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About the Institution

Nalla Narasimha Reddy Education Society's Group of Institutions - Integrated Campus was established and registered with the primary objective of educating young men and women, preparing them to meet the rapidly changing national and international requirements, supporting the needy, and promoting research in the fields of science and technology.

In pursuit of this vision, an Integrated Contiguous Campus offering multidisciplinary programs in Engineering, Pharmacy, and Management under the banner of Nalla Narasimha Reddy Education Society's Group of Institutions (NNRG) was founded in 2009. The institution is affiliated to Jawaharlal Nehru Technological University, Hyderabad (JNTUH), and approved by AICTE, New Delhi and PCI, New Delhi. It was established with the sole objective of providing world-class technical education.

The Institute has been conferred Autonomous Status by the University Grants Commission (UGC) for a period of 10 years (from 2021). It is accredited by the National Assessment and Accreditation Council (NAAC) with an "A+" grade and by the National Board of Accreditation (NBA) for its CSE and ECE programs. The college is recognized under Section 2(f) of the UGC Act, 1956, and is ISO 9001:2015 certified.

NNRG aspires to be among the most premier educational institutions in Telangana, striving to produce high-quality graduates who contribute meaningfully to society, the nation, and the global community through innovation and excellence. The institution is committed to establishing a Continuous Quality Improvement (CQI) system that consistently evaluates and enhances the quality of education, training, and teaching-learning practices, leading the Institute toward academic excellence.



NALLA NARASIMHA REDDY

Education Society's Group of Institutions - Integrated Campus

(UGC AUTONOMOUS INSTITUTION)

School of Engineering

Department of Electronics & Communication Engineering



A One Week Online

Faculty Development Programme

on

Unified Frontiers in Wireless Communication and Radio Networking

11th – 15th November, 2025

Program Coordinator

Dr. S. Rekha

Associate Professor, ECE Department

Program Co-coordinator

Mr. A. Aravind

Assistant Professor, ECE Department



Chowdariguda, Medchal (Dist.), Hyderabad – 500088

About FDP

The Faculty Development Program on “**Unified Frontiers in Wireless Communication and Radio Networking**” aims to provide an in-depth understanding of the latest trends and technologies shaping the future of wireless communication. With the rapid evolution of 5G and the emergence of 6G networks, this FDP focuses on key areas such as AI-driven Radio Access Networks, Cognitive Radio Networking, and advanced Optimization Algorithms that are revolutionizing communication systems. The program is designed to equip participants with comprehensive insights into intelligent and adaptive network architectures that leverage artificial intelligence for efficient spectrum utilization, dynamic resource management, and enhanced connectivity. The FDP will provide both theoretical insights and hands-on exposure through expert sessions and technical workshops.

Objectives

- ❖ To provide participants with a comprehensive understanding of emerging wireless architectures, including AI-driven Radio Access Networks and Cognitive Radio Networking concepts.
- ❖ To enhance participants' ability to apply optimization algorithms and artificial intelligence techniques for improving wireless communication performance and efficiency.
- ❖ To bridge the gap between theoretical research and industrial advancements in next-generation Wireless Communication technologies such as 5G and 6G networks.

Expected Outcomes

After Completion of FDP, the participants will be able to

- ❖ Gain knowledge of intelligent and adaptive wireless network architectures and their practical implementation aspects.
- ❖ Develop the ability to integrate AI and optimization-based approaches in Wireless Communication System Design and Analysis.
- ❖ Equipped to pursue advanced research, teaching, and project development in emerging areas of wireless communication and networking.

Topics Covered

- Communication Network for Satellite
- AI driven Radio Access Networks
- Cognitive Radio Networking
- Advances in wireless Communication
- RF Energy Harvesting

Who Can Attend?

Academics, Research Scholars, Industry Person, UG/PG Students

Resource Persons

The Sessions will be handled by distinguished Professional/Former Scientist from **ISRO** and experienced Faculty members from Reputed Institutions such as **NIT**.

Important Dates:

Last date for Registration: **05.11.2025**

FDP dates: 11th – 15th November, 2025

FDP Mode: Online

Registration Details

No Registration fee

Registration link

<https://forms.gle/8dypjUVhBZZKdWvHA>

Registration QR Code



Address for Communication

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2) Mr. A. Aravind, Assistant Professor, ECE

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Schedule

Time: 02:00 PM – 03:30 PM	
Day 1 (11-11-2025)	Speaker: Dr. BV Subbarao, Distinguished Professional- AICTE, Former Scientist, ISRO-SHAR Topic: Integrated Communication Networks for Satellite Launch and Range Operations
Day 2 (12-11-2025)	Speaker: Dr S Radha, Assoc. Prof., Dept. of ECE, CBIT, Hyderabad Topic: AI driven Radio access networks, emerging wireless architectures
Day 3 (13-11-2025)	Speaker: Dr. G Shine Let, Assistant Professor (Senior Grade), Dept. of ECE, Karunya Institute of Technology and Sciences, Coimbatore Topic: Exploring Cognitive Radio Networks: Concepts and Real-Time Applications
Day 4 (14-11-2025)	Speaker: Dr. Navin M George, Associate Professor, Dept. of ECE, Nehru Institute of Engineering and Technology, T.M Palayam, Coimbatore Topic: RF Energy Harvesting Antennas and Rectenna Design
Day 5 (15-11-2025)	Speaker: Dr. Suman Nelaturi, Assistant Professor, Dept. of ECE, NIT Kurukshetra Topic: Active Electronic Scanned Arrays

Certification

The certificates shall be issued to participants who registered through given link, maintain minimum of 80% attendance, and complete the Assessment