

DEPARTMENT OF ECE NEWSLETTER

JAN-FEB 2026

Faculty Members:

Dr. V. Jagan Naveen
Professor & HOD



Dr. B. Anil Kumar
Associate Professor



Mrs. S. Shanmathi
Assistant Professor



Student Members:

Sura Aswini
22341A04H1
ECE-C



V. Renuka
22341A04I4
ECE-C



K. Dileep Kumar
22341A0482
ECE-B



Goka.Divya
22341A0460
ECE-A





TABLE OF CONTENTS

1. DEPT. OF ELECTRONICS AND COMMUNICATION

- 1.1. Overview
- 1.2. Vision
- 1.3. Mission
- 1.4. Programme Educational Objectives (PEOs)
- 1.5. Programme Outcomes (POs)
- 1.6. Facilities & Infrastructure
- 1.7. Major Courses

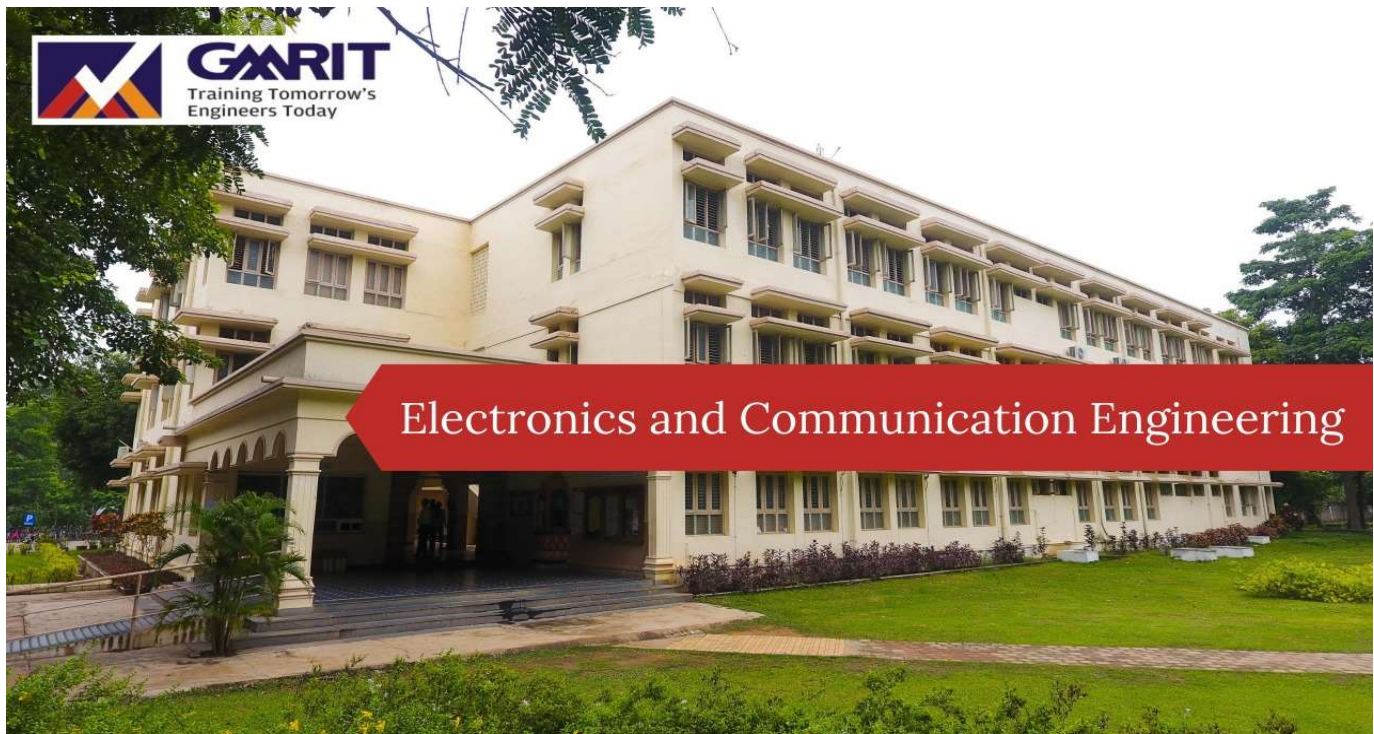
2. STUDENT ACTIVITIES

3. FACULTY PUBLICATIONS & ACHIEVEMENTS

4. SEMINARS AND WORKSHOPS ATTENDED

1.1. OVERVIEW

Electronics & Communication Engineering Department provides students with a solid scientific/technical background and research capabilities in the design, development and manufacture of electronic devices and systems used in a wide spectrum of applications. The applications spans from household appliances to sophisticated satellite communication, from electronic ignition to neural networks and signal processing chips. The Department integrates academic discipline with project-based engineering applications, classroom learning and theory with real world experiences. Annual intake of this Department is 180 students.



