



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN

TECHINNOVATION

NEWS LETTER

JAN - MAR, 2026

DEPT. OF ECE

VOLUME NO.: 39

ECE Department

Electronics and Communication engineering is a discipline which uses the scientific knowledge of the behaviour and effects of electrons to develop components, devices, systems, or equipment that uses electricity as part of its driving force. This engineering field encompasses many subfields like signal processing, semiconductor chip design, telecommunication, data communication networks, satellite and radar link setup, embedded systems, robotics and many more.

Electronics and Communication engineering department transforms our day-to-day lives through a multitude of innovative technologies and products. The ECE department is intended to expose students to the unlimited opportunities for innovation in this exciting field, and to the methodologies and tools used by ECE engineers for the exploration and design of new technologies and products.

The applications of Electronics & Communication engineering is an endless list with a lot of scope in each and every subfield. It is a versatile branch that opens path for core electronics & communication jobs. Besides the numerous jobs in core field, the IT sector also welcomes an ECE engineer with open arms.

As compared to other branches, there are more interdisciplinary specializations in higher studies for ECE students like Embedded Systems, VLSI, Wireless communication, Signal Processing. Therefore, ECE students have a wider choice.

Department of Electronics and Communication Engineering was started since the inception of Vignan's Institute of Management and Technology for Women during 2008 with an initial intake of 90. The strength was enhanced to 120 during 2010. The Department had added Post graduate programme in VLSI during the year 2011 and Embedded Systems during 2014 with an intake of 18 each.

The Department has state-of-art laboratories equipped with advanced and well-maintained equipment, continuously updated application software packages, more than adequate computing systems with 24x7, 40 MBPS internet facility. All faculties are having a minimum teaching experience of 4 years. Seminars, Guest Lectures, Workshops, and Technical Symposia are conducted in the department to keep faculty and students updated with the latest developments in various technologies.

The Department is accredited by the National Board of Accreditation (NBA) has been accredited by National Board of Accreditation (NBA) successively two times i.e. in 2019 and 2022, which is valid up to 2025.

ECE students of the institution are well placed in different companies with different packages.



Department Vision

To transform the students into technologically competent professionals, with abilities to address the societal challenges of the time through innovative technical practices in electronics & communication engineering.

Department Mission

- M1: To foster inquisitive-driven advanced knowledge building among students for reinforcing the domain knowledge, develop capabilities, skills and solve complex engineering problems.
- M2: To prepare industry-ready graduates for global Electronics as well as communication-based engineering companies by conducting training programs, workshops and industry visits.
- M3: To build entrepreneurship and leadership qualities, research aptitude among students for the contribution of economic and technological development in cutting edge technologies in the national and as well as in the global arena.

Program Educational Objectives:

- PEO1: To develop the student's ability on technical concepts to design, simulate, and synthesize various electronic and communication circuits & systems for their research advancements.
- PEO2: To impart analytical skills and to prepare the students to excel in applying state-of-the-art hardware and software tools to solve complex engineering problems for R&D, Industry, and societal requirements.
- PEO3: To prepare the students to work in teams, take independent decisions, and integrate engineering issues for a successful career in a multi-disciplinary environment.
- PEO4: To promote entrepreneurship among the students to become successful entrepreneurs with professional ethics.

Program Specific Outcomes:

- A graduate of the Electronics and Communication Engineering Program will be able to
- PSO1: **Professional Skills Ability:** Identify, design electronics & communication circuits and conduct experiments with electronics & communication systems, analyze and interpret data, formulate and solve electronics & communication engineering problems.
 - PSO2: **Industrial Skills Ability:** Design digital and analog systems, algorithms, fire ware, modern engineering tools, software, etc. as per needs and specifications and work in laboratory and multidisciplinary tasks.
 - PSO3: **Ethical and Social Responsibility:** Communicate effectively in both verbal and written form, will have knowledge of professional and ethical responsibilities and will show an understanding of the impact of engineering solutions on the society, and also will be aware of contemporary issues.

