

ABOUT THE COLLEGE

The Narasaraopeta Engineering College (NEC) was established in the year 1998 by Gayatri Educational Development Society, Narasaraopet, Guntur (Dist.) Andhra Pradesh. The college is approved by AICTE, Permanently affiliated to JNTUK University Kakinada, Andhra Pradesh. Accredited 'A+' Grade by NAAC (cycle-2) and Accredited by NBA (Tier-1) for CSE, ECE and ME departments. The college has three recognized Research Centres by JNTUK University. NEC is conferred as 'AUTONOMOUS' in the year 2016. The college has launched Incubation Centre where the students can implement their ideas. The college has MOUs with various Foreign Universities. The college offers seven M.Tech programmes, two PG courses of MCA, MBA and Eleven courses at B. Tech level in the branches EEE, CSE, IT, CSE (AI), CSE(AIML), CSE(DS), CSE(CS), AIML, ECE, ME and CIVIL. The college has well equipped laboratories including 1400+ computers with a bandwidth of 1Gbps internet. Microsoft Innovation Centre was established in the college through which more than 200 Mobile Apps, 50 Cloud Apps and 100 Windows Apps are uploaded every year.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering was established in 1998 with an initial intake of 40 students for its B.Tech program. Over the years, the intake capacity has increased, and the current enrolment stands at 360 students. The department also offers three postgraduate programs:

- M.Tech in Digital Electronics and Communication Systems (started in 2004 with an intake of 18 students),
- M.Tech in Digital Systems and Computer Electronics (started in 2006 with an intake of 18).
- M.Tech in VLSI & Embedded Systems (Started in 2023 with an intake of 18 students)

The department has a team of highly qualified and experienced faculty members. The department has good infrastructural facilities and has full-fledged laboratories equipped with adequate state of the art equipment and latest software. The UG programme of the department is accredited four times by the NBA. The department has Embedded Systems and Robotics Lab which was established under IIT Bombay E-Yantra Project. The department has vibrant atmosphere for the students to emphasize on fundamentals and concepts focusing on analysis and design of various applications to fulfill the needs of industry.

Chief Patrons

Prof. T. G. Sitharam
Chairman, AICTE

Prof. Abhay Jere
Vice Chairman, AICTE

Patrons

Sri M.V. Koteswara Rao
B.Sc., Chairman, NEC Group

Sri M.S. Chakravarthi
B.Tech, MS (USA), Exec-MBA (ISB)
Vice - Chairman, NEC Group

Sri M. Ramesh Babu
Secretary, NEC Group

Dr. S.Venkateswarlu
Principal

Dr. D. Suneel
Vice-Principal

Organizing Committee

Dr. K. Raju	Dr. Y. Jaipal Reddy
Dr. J. Brahmaiah Naik	Dr. Sk. Ebraheem Khaleelulla
Dr. B. Suneetha	Dr. Y. V. Lakshmaiah
Dr. Md. Javed Ahmed	Dr. Sk. Nannu Saheb
Dr. B. Siva Nageswara Rao	Dr. G.V. Ramana Reddy

All other Faculty Members of ECE Department

Registration:

Registration is compulsory for the participant.
Kindly register before 10th July 2025.

(Registration Limited to 100 Participants on
First come First Serve Basis)

For Registration use the following link

<https://atalacademy.aicte-india.org/signup>
Registration ID : 1743228037



NARASARAOPETA
ENGINEERING COLLEGE
(AUTONOMOUS)



AICTE ATAL

Sponsored offline FDP

Emerging Technologies in Wireless Communications

During
14th - 19th July, 2025

Coordinator
Dr. K. Srinivasarao

Co-Coordinator
Dr. V.Venkata Rao

Organized by
Department of
Electronics and Communication Engineering

Kotappakonda Road, Yellamanda (P.O),
NARASARAOPET – 522601, Palnadu District, A.P.
Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada,
Accredited by NBA(Tier-1), Accredited by NAAC with 'A+' Grade
www.nrtec.in

AICTE TRAINING AND LEARNING (ATAL) ACADEMY

AICTE Training and Learning (ATAL) Academy, established by MOE, Government of India, holds the vision to empower faculty to achieve goals of higher education such as access, equity, and quality. Council understands that there is a need of the day to train the young generation in skill sector and having faculty & technicians to be trained in their respective disciplines with latest tools and technologies. The main objective of ATAL Academy is to plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation, and entrepreneurship through training in various emerging areas. It also provides a variety of opportunities for training and exchange of experiences such as workshops, orientations, learning communities, peer mentoring and other FDPs.

DISCUSSION PLANNED

- Potential communication technologies for 6G and Beyond
- The Transformative Role of RIS in Enabling 6G Communications
- Towards Energy-Efficient and Reliable Underwater Acoustic Communication Using NOMA-Based Protocols.
- AI/ML for Waveform Techniques in 5G/6G Communications.
- Hands-on-Demo: 5G Physical Layer Processing on FPGAs
- 5G-Advanced and 6G: Shaping the Future of Wireless Networks
- The role of Machine Learning (ML) in next-generation Wi-Fi and Wireless Networks.
- VLC for 5G and beyond
- Mathematical Modelling and Analysis of IRS assisted Wireless System for 6G Communication.
- Emerging Trends in Wireless Communication: Channel Modeling, NOMA Technology, and Performance Analysis in Multiuser Systems
- Multiple Access techniques for 5G and beyond communication

The objectives of this program are designed to provide a comprehensive understanding of modern and future wireless communication technologies. The course begins by introducing the key features of 5G networks and exploring future expectations from 6G wireless systems.

ACADEMIC EXPERTS

Dr. Sanjeev Sharma, Assistant Professor, IIT, BHU, Varanasi

Dr. V.Venkata Mani, Professor, NIT Warangal

Dr. M.Surendar, Assistant Professor, NIT Puducherry

Dr. Rahul Pal, Assistant Professor, NIT Bhopal

Dr. V. Goutham, Assistant Professor, VIT Vellore

Dr. Hanumantharao Bitra, Assistant Professor, VIT-AP

Dr. M. Mahesh, Assistant Professor, VIT-AP,

Dr. Priyanka Sharma, Assistant Professor Central University, Jammu

Dr. K.Srinivasarao, Associate Professor, Narasaraopeta Engineering College (Autonomous)

INDUSTRY EXPERTS

Dr. Nettimi Satya Sai Srinivas, Senior FPGA Design Engineer, DEAL - DRDO, Dehradun, Uttarakhand.

Dr. M. Hemanta Kumar, Sr. Baseband Engineer, STUAM Technologies Pvt.Ltd, Hyderabad.

GUIDELINES

The FDP will be conducted in Physical Mode. There will be 12 sessions in six days and two sessions every day. And one session may be utilized for industrial visit and one session for feedback, assessment & Journal Reflection. As per AICTE Training and Learning (ATAL) Academy guidelines no registration fee will be charged from the participants.

Resource Persons

Resource persons are from various IIT's, NIT's, IIIT's, State & Central Universities and Industries.

Eligibility

This AICTE sponsored FDP is open to the faculty members of AICTE approved Institutions, Research scholars, participants from Government, Industry (Bureaucrats/ Technicians/ Participants from Industry etc.) and staff of host institutions.

Key dates

Last Date for Registration: 10.07. 2025

Dates for the FDP: 14.07.2025 to 19.07.2025

For Further details contact:

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