1.2. VISION

To be a nationally preferred department of learning for students and teachers alike, with dual commitment to research and serving students in an atmosphere of innovation and critical thinking.

1.3. MISSION

To provide high-quality education in Electronics & Communication Engineering to prepare the graduates for a rewarding career in Electronics & Communication Engineering and related industries, in tune with evolving needs of the industry.

To prepare the students to become thinking professionals and good citizens who would apply their knowledge critically and innovatively to solve professional and social problems.

1.4. PROGRAMME EDUCATIONAL OBJECTIVES (PEO'S)

1. Embrace technical and professional skills with the spirit of learning, critical thinking while acquiring the fundamentals in science and technology. (PEO1)
2. Contemplate real life problems, design and develop novel products that are technically viable, economically feasible and socially acceptable. (PEO2)
3. Encompass ethical values, exhibit soft skills in management & teamwork acquiring leadership qualities. (PEO3)

1.5. PROGRAMME OUTCOMES (PO'S)

At the end of the Programme, a graduate will be able to

- PO 1. Apply the knowledge of basic sciences and fundamental engineering concepts in solving engineering problems.
- PO 2. Identify and define engineering problems, conduct experiments and investigate to analyze and interpret data to arrive at substantial conclusions.
- PO 3. Propose an appropriate solution for engineering problems complying with functional constraints such as economic, environmental, societal, ethical, safety and sustainability.
- PO 4. Perform investigations, design and conduct experiments, analyze and interpret the results to provide valid conclusions.
- PO 5. Select/develop and apply appropriate techniques and IT tools for the design & analysis of the systems.
- PO 6. Give reasoning and assess societal, health, legal and cultural issues with competency in professional engineering practice.
- PO 7. Demonstrate professional skills and contextual reasoning to assess environmental/societal issues for sustainable development.
- PO 8. Demonstrate Knowledge of professional and ethical practices.
- PO 9. Function effectively as an individual, and as a member or leader in diverse teams, and in multi-disciplinary situations.

- PO 10. Communicate effectively among engineering community, being able to comprehend and write effectively reports, presentation and give / receive clear instructions.
- PO 11. Demonstrate and apply engineering & management principles in their own / team projects in multidisciplinary environment.
- PO 12. Recognize the need for, and have the ability to engage in independent and lifelong learning.
- PSO 1. Apply the knowledge of technological evolutions, model / characterize devices and design the integrated circuits to build analog and digital systems. (Program Specific)
- PSO 2. Understand and apply the fundamentals of communication and signal processing to develop systems wrapped with industry standard protocols and standards. (Program Specific)

1.6. FACILITIES & INFRASTRUCTURE

- ❖ Analog & Digital Communication Lab
- ❖ Integrated Circuit & Pulse Digital Circuits Lab
- ❖ Electronic Device Circuits Lab
- ❖ Microwave & Optical Communication Lab
- ❖ Microprocessor & Micro Controller Lab
- ❖ ECAD Lab
- ❖ Basic Electronics Lab
- ❖ Digital Signal Processing Lab

1.7. MAJOR COURSES

- ❖ Digital Signal Processing
- ❖ Radar Engineering
- ❖ Computer Organisation
- ❖ Electronic Devices and Circuits
- ❖ Analog and Digital Circuits
- ❖ Microwaves

- ❖ VLSI
- ❖ Satellite Communication
- ❖ Cellular Mobile Communication
- ❖ Optical Communication
- ❖ Management Science
- ❖ Pulse & Digital Circuits and Integrated Circuits
- ❖ Electromagnetic Waves
- ❖ Antennas
- ❖ Microprocessors
- ❖ Digital Image Processing
- ❖ Embedded Systems Design and IoT
- ❖ RTL coding Techniques
- ❖ ASIC verification using system Verilog
- ❖ Electronics for Agriculture

2.STUDENT ACTIVITIES

PROFESSIONAL SOCIETY ACTIVITIES

ISTE EVENTS:

