and Cloud Platforms
2.	AI-based scam and Deep fake threats
3.	Transformers and large language models (LLMs)
4.	Cloud computing in 5G and IOT
5.	Future trends in AI

Department of Electronics and Communication Engineering

Faculty Co-Ordinators:

→ Dr. S. China Venkateshwarlu. Prof - (+91)

→ D. Veeraswamy. Asst. Prof - (+91)

S. No.	Seminar Topics
1.	AI and Machine Learning in Acrospace
2.	Advanced Robotics and Automation
3.	Drone Technology and UAVs
4.	Signal Processing and Communication
5.	Renewable Energy Systems
6.	AI in Communication
7.	Nano-Robotics

Department of Electrical and Electronics Engineering

Faculty Co-Ordinators:

→ Ms. T Saritha Kumari – (+91) 9866723527

S. No.	Seminar Topics
1.	Smart Grids and Microgrids
2.	Vehicle-to-Grid (V2G) Technology
3.	PLC and SCADA in Industrial Automation
4.	Wireless Sensor Networks in Energy Applications
5.	Carbon Capture and Utilization Technologies

Department of Aeronautical Engineering

Faculty Co-Ordinators:

→ Ms. D Anitha - (+91) 9603127305

S. No	Seminar Topic
1.	Green Aviation and Sustainable Fuels
2.	Lightweight Materials and Advanced Composites
3.	Noise Pollution Reduction Technologies
4.	Space Sustainability and Debris Management
5.	Efficient Air Traffic Management (ATM) and Digitalization

Department of Mechanical Engineering

Faculty Co-Ordinators:

→ Dr. B Vijaya Krishna - (+91) 7386512008

S. No.	Seminar Topics
1.	Green Hydrogen as a Future Fuel
2.	3D Printing of Metals (Additive Manufacturing in Aerospace & Automotive)
3.	Digital Twin Technology in Mechanical Systems
4.	Carbon Capture, Utilization, and Storage (CCUS)
5.	Robotics and Collaborative Robots.

Department of Civil Engineering

Faculty Co-Ordinators:

→ Mr. K Anand Goud - (+91) 7097097292

S. No.	Seminar Topics
1.	Sustainable and Green Construction
2.	Smart Cities and Digital Technologies in Civil Engineering
3.	Transportation and Infrastructure Development
4.	Water Resources and Environmental Engineering Solutions
5.	Artificial Intelligence and Machine Learning in Civil Engineering