EDITORIAL BOARD

- Mr. T. PULLAIAH, HOD, ECE.
- Mrs. D. Shirisha, Assistant Professor, ECE.
- Dr. V. Suzan Shalini, Assistant Professor, BS&H.
- Bonala Sohini IV-II, ECE (Student)
- A.Vasanthi III-II, ECE (Student)
- A. Varshika II-II, ECE (Student)
- A. Akhila II-II, ECE (Student)



HOD'S MESSAGE

Dr. T. Pullaiah,
Associate Professor &
HEAD OF THE DEPARTEMENT,
DEPARTMENT OF ELECTRONICS
AND COMMUNICATION
ENGINEERING.

It gives me immense pleasure to present the Oct–Dec 2025 issue of our department newsletter, TECHINNOVATION. This newsletter reflects the dedication and achievements of our students and faculty, celebrating academic excellence, innovation, and creativity. I congratulate everyone involved in maintaining the high standards of the department and wish our students continued success in their professional journey.

Department Events

**Workshop On
Remotely Operate Vehicles-Drones”
From 09 February 2026 to 13 February 2026**



DST NM-ICPS TIHAN Foundation
Skill Development Program
on
Remotely operated vehicles-Drones
Dates: 09 February 2026 to 13 February 2026






- Organized by: Indian Institute of Information Technology Design and Manufacturing Kurnool, AP.
- Sanctioned by: DST NM-ICPS TIHAN Foundation, Indian Institute of Technology Hyderabad.
- Venue: Vignan's Institute of Management & Technology for Women, Hyderabad

Program Schedule		Speakers
Day / Time	09:00-13:00 Hours	14:00-18:00 Hours
Day-1	Inauguration-Introduction of Drone Technology-Introduction to Drones, History, Type of Drones, Spine parts of Drones, Applications, and Flying etiquette, Regulations of DGCA	Hardware Knowledge and Practice - Detailed Hands-on Drones with each spare part (Assembling and Flying)
Day-2	Basic principles of flight- Principles of Drone, Working Principle of Drone and Fine Pattern Serrouli's principles, Types of Drones based on the number of Propellers, Propeller Forces, Working Principle of Quadcopter, Forces and Moments Acting on a Drone, Do's & Don'ts	At Applications/Case studies- Hands-on experience, Hardware Knowledge and Practice - Detailed hands-on Drones with each spare parts (Assembling and Flying)
Day-3	Building UAV, Propellers-Payload types- Detailed Specification of Drones, discussion of all spare parts of the drone	Calibration of the Drones with Mission planner and testing with hands-on
Day-4	Guidance Navigation and Control (GNC)-Explanation of Global Navigation Satellite Systems, Positioning and Navigation, UAS systems System validation and testing- Examination	Flight simulation, Formulation of sating and development - Hands-on experience
Day-5	Visit of Laboratories at IIT Hyderabad	Demonstration of UAV at TIHAN



Prof.P.Rajalakshmi
Professor, Director - NMICPS TIHAN Foundation, IIT Hyderabad.

Dr.Padma Boila
Scientist S Research Center Inmact(RCI), DRDO, Hyderabad.

Dr.K.Krishna Naik
Associate Professor IIITDM Kurnool.

Dr.M.Naresh Babu
Associate Professor IIITDM Kurnool.

Dr.Nagaraju K
Assistant Professor IIITDM Kurnool.

Dr.Ravikumar Mandava
Assistant Professor IIITDM Kurnool.

Dr.Putha Kishore
Assistant Professor IIITDM Kurnool.

The Department of Electronics and Communication Engineering, Indian Institute of Information Technology Design and Manufacturing Kurnool (IIITDM Kurnool), has organized a DST NM-ICPS TIHAN Foundation sponsored Skill Development Program on “Remotely Operated Vehicles – Drones” from 09 February 2026 to 13 February 2026 successfully. The program was primarily intended to bring awareness of drone technology among students belonging to the Scheduled Tribe (ST) community and to uplift their technical skills through structured training and hands-on exposure.