- **Tech Pictionary:** Conducted on 10/02/2026.
- The Indian Society for Technical Education (ISTE) organized “Tech Pictionary” on February 10, featuring two engaging rounds. The first round is a participant draws a technical word while their team guesses it. The second round is movie or song pictures are shown, followed by technical questions based on correct guesses. This unique mix of academics highlighted the creativity, strategy, and intellectual strength and the teamwork of the participants
- Number of participants: 48
- Conducted by Student coordinators:
 - S. Parimala (24341A04D0)
 - P. Kavya (24341A04E0)
 - R. Sudheer (24341A04F2)
- This event was conducted successfully.





STEPCONE EVENTS

FLAGSHIP EVENT

Conducted by Dept. of ECE and ROBOTICS Club

Event Name: BATTLE BOTS

Organized by: ECE Department

Event Type: Robotics Competition

Date: 02/01/2026

Venue: ECE Ground

Faculty Coordinator: Dr. B. Anil Kumar (ECE Department)

- This event was organized as part of Stepcone events.
- **Participants:** 48 students actively participated.



Participants

- This event was conducted successfully.



The competition was divided into two rounds:

Round

Round 1

Round 2

Round 1(Race & Soccer): -

Description

Half Race + Half Soccer

Balloon Battle (Elimination Round)



Round-1



Round-2



Winner and Runners

CIRCUIT DEBUGGING:

As part of STEPcone–2026, the technical event “Circuit Debugging” was successfully conducted to enhance students’ practical knowledge and problem-solving skills in electronic circuits. Participants worked in teams of two and competed through three rounds.

The first round tested basic electronics knowledge through a criss-cross puzzle. The second round included technical questions and circuit-based problems requiring logical analysis. The final round involved identifying and correcting faults in a given circuit within a time limit.

The event encouraged teamwork, critical thinking, and hands-on learning. Students participated enthusiastically, and top performers were awarded prizes and certificates.

Number of Participants: 42

Faculty Coordinator: Dr. T.Anil kumar

Conducted by student coordinators:

P.Kavya - 7981775464

Naveen Kumar - 76809 10832

M.Namratha 83285 05499





DecodeX: Conducted on 02/01/2026.

As a part of STEPCONE, the department of Electronics and Communication Engineering has organized a event named DecodeX on 2nd January 2026, and encouraged students to showcase their technical skills. The event effectively achieved its goal of combining fun with technical learning, making it an enriching experience for everyone involved.

Number of participants: 32

Faculty coordinator: DR. T.V.S. Diwakar

Conducted by Student coordinators:

B. Vaasanthi (24341A0405)

V. Tejaswi (23341A04I0)



- This event was conducted successfully.



SENSORS, SENSING AND PROGRAMMING (WORKSHOP): Conducted on 27/02/2025.

- This event was organized as part of STEPSTONE.
- A part of our Entrepreneurship Development cell events, We successfully conducted the "Mind Strategy" fun based event. Round -1 is that each team will be given a fixed amount of virtual money to invest in shares at the given base prices. After the buying phase, final shares will be revealed and teams will calculate their profit and loss. Round-2 is that teams will analyze a company's past stock graph and predict its future price movement.
- Number of Participants: 34

Faculty Coordinator: Mr.B.M.S.Sreenivasa Rao

Conducted by student coordinators:

Tarun :9492103747

Karthika :8074415068

Manish :9392761728

Vindhyavali: 9704842748 This event was conducted successfully.

ENTREPRENEURSHIP DEVELOPMENT CELL PRESENTS

MIND STRATEGY

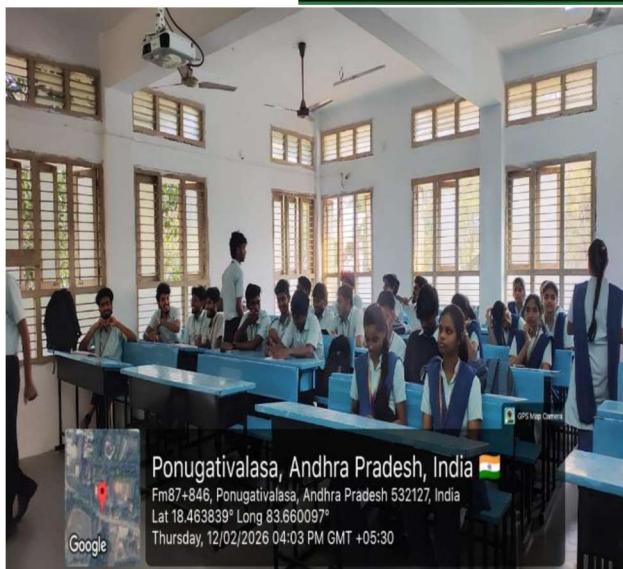
Master the Market with Real-Time
Tools and Expert Support



