

RESOURCE PERSONS

Following eminent personalities with expertise in IoT driven Antennas for Satellite Navigation systems from premier Institutes and industries will deliver lectures on various topics.

Dr Samrat L Sabat, Director R&D, UOH

Dr M Lakshmi Narayana, Ex Director

Scientist H, DLRL, Hyderabad

Dr M Chakravarthi

Scientist H, DLRL, Hyderabad

Dr K Sambasiva Rao

Scientist F, RCI, Hyderabad

Dr. V Srinivasa Rao

Scientist F, RCI, DRDO, Hyderabad

Amit kumar Choudhary

CEO, Pragyatmika Industry, Hyderabad

Dr P Srihari Rao

Professor, ECE, NITW

Dr SKLV Sai Prakash

Assoc Professor, ECE, NITW

Dr M V Ragunadh

Assoc Professor, ECE, NITW

Dr G Arun Kumar

Asst Professor, ECE, NITW

Dr Gopi Ram,

Asst Professor, ECE, NITW

Dr A Bharathi,

Associate Professor, OU, Hyderabad

IMPORTANT DATES:

Last date of registration: **11.12.2023**

Intimation of selection on or before: **13.12.2023**

ELIGIBILITY AND SELECTION

Faculty from AICTE approved Engineering Colleges can apply. PhD Scholars/ PG Students/ Industry personnel can also apply. Selection is on "first come first serve" basis and number of participants for the ATAL FDP is limited to 60.

REGISTRATION:

Registration is mandatory for attending the FDP through ATAL FDP portal.

No fee will be charged from any participant attending ATAL FDP. External Participants (traveling more than 20KM one side to attend the FDPs) who attend at least 90% of the sessions shall be reimbursed with the cost of traveling, with a blanket amount of Rs. 2000/- at the end of the FDP. Accommodation will be provided on request (on Payment) for outstation participants. Refreshment & lunch will be provided.

CRITERION FOR CERTIFICATE

Certificates will be issued to those participants who attend the FDP with minimum 80% attendance and on achieving at least 70% in Continuous Comprehensive Assessment.

CHIEF PATRONS

Sri G. RAGHAVA REDDY, Chairman

Smt. G. SRIVIDYA REDDY, Vice Chairperson

PATRON

Dr K. RAMESH REDDY, Principal

CHIEF GUEST

Dr. SAMRAT L SABAT,
Director R&D, UOH, Hyderabad

CONVENER

Dr. K. RAGINI, Professor, HOD, ECE

COORDINATOR

Dr. G. SRIVALLI, Assoc. Professor, ECE

CO-COORDINATOR

N. KRISHNA JYOTHI, Asst. Professor, ECE



**ATAL (AICTE Training and Learning) Academy
ONE WEEK NATIONAL LEVEL**

**FACULTY DEVELOPMENT PROGRAM
ON
ADVANCEMENTS IN IOT-DRIVEN
ANTENNAS FOR SATELLITE
NAVIGATION SYSTEMS
18th – 23rd DECEMBER 2023**



Organized by

**Department of Electronics and
Communication Engineering
G. NARAYANAMMA INSTITUTE OF
TECHNOLOGY & SCIENCE
Autonomous (For Women)
Accredited by NAAC & NBA
Shaikpet, Hyderabad-500104
website: www.gnits.ac.in**

ABOUT THE COLLEGE

Established in 1997 by Sri G. Pulla Reddy garu, G. Narayanamma Institute of Technology & Science (GNITS) is a renowned women's engineering college in Hyderabad. With UGC autonomous status for a decade from 2018 and affiliation to JNTU-H, it's a hub for technical education. Accredited by NAAC & NBA, and an ISO 9001:2015 Certified Institution, GNITS offers exceptional placements and boasts affiliations with ISTE, IET, CSI, IEEE, and IETE. Noteworthy accolades include the "AICTE Internshala Award," "National Employability Award" thrice, and a remarkable "Health and Wealth Hackathon" victory. It's a pioneer in fostering female technocrats, upheld by remarkable recognition and the coveted sponsorship of its MAC Lab by Tim Cook in 2016.

ABOUT THE DEPARTMENT

Established in 1997 with an initial intake of 60 students, the Department of Electronics and Communications Engineering at G. Narayanamma Institute of Technology & Science (GNITS) has flourished. The department now boasts 39 dedicated faculty members, including 8 with doctorates, and 8 non-teaching staff. With 180 undergraduate and a postgraduate program, the department's facilities include 15 well-equipped laboratories and 9 classrooms, enhanced by an advanced digital E-classroom. Remarkably, the department has secured 10 patents and established 2 R&D centers focusing on Antenna design, IoT, and cutting-edge research equipment. Above 95% placement in renowned IT and Core companies attests to its excellence.

