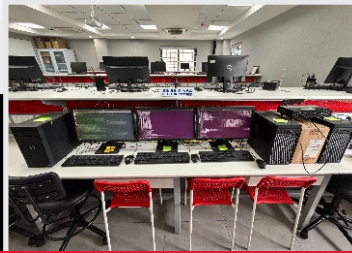## ONE-DAY HANDS-ON WORKSHOP

5G TECHNOLOGY & LIVE TESTBED EXPERIENCE

JANUARY 28TH 2026 📍 6G INNOVATION LABORATORY, EVOLVE CENTRE, MAHINDRA UNIVERSITY, HYDERABAD

Learn 5G on a Real, Live Network

know more..

ABOUT THE WORKSHOP

This one-day intensive workshop provides practical exposure to real 5G network using a fully operational 5G Testbed established at Mahindra University.

Participants gain hands-on experience with 5G Core, gNB, MEC applications, and real-time traffic flows

Who Can Attend?

- UG/PG Students (ECE, CSE, AI, IoT)
- Research Scholars
- Faculty Members
- Industry Professionals

Workshop Highlights

- 5G Architecture (3GPP Rel-15 to Rel-17)
- Standalone (SA) 5G Network Setup
- 5G Core (AMF, SMF, UPF)
- gNB-UE Registration & Data Session
- MEC Applications (Video, IoT, AR)
- Network Slicing & QoS

Live 5G Demonstrations

- 5G SA Call Registration
- Latency & Throughput Analysis
- Video & IoT over 5G
- MEC Integration

Participant Outcomes

✔ Real 5G Network Exposure: Understand how a live 5G network operates beyond simulations and theory.

✔ Hands-on Deployment Skills: Gain practical experience in configuring 5G Core, gNB, UE, and MEC components.

✔ 5G Protocol Understanding: Visualize control-plane and user-plane flows including registration, session setup, and data transfer.

✔ Edge Computing & MEC Knowledge: Learn how low-latency MEC applications are deployed and tested on a 5G network.

✔ Research & Project Readiness: Build a strong foundation for final-year projects, M.Tech theses, PhD research, and publications.

✔ Industry-Aligned Skill Development: Acquire skills aligned with telecom, 5G R&D, system integration, and startup ecosystems.

✔ Certificate of Participation: Receive an official certificate recognizing hands-on training on a live 5G testbed.

Workshop Coordinators

Dr. Subbarao Boddu, Mahindra University
Dr. Prabhu Chandhar, Chandhar Research Labs Pvt. Ltd.

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