

About the Institutes

GMRIT: GMR Institute of Technology (GMRIT) was established in the year 1997 by GMR Varalakshmi Foundation – the corporate social responsibility arm of GMR Group. GMRIT offers aspiring engineers' high quality technical education. It is currently placed among the top 50 colleges in the country and among the top 5 colleges in the state of Andhra Pradesh. GMRIT provides its learning community state-of-the-art facilities, infrastructure, and a competent faculty. The Institute encourages collaborative learning between industry and academia as a means of reinforcing its curriculum with practical and real-world experiences. It offers Eight UG and Five PG programs. All B.Tech programs are accredited by NBA under Tier-1 complying with Washington Accord and the college is accredited as an 'A' grade institution by NAAC for the three consecutive cycles. In the NIRF-ranking GMRIT was placed in the band of 201-300 for the year 2024.

AUCE: Andhra University College of Engineering (AUCE) had been established in 1955 on a sprawling area extending to 160 acres. The Campus offers 17 UG and 35 PG programmes besides research on par with technical institutions worldwide. The strength of the college is its faculty who motivate the students in leading the country in its on-going technological revolution and entrepreneurial skills. The college was supported by Technical Education Quality Improvement Programme (TEQIP), a World Bank funded project to develop technical education in the country. The faculties of the departments are engaged in individual research besides consultancies with public and private and national research with organizations.

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Topic: Foundations of Edge and Fog Computing

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Topic: Empowering Smart Cities with Edge and Fog Computing

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Topic: The Future of Smart Systems: Innovating with AI in Edge and Fog Computing

Mr. B. Ananda Kumar, Persistent Systems, Hyderabad
Topic: Real-time Computing Applications



GMR Institute of Technology

Conducting One-Week Online Faculty Development Program in collaboration with Andhra University College of Engineering

Titled

Innovation Through AI: Edge and Fog Computing for Smarter Systems

25th to 29th March 2025

Organized by

Department of Computer Science & Engineering
&
Department of Computer Science and Systems Engineering



Visit us at: <https://www.gmr.it.edu.in/>

<https://www.andhrauniversity.edu.in/>

About the Departments

Department of Computer Science and Engineering at GMRIT was established in 1997. The department is accredited by NBA under Tier-1 and offers both B.Tech and M.Tech programs. The department has a rich tradition and well-qualified faculty, along with widely recognized laboratories. The department aims to provide a strong foundation in Computer Science and Engineering fundamentals, emphasizing mathematical and scientific principles. Additionally, the course focuses on developing skills in the application of design processes for innovative engineering solutions. The department secured first prize in the national level Smart India Hackathon competitions consecutively in 2022, 2023 and 2024.

The Department of Computer Science and Systems Engineering at AUCE was established in 1983. The department offers two UG and three PG programs. The primary focus is on the development of new computational methods and their innovative applications to contemporary problems in science and engineering. From four decades, the department has been a driving force in innovation, scientific discovery, and global impact. The programmes offered in the department are 3 times NBA accredited and the most recent is for 6 years. The primary goal of the department is to provide the best computing infrastructure, world class learning & research environment, adopt industry practices and to inculcate moral and ethical values in the student fraternity.

About the FDP

The Faculty Development Program (FDP) on "Innovation Through AI: Edge and Fog Computing for Smarter Systems" focuses on the integration of AI with Edge and Fog Computing to create smarter and more efficient systems. As the digital landscape evolves, these technologies are increasingly adopted for real-time data processing and decision-making, bringing computation closer to the data source to reduce latency and bandwidth usage. The program is designed to explore the principles, architectures, and applications that bring computation closer to data sources, minimizing latency and optimizing bandwidth usage.

Objectives

- Understand how AI-driven algorithms enhance decision-making, automation, and real-time analytics in Edge and Fog environments.
- Gain knowledge of fundamental concepts and practical use cases in Edge and Fog Computing
- Explore security challenges associated with AI-driven solutions in Edge and Fog environments.
- Enhance participant's ability to integrate AI-driven solutions into Edge and Fog Computing for real-world applications.

Topics Covered

- Core principles of AI, Machine Learning (ML) and Deep Learning (DL)
- Integration of AI with Edge and Fog Computing
- Security and Privacy in Edge and Fog Computing
- Technologies and Frameworks for Smarter Systems
- Challenges in AI Applications for Edge and Fog Computing
- Future Directions and Research Opportunities.

Contact Persons

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Eligibility

All interested Faculty, Research Scholars, PG Students, and Industry Personnel

Registration Details

Faculty, Research Scholars, PG Students : Rs. 300/-
Industry Participants : Rs. 500/-

Bank Account Details for Payment

Account Name : Indian society of
Technical Education
GMRIT Chapter
Account number : 183610100011155
Bank Name : Union Bank of India
Branch : GMR Nagar, Rajam
IFSC Code : UBIN0804665

(Please upload payment receipt copy along with the UTR number while doing registration)

Registration Link

<https://forms.gle/T5NUQAFKoWktUMZ48>

Certificate

The link for the different sessions will be emailed to the registered participants. The certificate will be issued for those participants who have attended the program with minimum 80% attendance.