



Phronesis

Shaping Engineers. Inspiring Innovators.

ANNUAL NEWSLETTER

ACADEMIC YEAR
2024–2025

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FROM THE DESK OF THE HOD — ECE

Dear Students, Colleagues, and Well-Wishers,

It gives me immense pleasure to address you through this annual newsletter of our beloved institution. The Department of Electronics & Communication Engineering has had an outstanding academic year in 2024–2025, and I am truly proud of every student, faculty member, and staff who has contributed to our collective success.

This year, our department achieved remarkable milestones — from hackathons. Our placement record in ECE has been exceptional, with students placed in top-tier companies including Infosys, ZITHARA.AI, NCR ATLEOS, ACN Infotech, and [24]7.ai Companies.

I firmly believe that the foundation of a great engineer lies not only in technical excellence but also in curiosity, resilience, and a commitment to ethical practice. I encourage each student to push the boundaries of what is possible, to collaborate with peers, and to make meaningful contributions to society through the power of technology.

I extend my heartfelt gratitude to our faculty for their tireless dedication and to our students for making the ECE department a source of immense pride for this institution.

With best wishes,

Dr. E. Govinda

Head of Department — Electronics & Communication Engineering



Dr. E. Govinda

*Head of Department
Dept. of ECE*

Ph.D | 20+ Years Experience

INDUSTRIAL VISIT — DOPPLER WEATHER RADAR SYSTEMS, VISAKHAPATNAM

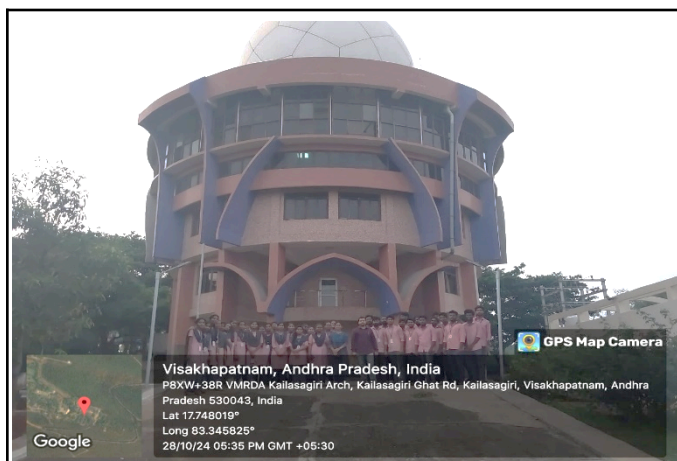
Industrial Visit to Doppler Weather Radar Station

The students of the Department of Electronics & Communication Engineering embarked on an insightful industrial visit on 28th October 2024 to the Doppler Weather Radar Station located at Kailasagiri. The visit provided a valuable opportunity for students to gain practical exposure to advanced meteorological technologies and their real-time applications. The serene hilltop location added to the overall experience, making it both educational and memorable.

During the visit, the officials at the radar station explained the working principles of Doppler Weather Radar systems, including their role in weather forecasting, cyclone detection, and rainfall monitoring. Students were introduced to key concepts such as signal transmission, reflection, and data interpretation. The demonstration of how radar systems track atmospheric changes helped bridge the gap between theoretical knowledge and practical implementation.

The session also highlighted the importance of such technologies in disaster management and early warning systems, particularly in coastal regions like Visakhapatnam. Students actively engaged with the experts, asking questions and gaining deeper insights into the functioning and maintenance of radar equipment.

Overall, the industrial visit was highly enriching and broadened the students' understanding of real-world applications of electronics and communication engineering. It served as a platform to inspire curiosity and encourage future exploration in the field of meteorology and radar technology.



Students with faculty outside the Doppler Weather Radar Station

Visakhapatnam | 28th October 2024



Valuable insights with kumar sir with IVth year ECE - II students at cyclone warning centre

Doppler Weather Radar Station, Kailasagiri

Key Learnings from the Doppler Weather Radar Systems Industrial Visit

Students gained first-hand knowledge of Doppler Weather Radar systems at Kailasagiri, including radar signal transmission and reception mechanisms, real-time weather monitoring and data interpretation techniques, cyclone and rainfall tracking systems, radar-based forecasting models, and the critical role of meteorological technology in disaster management and early warning systems, especially in coastal regions like Visakhapatnam.

