About the Institute

Dr. P. Narayana, an Educationalist nurtured this institute as Narayana Engineering College, Gudur (NECG) in the year 2001. The All India Council for Technical Education (AICTE), Government of India, has given approval to all the courses offered at NECG. This college is affiliated to JNTUA, Anantapuramu. At inception in 2001 three Under Graduate Engineering courses (B.Tech) were offered namely, Electronics and communication, Computer Science & Engineering and Information Technology with a total intake of 180 per year.

With the constant support and effort by the Management, Faculty, Students, and Parents the college expand both quantitatively and qualitatively, we have included UG courses in Electrical & Electronics Engineering in 2002, Post graduation courses Master of Business Administration and Master of Computer Applications were commenced in the academic year 2007-08, UG courses Civil Engineering and Mechanical Engineering in the year 2011 and 2012 respectively, M.Tech programs in ECE (DECS) was initiated in 2011, similarly M.Tech in CSE and EEE Dept's started in 2012, VLSI Technology, Advanced Communication Technology, AI & ML are 3 new specialization courses introduced in 2023. At present, we have a total intake of 660 UG students and 300 PG students per year.

At NECG we have exceptional faculty, resources and environment for teaching learning. Our Moto is to give the students a distinction in his or her career, our goal is to shape their future in all the ways. NECG is recognized under section 2(f) & 12(B) of the UGC Act on 16th July, 2019. The institution secured NAAC "A" grade in Cycle: 1 on 20th May 2019. NECG is recognized by MSME as Host Institute (HI) for business Incubation (BI) on 5th Jan, 2020. The Institution attained UGC-Autonomous status 20th Dec, 2020. The UG programmes of Computer Science and Engineering (CSE) , Electronics and Communication Engineering (ECE) are accredited by the NBA for 3 Years .

About the Department

The Department of Electronics and Communication Engineering (ECE) was established in the year 2001. The department offers undergraduate (UG) program in ECE (150), VLSI Technology (60), Advanced Communication Technology (60) and post- graduate (PG) program with intake of 09.

The department has, experienced and committed faculty members and is on the upward trajectory in terms of research. The focus of the department is to publish research papers in SCI/Scopus journals with high impact factors. The Department has state of the art Laboratories, in the fields of Analog circuits, Communications, Signal and Image processing, VLSI, Embedded systems and IOT.

The department has signed MoUs with various industries. The department has inaugurated a student association called "e-Brains" under the association, co-curricular activity/programme are conducted for the benefit of students. Swecha Learning Centre in association with Swecha AP was established in 2020 and a lot of events, both inside (technical) and outside the campus (BalaSwecha) are conducted.

Student chapters are established for professional bodies like IEEE, ISTE, IEI and IETE to enhance research activities. Faculty are also members in these professional bodies. Further, the students of the department are encouraged to take up in-plant trainings, summer internships and project work at industries and the department ensures that all the eligible students are placed on campus in top MNCs.
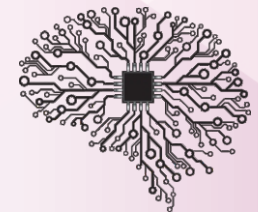
The Department of Electronics and Communication Engineering (ECE) is accredited by the National Board of Accreditation (NBA) in 2023 for 3 years.

About the FDP

Artificial Intelligence has grown in leaps and bounds and is very popular in today's world. It is the simulation of natural intelligence in machines that are programmed to learn and mimic the actions of humans. Machine learning (ML) is a classical sub-discipline within Artificial Intelligence (AI). This discipline is increasingly used by many professions and industries to optimize processes and implement adaptive systems. Since AI is an efficient data processing system at its core, there's a lot of potential for optimization everywhere. Since it has become a master with its applications, we will understand that how it is advancing dramatically in various domains of ECE in this programme.

Session Topics

- Recent Trends in ECE- An approach through AI, ML and DL
- Evolution of AI application in Industrial Revolution 4.0
- Basics and Advancement in ANN, Applications of ANN
- Earth Station Antenna and its role in various Applications
- Control and Instrumentation Strategies in fabrication of Electronic Products.
- Foundation of Machine Learning
- Recent Trends in Machine Learning for ECE applications
- Foundation concepts of AI & Underwater applications
- AI applications in Marine Robotics
- Autonomic Cloud Computing, Cloud / Fog Robotics
- RF/mm Wave LNA & LC VCO for AI based Receiver
- MW Radar Sensor & Applications
- Machine Learning for Radar System Applications
- Image & Video Processing Algorithms and Architectures
- Machine Learning for Video/Image Processing
- ML and DL Accelarator Design

Resource Persons

1. **Dr.Periasamy Pradeep,** Founder, BiggDa Aerospace Analytics (Drone Manufactures), IEEE Mentor, Technopreneur, Angel Investor
2. **Dr. K L V Sai Prakash Sakuru** Associate Professor, Dept of ECE, NIT, Warangal
3. **Mr Josyula Chandra Sekhar,** Senior Director - Data Analytics, Trudata Solutions, Hyderabad
4. **Prof B Lakshmi**, Professor, Dept of ECE, NIT Warangal
5. **Dr. Tata Sudhakar**, Scientist – G (Rtd), NIOT, Chennai
6. **Dr.P.S.Sai Krishna**, Assistant Professor, Dept of Electrical Engg, IIT,Tirupathi
7. **Dr.K.Vasudeva Reddy**, Principal Engineer, Global Foundries, Bangalore
8. **Dr. P.Srihari** Associate Professor, Dept of ECE, NITK, Surathkal
9. **Dr. Swarna Ravindra Babu,** Founder & CEO, Coovum Smart Systems, Chennai
10. **Dr Muralidhar Pullakandam** Associate Professor, Dept of ECE, NIT, Warangal

Registration

Registration Link
https://forms.gle/RenR1pnXUA8E6jgVA

➢ No Registration Fee.
➢ No. of Registration limited to 30.
➢ Participants will be selected based on first come first serve basis.
➢ Accommodation will be provided for outstation participants.

Venue

Civil Seminar Hall
Narayana Engineering College, Gudur

Contact

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Chief Patron
Prof. G. Ranga Janardhana
Hon'ble Vice-Chancellor, JNTUA, Ananthapuramu

Patrons
Prof. M. Vijaya Kumar
Rector, JNTUA.

Prof. C. Sashidhar
Registrar, JNTUA.

Program Director
Prof. B. Eswara Reddy
Director, Faculty Development Cell, JNTUA. Secretary, ISTE AP section

With Best Wishes from
Dr. P. Narayana
Founder Chairman
Narayana Educational Institutions

Chair Person
Dr. V Raviprasad
Principal, NECG

Co-Chair Person
Dr. K.Vishwak Sena Reddy
Vice Principal, NECG

Program Coordinators
Dr. P. Sreenivasulu
Professor & HOD of ECE, NECG

Dr. K H Shakthi Murugan
Associate Professor of ECE, NECG

NARAYANA
ENGINEERING COLLEGE::GUDUR
NAAC 'A' GRADE (AUTONOMOUS)
Run by Narayana Educational Society
Dhurjati Nagar, Gudur, Tirupati Dist., AP - 524101

FIVE DAY
FACULTY DEVELOPMENT PROGRAMME
On

APPLICATIONS OF ARTIFICIAL INTELLIGENCE IN ECE

Date : 22nd to 27th January 2024

Organized by

Faculty Development Cell
Jawaharlal Nehru Technological University
Anantapur, Ananthapuramu
and
Department of
Electronics and Communication Engineering
NECG