TIME : 03.00 PM
DATE : THURSDAY, 12 FEBRUARY
VENUE : (ECE BLOCK)

FACULTY CO-ORDINATOR :
DR. B.M.S.SREENIVASARAO

COORDINATORS :
VINDHYA : 9704842748
MANISH : 9392761728
PRAVEEN : 7680091022



Ponugativalasa, Andhra Pradesh, India
Fm87+846, Ponugativalasa, Andhra Pradesh 532127, India
Lat 18.463839° Long 83.660097°
Thursday, 12/02/2026 04:03 PM GMT +05:30



Ponugativalasa, Andhra Pradesh, India
Fm87+846, Ponugativalasa, Andhra Pradesh 532127, India
Lat 18.463905° Long 83.660109°
Thursday, 12/02/2026 04:03 PM GMT +05:30

PANCHATANTRA: Conducted on 02/01/2026.

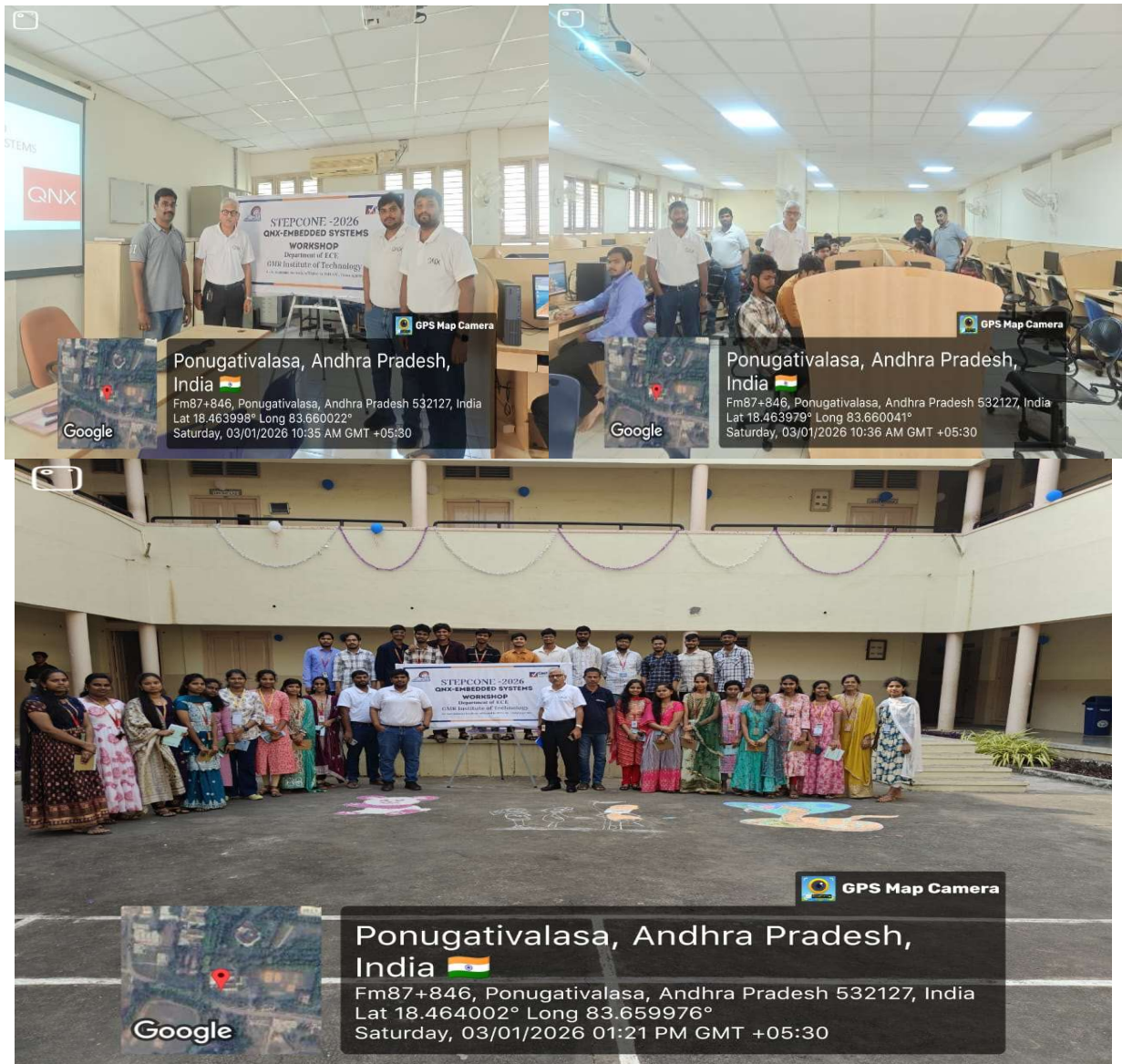
- A part of our Stepcone events, We successfully conducted the "Panchatantra" which was a fun based event. This event aimed to engage participants in an entertainment mood with 5 levels. Participants were divided into small teams of 2 members. Each team was given an image for a period of time and after that questions will asked to them. BGM of songs were played and to identify the movie name,also we have given some items to taste and smell.The final round is totally consists of fun games to gain more points to win.The challenge fostered teamwork, creativity and critical thinking. The event saw enthusiastic participation from students, showcasing their identification skills and creativity. The atmosphere was filled with excitement and collaboration.
- Number of Participants: 44
- Faculty Coordinator: Dr.P.Ravi Kumar
- Conducted by student coordinators:
V.VAISHNAVI - 8019267140
S.SWATHI - 9581092919.
- This event was conducted successfully.