The entire SDP was conducted as an offline program at Vignan's Institute of Management and Technology for Women. The program was sanctioned in the name of Dr. K. Krishna Naik, Associate Professor, Department of ECE, IIITDM Kurnool, as the Program Coordinator. An amount of Rs. 1,90,000/- (Rupees One Lakh Ninety Thousand only) was sanctioned for conducting the program as per the approved budget heads

The Inaugural Program was held on 09 February 2026 at 09:30 hrs onwards at the host institution. The objectives, structure, and expected outcomes of the Skill Development Program were explained to the participants during the inaugural session, emphasizing inclusive technological empowerment and skill enhancement in drone and autonomous navigation technologies.



Dr.T. Pullaiah, HOD-ECE providing welcome address of the Inaugural function



Dr.G.Apparao Naidu, Principal addressing the inaugural function

Workshop On “Hands-on Training Program on Industrial IoT and Embedded Systems” on 9th February 2026



VIGNAN'S INSTITUTE OF MANAGEMENT AND TECHNOLOGY FOR WOMEN
An Autonomous Institution
Sponsored by Lavu Educational Society, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad.
Kondapur (V), Ghatkesar (M), Medchal - Malkajgiri (D) - 501 301 Phone: +91 96529 10002/3

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING
IS ORGANISING
A ONE DAY WORKSHOP
ON
**Hands on Training Program
on Industrial IoT and Embedded Systems**

Speakers:
1. Mr. P Nikhil Chary 2. Mr. M Obul Reddy
Trainers in Electrical and Electronics Department at NSIC

In association with:
NSIC TECHNICAL SERVICE CENTRE
Kamlnagar, EDIL PO, Hyderabad 500062, Telangana

ON 09th Feb, 2026 Co-Ordinators: **Ms. G. Susmitha** & **Mr. E. Nagaraju**
Assistant Professor Assistant Professor

A One-Day Workshop on “Hands-on Training Program on Industrial IoT and Embedded Systems” was successfully conducted on 9th February 2026, in association with the NSIC Technical Service Centre, Hyderabad. The workshop aimed to provide practical exposure to embedded system design and Industrial Internet of Things (IIOT), which form the backbone of modern automation and smart manufacturing.

With industries rapidly moving towards automation and smart connected devices, there is a growing demand for engineers skilled in embedded programming, sensor interfacing, and industrial communication protocols. This workshop was organised to bridge the gap between theoretical understanding and real-world industrial implementation of IoT and embedded technologies.




राष्ट्रीय लघु उद्योग निगम-तकनीकी सेवा केन्द्र
THE NATIONAL SMALL INDUSTRIES CORPORATION LTD.
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E.C.I.L X Road, Kushaiguda, Hyderabad - 500062, Telangana, India

क्रमांक / S.No. 245912 दिनांक / Date: 08/04/2026

प्रमाणित किया जाता है कि श्री / सुश्री / This is to certify that Mr. / Ms. Poovannal Shushmitha
सुपुत्र / सुपुत्री श्री / Son/Daughter of Mr. P Sunil Abraham

ने सफलतापूर्वक पाठ्यक्रम प्रशिक्षण पूरा किया है / has successfully completed training in the course of
Industrial IoT and Embedded Systems

दिनांक से / from 09/02/2026 तक / to 09/02/2026 and secured A1

और निष्पादन मूल्यांकन के दौरान श्रेणी प्राप्त किया / grade during performance evaluation.