Date	Location	Department	Students
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28 th Oct 2025	Doppler Weather Radar Systems, Visakhapatnam	ECE	70 Students
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INDUSTRIAL VISIT —, VISAKHAPATNAM

On 28th October 2024, students of the Department of Electronics & Communication Engineering undertook an enriching industrial visit to the TU 142 Aircraft Museum, located near the scenic Beach Road in Visakhapatnam. The visit offered a unique opportunity for students to explore one of the most iconic aircrafts used by the Indian Navy and gain insights into its technological and operational aspects.

During the visit, students were introduced to the history and significance of the TU-142 aircraft, a long-range maritime reconnaissance and anti-submarine warfare aircraft. The museum provided a detailed walkthrough of the aircraft's structure, including its avionics systems, navigation equipment, communication systems, and weapon control mechanisms. Students were able to closely observe the cockpit layout and understand the functioning of various electronic instruments used during flight operations.

The guided tour also highlighted the role of such aircraft in coastal surveillance, intelligence gathering, and national defence. The integration of electronics and communication systems in ensuring efficient aircraft performance was particularly insightful for the students, helping them relate their academic knowledge to real-world defence applications.

Overall, the industrial visit was highly informative and inspiring, enhancing the students' understanding of aerospace technology and its practical applications. It served as a valuable learning experience and sparked curiosity among students to explore further opportunities in the fields of avionics, defence technology, and communication systems.



Date	Location	Department	Students
28th Oct 2025	TU 142 Aircraft Museum, Visakhapatnam	ECE	70 Students

Key Learnings from the TU 142 Aircraft Museum Industrial Visit

Students gained first-hand knowledge of the TU 142 Aircraft Museum, including aircraft avionics and communication systems, navigation and radar equipment, cockpit instrumentation and control mechanisms, anti-submarine warfare technology, and the role of such long-range maritime patrol aircraft in coastal surveillance and national defense operations, particularly in strategic regions like Visakhapatnam.

ACADEMIC ACHIEVEMENTS

Academic Year 2024–2025 has been a landmark year for intellectual excellence across all departments. Our students have demonstrated an unwavering commitment to academic rigor, claiming top ranks in university examinations and earning prestigious scholarships.

University Rankings & Results

The institute achieved an overall pass percentage of 70% in end-semester examinations — the highest in the past five years. followed closely by Electronics & Communication Engineering at 65%.

Top Performers — B. Tech Final Year

B.Geetha Priya (ECE IV Year) – 8.54 CGPA

G Sai Nandini (ECE IV Year) – 8.47 CGPA

Departmental Pass Rates 2024–25

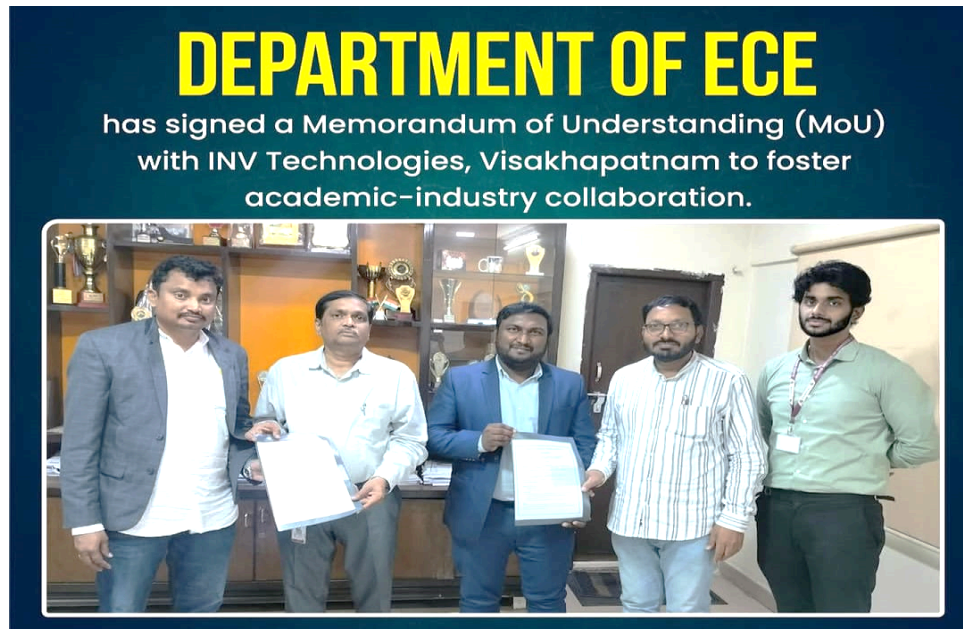
ECE Department pass Rate – 77%

Proud Moments (Research Milestone)

Asst Prof. V. Raju (ECE) and his team were awarded the ISRO Challenge Grant of ₹61k for their ground breaking work for project — a first for the institution.



