

## 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.

**SAIRAMIT:** Sri Sairam Institute of Technology is affiliated to Anna University and approved by the All India Council for Technical Education (AICTE), New Delhi. It is a dynamic and forward-thinking institution, which is committed to foster a community of learners as well to strive for excellence. It is a place of transcendence that always believes in the transformational power of education. It envisions by creating a global hub of cutting-edge education as well to reach sustainable development goals. With unwavering determination, strong perseverance, and an unbreakable spirit, the institution has recorded many achievements and accreditations. In accordance with it, five Engineering departments and the department of Management Studies has been accredited by the National Board of Accreditation for three years. The Bureau Veritas Certification Holding SAS – UK Branch certifies IS/ISO 9001: 2015 Certification, EOMS certification from BIS ISO 21001:2018 and NAAC (A+). Moreover, it is ranked among the top 50 in the National Institutional Ranking Framework for Innovation 2023 and it has also received the BEST INSTITUTION AWARD for the meritorious services rendered under the Youth Red Cross (YRC)

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Director-Education, GMRVF

**Dr. Sai Prakash Leomuthu**  
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## Patron

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## Advisory Board

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**Dr. T. Prabhakar**, CoE, GMRIT

## Chair Persons

**Dr. V. Jagan Naveen**, Professor & HoD-ECE, GMRIT  
**Dr. S. Rajarajan**, Professor & Dean-Academics, SAIRAMIT

## Conveners

**Dr. A. Sudhakar**, Professor, Dept. of ECE, GMRIT  
**Dr. Parameswari**, Associate Professor, Dept. of ECE, SAIRAMIT

## Organizing Committee

**Dr. TVS. Divakar**, Associate Professor, ECE, GMRIT  
**Dr. P. Ravi Kumar**, Sr. Asst. Professor, ECE, GMRIT  
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**Mr. B.M.S. Sreenivasarao**, Asst. Professor, ECE, GMRIT

## Resource Persons

**Mr. K. Sambasiva Rao**, RCI-DRDO, Hyderabad

*Topic: Antennas for Defence and Aerospace Applications*

**Dr. Sukomal Dey**, Indian Institute of Technology, Palakkad

*Topic: Development of Massive MIMO Antennas for 5G Mobile Handset and Base Station*

**Dr. Naresh K. Darimireddy**, LIET (A), Vizianagaram

*Topic: Circularly polarized Microstrip Dielectric & Hybrid Dielectric Resonator Antennas*

**Dr. Yuvaraj S.**, IITDM Kancheepuram, Chennai

*Topic: Recent Trends in Orbital Angular Momentum Beam generation at Microwave/Millimeter Wave Frequencies*

**Dr. T. Anilkumar**, GMR Institute of Technology, Rajam

*Topic: Modeling of High Frequency Antennas*

**Dr. K. Vasu Babu**, BVRITH CEW, Hyderabad

*Topic: Optimization of ML/DL - Assisted MIMO Antennas*



# GMR Institute of Technology

Conducting One-Week Online Faculty  
Development Program in collaboration with Sri  
Sairam Institute of Technology

Titled

## Innovative Technologies in Antennas for High Frequency Applications (ITAHFA-2025)

10<sup>th</sup> to 15<sup>th</sup> February 2025

Organized by

Department of Electronics & Communication  
Engineering

&

Department of Electronics & Communication  
Engineering, SAIRAMIT, Chennai, Tamilnadu.



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

## About the Departments

The Department of Electronics and Communication Engineering (ECE) at GMRIT was established in 1999 and offers a B.Tech in ECE and an M.Tech in VLSI & Embedded Systems. The department is accredited by NBA under Tier-1(Phase-4) and dedicated to impart high-quality education and fostering innovation in the field of electronics and communication. The department has qualified faculty and nurturing the students with solid scientific/technical and research capabilities in the design, and development of Electronic devices and systems used in a wide spectrum of applications. The department also actively promotes research and development, encouraging students and faculty to engage in projects that push the boundaries of technology in the thrust areas of ECE.

The Department of Electronics and Communication Engineering at Sri Sairam Institute of Technology was established in 2008 with an initial intake of 60 students. Subsequently, the intake was increased to 90 in 2009-2010 and 120 from the year 2010-11. The department is certified by ISO 9001:2015 and accredited for three years by NBA expert team. The department has well qualified, experienced teaching faculty and supporting faculty, to impart knowledge and skills. The department has excellent facilities and has well defined laboratories with excellent state of art equipment and software related to the field of Engineering. The department ADVANCED ANTENNA DESIGN AND CHARACTERIZATION LABORATORY sponsored by AICTE under MODROB sanctioned with 11 Lakhs in the year 2019. The department is Institutional member of IEEE, ISTE and IETE which organizes various value-added programs for the benefit of the students.

## About the FDP

The Six-Day Online Faculty Development Program (FDP) on “Innovative Technologies in Antennas for High-Frequency Applications” is a meticulously designed initiative aimed at equipping faculty members, researchers, and professionals with in-depth knowledge and advanced skills in high-frequency antenna technologies. With rapid advancements in communication systems, satellite networks, and wireless applications, high-frequency antennas have become a cornerstone for next-generation technologies. This FDP seeks to bridge the gap between theoretical concepts and practical applications while fostering a deeper understanding of emerging trends in antenna technology.

The program offers a comprehensive exploration of cutting-edge topics and their practical implications, empowering participants to contribute to advancements in the field. Participants will delve into the following key areas of high-frequency antenna technologies

### Topics Covered

- Advanced antenna designs for defence and aerospace, focusing on precision, reliability, and performance in harsh environments.
- Massive MIMO antennas for 5G, enabling high-speed data, enhanced connectivity, and efficient spectrum use.
- Innovative antenna structures for better polarization, reduced interference, and wide-angle coverage.
- Orbital Angular Momentum (OAM) beams to revolutionize data transmission with higher capacity and bandwidth.
- High-frequency antenna modeling with a focus on simulation and performance optimization.

## Contact Persons

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<b>Dr. T. Anilkumar</b>	<b>: +91-9492298254</b>
<b>Dr. N. Prasad</b>	<b>: +91-9398353709</b>

## 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
IFSC Code	:	UBIN0804665
Branch	:	GMR Nagar, Rajam

(Please send a payment receipt copy along with the UTR number via WhatsApp to 9398353709 (Dr. N. Prasad))

## Registration Link

<https://forms.gle/KyGVkcFhqZezbjqe6>

## 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.