उपरोक्त समयावधि के दौरान प्रशिक्षार्थी का व्यवहार अच्छा पाया गया।
During the above period, the trainee's conduct was found Good

प्रशिक्षण प्रमुख Head of Training को-प्रमुख Head of Centre

यह प्रमाण पत्र श्रेष्ठता प्राप्त होने की शर्तों के साथ ही मान्य होगा / This Certificate shall be valid only with affixed hologram

Internship Program

20 students' III year-II Sem of Department of Electronics and Communication Engineering, underwent an internship training program on “Essential Fundamentals of IoT” at the NSIC Technical Services Centre, E.C.I.L X Road, Kushaiguda, Hyderabad, from 9th February 2026 to 18th February 2026. This report presents an account of learning experience during the 60-hour training program sponsored under the RAMP Scheme, Ministry of MSME.



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E.C.I.L X Road, Kushaiguda, Hyderabad - 500062, Telangana, India

क्रमांक / S.No. 241784 दिनांक / Date: 28/02/2026

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सुपुत्र / सुपुत्री श्री / Son/Daughter of Mr. P Sunil Abraham

ने सफलतापूर्वक पाठ्यक्रम प्रशिक्षण पूरा किया है / has successfully completed training in the course of
Essential Fundamentals of IOT(60Hrs) (Sponsored under RAMP Scheme - Ministry of MSME)

दिनांक से / from 09/02/2026 तक / to 18/02/2026 and secured B2

और निष्पादन मूल्यांकन के दौरान श्रेणी प्राप्त किया / grade during performance evaluation.

उपरोक्त समयावधि के दौरान प्रशिक्षार्थी का व्यवहार अच्छा पाया गया।
During the above period, the trainee's conduct was found Good

प्रशिक्षण प्रमुख Head of Training को-प्रमुख Head of Centre

यह प्रमाण पत्र श्रेष्ठता प्राप्त होने की शर्तों के साथ ही मान्य होगा / This Certificate shall be valid only with affixed hologram

INDUSTRIAL VISIT TO CII MSME

On 11th March 2026

The Department of Electronics and Communication Engineering (ECE), VMTW organized an Industrial Visit for the II Year ECE students to the CII MSME Industrial Exhibition held at Mint Township, Cherlapally, Secunderabad on 11th March 2026. The visit was arranged with the objective of exposing students to real-time industrial practices and the latest technological developments in the MSME sector.

The students were accompanied by T. Manisha and P. Srinivas Murthy Lab Technician, who guided the students throughout the visit and ensured their active participation at the exhibition.

The exhibition featured a wide range of stalls put up by

various MSMEs and companies, including TMTL, Pinnacle Generators, VR Engineering Works, Scoria IT Pvt. Ltd., Alleyr Ventures Pvt. Ltd. and Power More Solar, among others, showcasing their latest products, technologies, and services in the fields of electronics, engineering, IT, and renewable energy.

Students actively interacted with company representatives at the various stalls, gaining first-hand insight into product design, manufacturing processes, and emerging technologies. The representatives explained their products and answered the students' queries, giving them a valuable opportunity to relate classroom concepts with real industrial applications.

The industrial visit proved to be highly informative and beneficial for the students, helping bridge the gap between theoretical knowledge and practical industry exposure, while also creating awareness about entrepreneurship and career opportunities in the MSME sector.

Overall, the visit was well organized and successfully achieved its objective, leaving the students motivated and enriched with practical industrial knowledge.



College Events “SANKRANTHI SAMBARALU” @ VMTW On 10TH January 2026

The Management, staff and students of VMTW celebrated “Sankranti Sambaralu” in the college premises on 10th January 2026.

The Department of Electronics and Communication Engineering (ECE) at Vignan’s Mahila Technical and Women’s College (VMTW) celebrated the festival of Sankranti with great enthusiasm and cultural spirit on the college premises. The event aimed to promote traditional values, cultural awareness, and unity among faculty and students.