MoU Signed for Academic-Industry Collaboration



The Department of Electronics & Communication Engineering has successfully signed a Memorandum of Understanding (MoU) with INV Technologies, Visakhapatnam, marking a significant step towards strengthening academic-industry collaboration. This partnership aims to bridge the gap between theoretical learning and practical industry requirements.

The MoU focuses on creating opportunities for students through internships, industrial training, skill development programs, and exposure to real-time projects. It also encourages knowledge exchange through expert lectures, workshops, and collaborative research initiatives between faculty members and industry professionals.

Through this collaboration, students will gain valuable industry insights, hands-on experience, and enhanced employability skills, preparing them to meet the evolving demands of the technology sector. The initiative reflects the department's commitment to fostering innovation, practical learning, and career-oriented education.

Workshop on Arduino Programming – Empowering Innovation

Empowering Innovation

one-week workshop on Arduino Programming for
III BTech ECE students, conducted by APSSDC,
Enhancing hands-on learning and technical expertise



A one-week workshop on Arduino Programming was successfully conducted for III B.Tech Electronics & Communication Engineering students by Andhra Pradesh State Skill Development Corporation. The workshop aimed at empowering students with practical knowledge and fostering innovation through hands-on learning experiences.

Throughout the session, students were introduced to the fundamentals of Arduino, including microcontroller basics, circuit design, and programming techniques. They actively engaged in building and testing real-time projects using sensors, actuators, and embedded systems, which significantly enhanced their technical understanding and problem-solving skills.

The workshop emphasized experiential learning, enabling students to bridge the gap between theoretical concepts and real-world applications. Trainers from APSSDC provided continuous guidance, ensuring that participants developed confidence in designing and implementing their own embedded solutions.

Overall, the program proved to be highly beneficial, equipping students with essential skills in Arduino programming and inspiring them to explore further innovations in the field of electronics and embedded systems.



Three-Day Faculty Development Workshop on Microcontroller Programming



A three-day Faculty Development Workshop on “Microcontroller Programming using Keil μ Vision” was successfully conducted at the Department of Electronics & Communication Engineering in AIETM. The workshop aimed at enhancing the technical expertise of faculty members through hands-on training and practical exposure to embedded system design.

The sessions focused on the fundamentals of microcontrollers, embedded C programming, and the use of Keil μ Vision software for coding, simulation, and debugging. Participants were actively involved in hands-on exercises, enabling them to design, implement, and test real-time applications using microcontroller kits.

The workshop also emphasized modern teaching methodologies and practical approaches to effectively deliver embedded systems concepts to students. Experts guided the faculty through various real-time applications, bridging the gap between theoretical knowledge and industry practices.

Overall, the workshop proved to be highly beneficial, equipping faculty members with advanced technical skills and innovative teaching strategies, thereby strengthening the quality of education and fostering a practical learning environment for students.

EVENTS & CULTURAL FESTS

The academic year 2024–2025 was alive with a spectacular line up of events that celebrated the spirit, creativity, and innovation of our students. From technical symposia to cultural extravaganzas, each event left an indelible mark on the campus memory.

SANKRANTI SAMBHARALU



Avanthi Institute of Engineering and Technology came alive with festive spirit as **Pre-Sankranti Sambharalu** were celebrated with great enthusiasm and cultural pride. The campus was beautifully decorated with vibrant rangolis, flowers, sugarcane, and traditional decorations, creating a joyful festive atmosphere.

Students and faculty members, dressed in traditional attire, actively participated in cultural performances, folk dances, music, and various traditional games. The celebrations reflected the rich heritage of Andhra Pradesh while promoting unity, teamwork, and cultural values among the students.