QNX EMBEDDED SYSTEMS WORKSHOP: Conducted on 02/01/2026 & 03/01/2026

- The “QNX-embedded systems workshop” conducted as part of the STEPCONE-2026 was highly informative and beneficial. The workshop aimed to introduce students to the fundamentals of the QNX real-time operating system and its applications in embedded and automotive systems. The session includes theoretical explanations and practical demonstrations, providing participants with valuable industry-oriented knowledge. Such workshops help to bridge the gap between academic learning and industry requirements.
- Team size: Individual
- No of students registered: 40
- No of students participated: 44
- This event was conducted successfully.



PLACEMENTS

Company Name	No. of Students Attended	No. of Students Placed	Package	Date
INFOSYS	2	1	7LPA	16.01.2026
VEM Technologies PVT LTD	50	4	4.00-6.5 LPA	07.01.2026
MyCaptain	88	9	4.05 LPA	20.01.2026
ICICI Bank	73	17	4.5 LPA	06.02.2026
LTI Mind Tree	35	12	4.05 LPA	04.02.2026

3. FACULTY PUBLICATIONS & ACHIEVEMENTS

SEMINARS & WORKSHOPS

- Dr. J.V. Suman attended Workshop titled on “Artificial Intelligence with Machine learning” 5days Starting date: 09-02-2026 ending date:13-02-2026 organized by PSN COLLEGE OF ENGINEERING AND TECHNOLOGY, Tirunelveli, Tamilnadu.
- Dr. T. Geetamma attended FDP online course “Quantum Computing” 30days Starting date: 15-12-2025 Ending date:11-01-2026. organized by JNTUGV.
- Dr. T. Geetamma attended FDP online course “QT-06 Quantum Communication” 30days Starting date: 01-01-2026 Ending date:31-01-2026. organized by MNIT Jaipur under the EICT Academy.

PAPER PUBLICATIONS

- Dr. T. Prabhakar [et al.] Paper entitled on “Cardiovascular disease detection using google wide slice residual network approach by electrocardiogram images”, Journal of Biomedical Signal Processing and Control, Publisher Elsevier, Date of publication 19-01-2026, Volume:117, Issue No:109530, Page No: 109530 ISSN No 1746-8094, Indexing: SCIE, Impact factor:4.9.