The celebration venue was beautifully decorated with colorful rangoli (muggulu), flowers, and traditional elements that reflected the essence of the harvest festival. A special Sankranti backdrop was arranged, showcasing rural themes such as decorated pots, harvest symbols, and festive artwork. The presence of sugarcane sticks, banana leaves, and traditional designs added authenticity to the festive atmosphere.

Faculty members of the ECE department actively participated in the celebrations, dressed in traditional attire. Women wore elegant sarees, while men were seen in traditional dhoti and kurta, highlighting the cultural significance of the occasion. The gathering created a joyful and vibrant environment across the department.

One of the main attractions of the event was the beautifully designed rangoli patterns displayed at the venue. These colorful designs symbolized prosperity and happiness. Decorative cutouts representing traditional village life and Sankranti customs enhanced the visual appeal.

The celebration also included informal interactions among faculty members, fostering a sense of togetherness and community bonding. The event served as a reminder of the importance of preserving cultural heritage while balancing modern education.

Overall, the Sankranti celebration at ECE, VMTW was a grand success. It not only brought festive joy but also strengthened relationships among staff members and promoted cultural unity within the department.



“Rangde – Holi Celebrations” Date: 02nd March 2026

Vignan's Institute of Management and Technology for Women celebrated the festival of colours with great enthusiasm through “Rangde – Holi Celebrations,” held on the college campus on 2nd March 2026. The event was organised to bring students and staff together in a spirit of joy, unity, and cultural festivity, marking the arrival of spring and the traditional Holi festival.

A traditional game in which participants attempted to break a hanging pot (utti) suspended overhead, guided by cheers and directions from fellow students. The game added an element of fun, laughter, and friendly competition to the celebrations.

Rani Dance: A special dance performance that added colour and energy to the event, with students showcasing their talent and enthusiasm through vibrant choreography, further lifting the festive spirit of the celebration.

INTERNATIONAL WOMEN’S DAY” @ VMTW On 8th March 2026

The Management, staff and students of VMTW celebrated “International Women’s Day” with great enthusiasm at both the college and department level. Although International Women’s Day falls on 8th March, the celebrations were organized on 8th March 2026, bringing together faculty and students to honour and celebrate womanhood.

The Department of Electronics and Communication Engineering (ECE) also celebrated International Women's Day within the department, with the event being enthusiastically organised by the students. The students took the initiative to plan and coordinate the celebrations, decorating the venue and arranging small activities to honour the women faculty and their fellow students. Their effort reflected a genuine sense of respect and appreciation towards women, and added a warm, department-level touch to the celebrations held at the college.

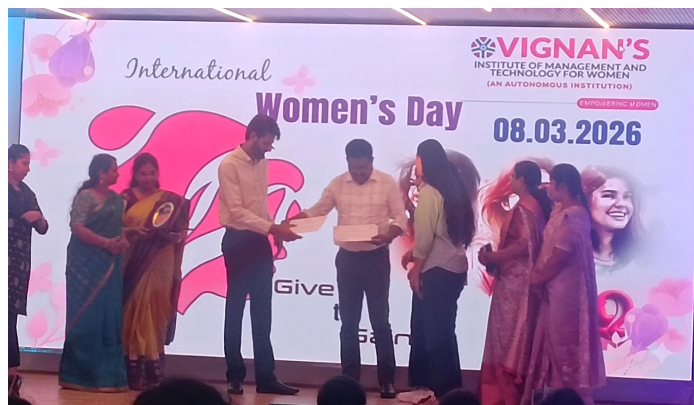
Placements

The event was held in the college seminar hall, which was filled with enthusiastic faculty members and students. The celebration carried the theme “Empowering Women”, reflecting the institution’s continued commitment to the growth, recognition, and empowerment of women in academics and beyond.

As part of the celebrations, sports events for the faculty were specially organized, encouraging women staff members to actively participate, unwind, and enjoy a spirited break from their routine academic responsibilities. The friendly games fostered enthusiasm, team spirit, and a strong sense of camaraderie among the faculty across departments.

