

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

Tamaram, Makavarapalem, Anakapalli District



DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING

Phronesis

Shaping Engineers. Inspiring Innovators.



HALF YEARLY
NEWSLETTER

ACADEMIC YEAR
2023–2024

VOLUME VIII | ISSUE: 2
DEC 2023 – May 2024

FROM THE DESK OF THE HOD — ECE

Dear Students, Colleagues and Well-Wishers,

It gives me immense pleasure to present the second-semester issue of PHRONESIS, the newsletter of the Department of Electronics and Communication Engineering, covering December 2023 to May 2024. The second half of the academic year witnessed remarkable academic and professional achievements, including participation in hackathons and an exceptional placement record. Our students were placed in leading companies such as Infosys, HCL, Cape Electric, [24]7.ai, Kodnest, and Efitronics. Students also actively participated in seminars, workshops, technical events, and co-curricular activities, gaining valuable practical exposure and skills. I encourage our students to pursue technical excellence, curiosity, resilience, and ethical practice, and to use technology to make meaningful contributions to society.

Dr. E. Govinda — *Head of Department, Electronics & Communication Engineering*



Dr. E. Govinda
*Head of Department
Dept. of ECE*

Ph.D | '20+ Years Experience

EVENTS & CULTURAL FESTS

SANKRANTI SAMBHARALU



Avanthi Institute of Engineering and Technology celebrated **Pre-Sankranti Sambharalu** with vibrant decorations, traditional attire, folk dances, music, and traditional games. The celebrations showcased Andhra Pradesh's rich heritage while fostering **unity, togetherness, and cultural values** among students and faculty.

“Where traditions meet togetherness, celebrations become unforgettable memories.”

Faculty Development & Training

The ECE Department organized a six-day FDP on **“Next-Generation IoT: The Convergence of Designing Robust and Scalable Applications”** from **12–17 March 2024**, with enthusiastic participation from **80 faculty members**. The programme was coordinated by **Dr. E. Govinda, Professor & Head, ECE**, promoting knowledge and skills in emerging IoT technologies.



**Seminar
On**

Women Empowerment And Encouragement

The Women's Club/Women Empowerment Cell of the ECE Department organized a seminar on **“Women Empowerment and Encouragement”** on **9 December 2023** at the AIETM Seminar Hall. The programme inspired women students and faculty to build **self-confidence, leadership skills, career awareness, and self-reliance**, encouraging them to actively pursue academic and professional growth.



Work shop on Robot Operating System

A workshop on **Robot Operating System (ROS)** was conducted from **12–17 February 2024**, featuring **K. H. V. Rajesh** as the resource person. The programme provided participants with practical insights into **robotics, ROS applications, and emerging automation technologies**.



Guest lecture on VLSI



A guest lecture on **VLSI** was organized by the ECE Department, featuring **Dr. D. V. Venkataramana, HOD, VIEW**, as the resource person. The session provided students with valuable insights into **VLSI technologies, applications, and career opportunities**.

Guest lecture on EMWTL



A guest lecture on **EMWTL** was organized by the ECE Department, featuring **N. V. Maheswara Rao, GVPW College**, as the resource person. The session provided students with valuable insights into **electromagnetic waves, transmission lines, and their practical applications**.

Faculty Journal Paper Publications

Name of the Author	Name of the Title	Publication Journal	Volume/ISSN
Dr. Ennam Govinda	A novel architecture implementation of arithmetic and logical unit (ALU) with quantum DOT method	International Journal of Industrial Engineering Journal	ISSN: 0970-2555, Volume: 53, Issue 5, May: 2024
Mr.T.P.Naidu	A novel architecture implementation of arithmetic and logical unit (ALU) with quantum DOT method	International Journal of Industrial Engineering Journal	ISSN: 0970-2555, Volume: 53, Issue 5, May: 2024
Dr. Rayavarapu Prasad Rao	A novel architecture for high speed multiply & accumulates circuit (MAC) using three operand binary adder	Journal of Nonlinear Analysis and optimization	ISSN: 1906-9685, Vol. 15, Issue 1, No.10: 2024