ABOUT ATAL ACADEMY

AICTE is committed for development of quality technical education in the country by initiating various schemes launched by Govt. of India, Ministry of Human Resource Development. Council understands that there is a need to train the young generation in skill sector and having faculty and technicians to be trained in their respective disciplines. Training is required for increasing the knowledge and skills of students to make them more employable to acquire global competencies.

AICTE Training and Learning (ATAL) Academy is established with the vision "To empower faculty to achieve goals of Higher Education such as access, equity and quality".

AICTE Training and Learning Academy (ATAL

Academy) facilitates (through trainings and workshops) up-gradation of the knowledge and skills of faculty members of AICTE approved Institutions, Research Scholars, PG Scholars, Participants from Government, Industry and staff of host institution.

FDP COURSE CONTENTS:

- Understand the fundamentals of satellite navigation systems and their role in various applications and industries.
- Explore the principles of Internet of Things (IoT) technology and its integration with antenna design for satellite navigation.
- Analyze the challenges and opportunities in developing IoT-driven antennas for precise and reliable satellite navigation.
- Review the latest research and advancements in antenna technologies, focusing on IoT-enabled solutions for satellite navigation systems.
- Evaluate the impact of IoT integration on antenna performance, signal reception, and navigation accuracy in satellite-based positioning.
- Study the benefits and limitations of IoT-embedded antennas in overcoming interference and signal degradation in satellite navigation systems.
- Design and simulate IoT-integrated antennas using software tools for satellite navigation applications.
- Develop practical skills in testing, measuring, and optimizing the performance of IoT-driven antennas in real-world scenarios.
- Assess the cost-effectiveness and scalability of IoT-based antennas in satellite navigation deployments.
- Encourage innovative thinking and collaboration among participants for potential research and development projects in the field of IoT-driven antennas for satellite navigation.

PROGRAM OUTCOMES:

Upon completion of the FDP, participants will

- Understand the principles and significance of satellite navigation systems and their applications in various industries.
- Gain knowledge of IoT technology and its integration with antenna design for satellite navigation systems.
- Analyze and address challenges related to developing

IoT-driven antennas for precise and reliable navigation.

- Evaluate the latest research and advancements in antenna technologies, particularly focusing on IoT-enabled solutions for satellite navigation.
- Design, simulate, and optimize IoT-integrated antennas for improved navigation accuracy and signal reception.
- Demonstrate practical skills in testing and measuring antenna performance in real-world scenarios.
- Identify opportunities for research and development projects in IoT-driven antennas to enhance satellite navigation systems.

CONTACT DETAILS

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G NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(Autonomous)

Affiliated to JNTUH, Approved by AICTE, Accredited by NAAC, Shaikpet, Hyderabad 500104, Telangana, India

Department of Electronics and Communication Engineering

Schedule for One week FDP on

ADVANCEMENTS IN IOT-DRIVEN ANTENNAS FOR SATELLITE NAVIGATION SYSTEMS

Day 1(18-12-23)	Day 2 (19-12-23)	Day 3 (20-12-23)	Day 4 (21-12-23)	Day 5 (22-12-23)	Day 6 (23-12-23)
9:00 – 9:30 Inauguration					
9:30 – 12:00 Dr. Samrat L Sabat	9:30 – 11:30 Dr SKLV Sai Prakash	9:30 – 12:00 Dr G Arun Kumar	9:30 – 12:00 Dr Sachin Chaudhari	9:30 – 12:00 Dr Amit Kumar Choudhary	9:30 – 11:00 Dr K. Sambasiva Rao
12:00 – 1:00 Article Discussion	11:30 – 1:00 Dr MV Raghunadh	12:00 – 1:00 Article Discussion	12:00 – 1:00 Article Discussion	12:00 – 1:00 Article Discussion	11:00 – 1:00 Dr A. Bharathi
1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch
2:00 – 4:30 Dr. M Chakravarthy	2.00– 3:00 Dr M Lakshmi Narayana	2:00 – 4:30 Dr Gopi Ram	2:00 – 5:30 Visit to Antennas related Industry	2:00 – 4:00 Dr P. Srihari	3:00 – 4:30 Reflective Journals, MCQ, Feedback
4:30 – 5:30 Hands- On HFSS Dr G Srivalli	4:30 – 5:30 Hands- On HFSS Ms N Krishna Jyothi	4:30 – 5:30 Hands- On HFSS Ms N Krishna Jyothi		4:00 – 5:30 Dr V. Srinivasa Rao	4:30 – 5:30 Valedictory