The dignitaries on the occasion felicitated the faculty members with mementos and certificates in recognition of their contribution and participation. Principal Sir and CEO Sri B. Sravan Sir graced the occasion and personally distributed the mementos to the faculty members, appreciating their dedication and encouraging their continued participation in such initiatives.

Overall, the International Women’s Day celebration at VMTW was a grand success. It not only honoured the achievements and contributions of women but also strengthened the bond among faculty members, promoting a spirit of unity, encouragement, and empowerment within the institution.



Academic Toppers

VIGNAN'S
INSTITUTE OF MANAGEMENT AND
TECHNOLOGY FOR WOMEN
(AN AUTONOMOUS INSTITUTION)

III B.Tech I Semester
DEPARTMENT OF ECE TOPPERS

Academic Year 2025-26

1 st 23UP1A0413 Gadaboina Shwani SGPA 8.6	2 nd 23UP1A0414 Gajula Srinivas Jayathi SGPA 8.5
3 rd 23UP1A0422 Korvuri Shwani SGPA 8.4	3 rd 24UPSA0429 Modali Harshitha SGPA 8.6
	3 rd 24UPSA0404 Bhuthuri Hema SGPA 8.4
	3 rd 24UPSA0406 Dreddadi Keerthi SGPA 8.4

VIGNAN'S
INSTITUTE OF MANAGEMENT AND
TECHNOLOGY FOR WOMEN
(AN AUTONOMOUS INSTITUTION)

IV B.Tech I Semester
DEPARTMENT OF ECE TOPPERS

Academic Year 2025-26

1 st 22UP1A0428 Kakula Nishitha SGPA 8.4	2 nd 22UP1A0438 Pegidi Sanyasi SGPA 8.5	2 nd 23UPSA0406 Dh. Srinidhi SGPA 8.5	3 rd 22UP1A0409 Bansala Sahini SGPA 8.75	3 rd 22UP1A0419 Gaddam Dharaani SGPA 8.75
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Program Outcomes (Adapted from NBA)

Engineering Graduates will be able to:

PO1 : Engineering Knowledge: Apply knowledge of mathematics, natural science, computing, engineering fundamentals and an engineering specialization as specified in WK1 to WK4 respectively to develop to the solution of complex engineering problems.

PO2 : Problem Analysis: Identify, formulate, review research literature and analyze complex engineering problems reaching substantiated conclusions with consideration for sustainable development. (WK1 to Wk4)

PO3 : Design/Development of Solutions: Design creative solutions for complex engineering problems and design/develop systems/components/processes to meet identified needs with consideration for the public health and safety, whole-life cost, net zero carbon, culture, society and environment as required. (WK5)

PO4 : Conduct Investigations of Complex Problems: Conduct investigations of complex engineering problems using research-based knowledge including design of experiments, modelling, analysis & interpretation of data to provide valid conclusions. (Wk8)

PO5 : Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modelling recognizing their limitations to solve complex engineering problems. (WK2 and Wk6)

PO6 : The Engineer and The World: Analyze and evaluate societal and environmental aspects while solving complex engineering problems for its impact on sustainability with reference to economy, health, safety, legal framework, culture and environment. (WK1, WK5, and Wk7)

PO7 : Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws. (Wk9)

PO8 : Individual and Collaborative Team work: Function effectively as an individual, and as a member or leader in diverse/multi-disciplinary teams.

PO9 : Communication: Communicate effectively and inclusively within the engineering community and society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations considering cultural, language, and learning differences.

PO10 : Project Management and Finance: Apply knowledge and understanding of engineering management principles and economic decision-making and apply these to one’s own work, as a member and leader in a team, and to manage projects and in multidisciplinary environments.

PO11 : Life-Long Learning: Recognize the need for, and have the preparation and ability for
i) independent and life-long learning ii) adaptability to new and emerging technologies and iii) critical thinking in the broadest context of technological change. (Wk8)