Student Journal Paper Publications

Name of the Student & Semester	Name of the Publisher	Name of the Journal	Volume No. & Issue No.	International/ National
P Sai Bhargavi G Tanmayee Satya B Gangadhar	IJMRR publication	Detection And Classification of Plant Leaf Disease Using Local Directional Pattern and CNN	May 2024 [IJMRR] Volume 14 Issue 3	International
B Prasanthi M Srivani A Renuka	IJMRR publication	A Web – Based Teleoperation System for AMR Navigation Control	May 2024 [IJMRR] Volume 14 Issue 3	International

B Y Namratha Sri G Venu Madhav P Lavanya	IJMRR publication	Blood Cell Counting Using Watershed Algorithm	May 2024 IJMRR Volume 14 Issue 3	International
G Deepthi CH Pavani J Srinivas	IJMRR publication	Building a Social Interactive Robot with Speech Recognition and a Custom Chatbot	May 2024 IJMRR Volume 14 Issue 3	International
R Swetha Sree P Lahari Y Baleswar Reddy	IJMRR publication	Autonomous Environment Monitoring Using IoT for Indoor Data Collection Via AMR	May 2024 IJMRR Volume 14 Issue 3	International
K Geetha Sree L L S Sri Havya Y Maneesha	IJMRR publication	Automated Power Management Designing an Autonomous Mobile Robot Docking System for Seamless Charging	May 2024 IJMRR Volume 14 Issue 3	International

A Remarkable Milestone in Placements



The Placement & Training Cell of AIETM achieved an outstanding milestone in **2023–2024**, marking one of its most successful placement years to date. A total of **57 students** were **successfully placed across 47 companies** that visited the campus for recruitment. The year also witnessed the **highest-ever package in the institution's history**, reflecting the exceptional talent, skills, and employability of AIETM graduates.

Toppers — B. Tech Final Year

Name Of the Student	Obtained CGPA
G Deepthi (ECE IV Year)	8.75
B Prashanthi (ECE IV Year)	8.42

Students Achievements

Scorecard

Name of Candidate
APPALARAJU POLUMURI

Parent's/Guardian's Name
POLUMURI BRAHMAJ

Registration Number
EC23546112095

Date of Birth
18-Jun-2002

Examination Paper
Electronics and Communication Engineering (EC)

GATE Score
360

Number of Candidates Appeared in this paper
45833

Valid up to 31st March 2026

Marks out of 100
30.67

Qualifying Marks*
29.9

General
29.9

EW/SC/NC
26.9

BC/ST/PwD
19.9

*** A candidate is considered qualified if the marks obtained are greater than or equal to the qualifying marks in the test paper.**

Prof. Preetham V. Mohite
Deputy Chairman, GATE 2024
on behalf of NIELITE, for IITs

QR Code

GRADUATE APTITUDE TEST IN ENGINEERING 2024

अनुसंधान योग्यता परीक्षा 2024

ORGANISING INSTITUTION: INDIAN INSTITUTE OF TECHNOLOGY, Kharagpur

SCORE CARD

Name of the Candidate
VELASA SATYANARAYANAMA

Name of the Parent/Guardian
VELASA SATYANARAYANAMA

Registration No.
EC2457618643

Test Paper
Electronics and Communication Engineering (EC)

Date of Examination
February 11, 2024

GATE Score
335

Number of candidates appeared for the test paper
63092

Marks out of 100
24.0

Qualifying Marks
25.0

General
22.5

EW/SC/NC
16.6

BC/ST/PwD
16.6

*** A candidate is considered qualified if the marks obtained are greater than or equal to the qualifying marks in the test paper.**

Prof. Chandra Shekar Venkateshwar
Organizing Chairperson, GATE 2024
On behalf of IIT KGP, for IITs

QR Code

GATE Achievements: Two ECE students participated in GATE, with one qualifying in **GATE 2023** with a score of **360 (AIR 6351)** and another securing **AIR 9923 in GATE 2024**. Their achievements reflect the department's commitment to **academic excellence and higher education**.

Empowering Minds . Advancing Technology . Transforming Lives