- Dr. A. Siva Sangari [et al.] Paper entitled on “Random forest with shap analysis for identifying environmental determinants of air quality in urban regions” Journal of Environmental Protection and Ecology, Publisher Scibulcom Ltd., Date of publication 19-01-2026, Volume:26, Issue No:8, Page No: 2963-2973. ISSN No 1311-5065, Indexing: Scopus, Impact factor: 0.24.
- Ramesh Manikonda, Annapantula Sudhakar, Govindarao Tamminaina Paper entitled on “Isolation enhancement of four port multiple-input multipleoutput antenna for sub-6 GHz 5G communication”, Journal of Bulletin of Electrical Engineering and Informatics, Publisher beei, Date of publication 01-01-2026, Volume:14, Issue No:6, Page No: 4433-4442 ISSN No 2302-9285, Indexing: Scopus, Impact factor: 0.12.

CONFERENCES

- Jami Venkata Suman Paper entitled on “Quantum Machine Learning for High Dimensional Data Classification: A Variational Algorithm Approach International Conference on Intelligent Computing, Information and Control Systems (ICOIICS-2025), date of Conference 19-11-2025 Organized by Nepal College of Information Technology Balkumari, Lalitpur, Nepal.
- Jami Venkata Suman Paper entitled on “Design and Simulation of Four-Stage Fin FET Amplifier, 2025 IEEE 3rd International Symposium on Sustainable Energy, Signal Processing and Cybersecurity date of Conference 06-11-2025 Organized by GIET, Gunupur, Odisha, India
- Omprakash Gurrapu; Jami Venkata Suman Paper entitled on “A Machine Learning Framework for Fault Detection in IoT Enabled Smart Sensor Networks, 2025 Global Conference on Information Technology and Communication Networks (GITCON) date of Conference 29-08-2025, KLS Gogte Institute of Technology (KLS GIT), Belagavi.
- Jami Venkata Suman [et al.] Paper entitled on “Design of Low Power and High-Speed MAC Unit for Digital Signal Processing Applications” Conference 2025 5th International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN), date of Conference 24-11-2025 Organized by Hindustan Institute of Technology, Coimbatore, India.

VISITORS –GUEST FACULTY- GUEST LECTURES

- A Guest Lecture on “Career Opportunities in Software Industries” was conducted on 23.02.2026 by Dr. K. Krishna Kishore, Director, Cerevyn Solutions Pvt. Ltd., with the participation of 35 students, where valuable insights on software industry careers and required skills were shared.

PATENTS

- Dr. N. Chandrasekhar have a titled on Patent “SYSTEM AND METHOD FOR AI-BASED PHYSIOLOGICAL STRESS MONITORING” Patent No: 202641000591, Date of Publication 16-01-2026, The Indian Patent Office.

- Dr. N. Chandrasekhar have a titled on Patent “SYSTEM AND METHOD FOR AI-BASED PHYSIOLOGICAL STRESS MONITORING” Patent No202641000591, Date of Publication 16-01-2026, The Indian Patent Office
- Mr. BMS Sreenivasa Rao have a titled on Patent “AI -DRIVEN INTRUSION DETECTION AN PREVENTION DEVICE FOR REAL-TIME CYBER THREAT ANALYSIS” Patent No: 468894001, Date of Publication 11-12-2025, My self.
- Dr. K Sreelakshmi have a titled on Patent “AI AND ROBOTICS-BASED AUTOMATED QUALITY CONTROL DEVICE FOR INDUSTRIAL PRODUCTION” Patent No:467954-001, Date of Publication 30/07/2025, Indian Patent Office.
- Dr. N. Chandrasekhar have a titled on Patent “AN INTELLIGENT IOT AND DEEP LEARNING–BASED SYSTEM FOR REAL-TIME ENERGY SAVING AND FINANCIAL GROWTH IN SMART EDUCATIONAL CAMPUSES” Patent No: 202641006769, Date of Publication 06-02-2026, The Indian Patent Office.
- Dr. Srilakshmi have a titled on Patent “ARTIFICIAL INTELLIGENCE–DRIVEN SMART PRODUCTION MANAGEMENT SYSTEM FOR DIGITAL AND ELECTRONIC INDUSTRIES” Patent No: 202641011054, Date of Publication 13-02-2026, The Indian Patent Office.
- Dr. N. Prasad have a titled on Patent “Novel Graded Index Metasurface Architecture for Gain Enhancement in 5G Millimeter-Wave Antennas” Patent No: 202641004982, Date of Publication 30-01-2026, The Patent Office Journal , india.

OTHERS

- K. Varalakshmi, a 2nd Year student, secured 2nd Prize in an External 2-Day Tech Fest conducted at Vignan's Institute of Engineering for Women on 11-02-2026.