The event concluded on a joyful note, leaving everyone with cherished memories and reinforcing the institution's commitment to preserving Indian traditions and fostering a vibrant campus culture. The **Pre-Sankranti Sambharalu** were truly a memorable celebration of togetherness, tradition, and happiness.

SYNERGY 2K25



SYNERGY 2025 was conducted over two days with special guests attending the events. On Day 1, the Inaugural Function was held on Friday, 31st January 2025. Several distinguished guests participated as Chief Guest, Guest of Honour, and speakers, and they motivated students with their valuable words. On Day 2, the Valedictory Function was held on Saturday, 01st February 2025. More respected guests attended the closing ceremony, shared their experiences, and appreciated the successful organization of SYNERGY 2025. The presence of these guests made the event more memorable and inspiring for all participants.

Seminar with an Expert talks



EXPERT Talk on 5G and Beyond!

An insightful session by **Dr. A Krishna Chaitanya**, Professor, Dept. of ECE, NIT Tadepalligudem, as he shares valuable knowledge on the future of wireless communication.



An insightful expert talk on “5G and Beyond” was conducted as part of the technical sessions, featuring Dr. A Krishna Chaitanya, Professor in the Department of Electronics & Communication Engineering at National Institute of Technology Andhra Pradesh. The session focused on the evolving landscape of wireless communication and the future prospects of next-generation technologies.

During the talk, Dr. Chaitanya elaborated on the fundamentals of 5G technology, its architecture, and its advantages over previous generations in terms of speed, latency, and connectivity. He also provided insights into emerging trends beyond 5G, including advancements in IoT, smart infrastructure, and high-speed data communication systems.

The session was highly interactive, with students actively engaging in discussions and clarifying their queries related to modern communication technologies. The expert shared real-world applications and research opportunities in the field, motivating students to explore careers in wireless communication and innovation-driven domains.

Overall, the talk proved to be highly informative and inspiring, enhancing students’ understanding of cutting-edge communication technologies and their impact on future digital transformation.



On the occasion of College Day, ECE students actively participated in the cultural feast by presenting a special performance of devotional songs and traditional dance. Dressed

in colourful traditional attire, the students showcased their talent and devotion on stage. Their performance was graceful, energetic, and well appreciated by the audience, making the event memorable.

SPORTS

Sports at AIETM are not just extracurricular — they are a way of life. The year 2024–2025 witnessed our athletes shine on regional, state, and national stages, upholding the institution's tradition of all-round excellence.

An ECE studentt B Match in the Avanthi outstanding XI to a thrilling

FACULTY

Our faculty continue AIETM academic year brought our dedicated



.siva sai was awarded *Man of the Cricket Carnival* for his performance, leading *Underrated* 2-wicket victory

NEWS & ACHIEVEMENTS

to be the driving force behind and research excellence. This remarkable milestones for many of professors and lecturers.

Faculty Member	Department	Achievement
PARISAM SAIBABU	ECE	(UGC NET) Certificate for the Admission to Ph.D.
Varada Raju	ECE	GATE Qualified

Faculty Development & Training

ECE DEPT organized Faculty Development Programme (FDPs) this year. Total of 70 faculty members participated, covering Emerging Technologies in AI.



PLACEMENTS

The Placement & Training Cell of AIETM recorded its most successful year ever in 2024–2025. With a placement percentage of 60% and the highest-ever package offered in the institution's history, the year was a testament to the employability of AIETM graduates.

WISHING OUR IV ECE 2021-25 BATCH ALL THE SUCCESS AND GROWTH AHEAD. YOUR JOURNEY WITH US MAY END, BUT YOUR IMPACT WILL INSPIRE FOR YEARS TO COME.



Placement Statistics 2024–25

Metric	2024-25	2023-24
Total Students Placed	64	55

Alumni Achievers 2024–25

The AIETM Alumni Association continues to be a vibrant network of over so many graduates spread across 42 countries. This year, we celebrate alumni who have made extraordinary contributions in their respective fields.

Top Recruiting Companies

This year saw the participation of 37 companies across core engineering, IT, and management sectors, including Infosys, ZITHARA.AI, NCR ATLEOS, ACN Infotech, and [24]7.

Phronesis

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, MAKAVARAPALEM

Academic Year 2024 – 2025

Empowering Minds • Advancing Technology • Transforming Lives
