



MANAKULA VINAYAGAR INSTITUTE OF TECHNOLOGY



Affiliated to Pondicherry University, Approved By AICTE,
Kalitheerthalkuppam, Puducherry-605107

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING



ECE NEWSLETTER

Academic Year : (July 2025-December 2025) Odd Sem

PRINCIPAL MESSAGE



My heartiest welcome to all the young and budding Engineers who have joined in Manakula Vinayagar Institute of Technology (MVIT). With the guidance of our respected Chairman and Vice Chairman, with the help of highly qualified and dedicated faculty team, we will be moulding the students to the required shape which will make them industry-ready, employable and well disciplined. The Manakula Vinayagar Institute of Technology will strive hard to provide pleasant ambience and conducive atmosphere for moulding the young minds to scale greater heights in their chosen field of study. In our college we give top priority to academic excellence, innovation, and discipline. An effective Training and Placement Cell is in place to provide placement to all our students. Focus is given to Extra Curricular and Co-Curricular activities through various clubs and societies instituted to augment the students skills and knowledge. A state-of-the-art and up-to-date infrastructure facilities and good learning atmosphere are the hallmarks of our Institution. I hope all the students admitted in this Institution will enjoy their study in the campus. Let us all come together, build together, and achieve together with the blessings of Almighty for Tomorrow's India.

ABOUT THE DEPARTMENT

The Department was established in the year 2008 with a key focus to advance the skills of modern youth in the field of Electronics and Communication Engineering. Adequate emphasis is given to electronic design using innovative teaching methodologies. Emphasis is also given to the digital processing of information for efficient communication. Utmost care is taken in the perspective of imparting more practical knowledge to the student's community in the field of Electronics and Communication.

An expert team from National Board of Accreditation conducted on-site evaluation of the program from 24th to 26th August 2018; ECE department has been accredited for 3 years.

VISION

To emerge as a center of excellence nurturing innovative engineers in Electronics and Communication technologies who can address global challenges through multidisciplinary approaches, sustainable solutions, and ethical leadership

MISSION

DM1. Impart Quality Education in the field of Electronics and Communication Engineering through experiential learning, project-based curricula, and digital pedagogy to create industry-ready professionals.

DM2. Foster research temperament by establishing state-of-the-art laboratories and innovation centers focusing on emerging technologies.

DM3. Enhance industry collaboration to facilitate internships, live projects, and technology transfer initiatives while promoting entrepreneurial mindset among students.

DM4. Develop socially conscious engineers capable of applying Electronics and Communication technologies for sustainable development and societal welfare.

PROGRAMME EDUCATIONAL OUTCOMES (PEOs)

Graduates of Electronics and Communication Engineering will

PEO1: Professional Excellence: Graduates will be employed with professional competency in Electronics and Communication, demonstrating expertise in emerging technologies.

PEO2: Research and Innovation: Alumni will excel in research initiatives and entrepreneurial ventures and lead in technological innovation in emerging Electronics and Communication domains.

PEO3: Sustainability: Develop and implement sustainable solutions in Electronics and Communication Engineering addressing global challenges while ensuring environmental responsibility and societal welfare

PEO4: Ethics and Leadership: Graduates will demonstrate ethical leadership in engineering teams while pursuing professional growth and contributing to the field through mentorship.

PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO1: Products Development: Use modern tools to design subsystems for simple applications in Embedded Systems and VLSI.

PSO2: Design Thinking: Apply engineering concepts to find solutions in the fields of Communications, Signal/Image Processing.

PROGRAMME OUTCOMES (Pos)

PO1: Engineering knowledge : Apply the knowledge of mathematics , science , engineering fundamentals , and an engineering specialization to the solution of complex engineering problems.

PO2: Problem analysis : Identify , formulate , review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design/development of solutions : Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct investigations of complex problems : Use research -based knowledge and research methods including design of experiments , analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Engineering Tool Usage: Create, select and apply appropriate techniques, resources and modern engineering & IT tools, including prediction and modeling 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)

DEPARTMENT ACTIVITIES:

1. Department of ECE conducted BOS on 24.07.2025



2. Department of ECE organized a Career Guidance Program titled "Cracking GATE, TOFEL, & Other Milestones" for IV year ECE students on 12.07.2025 by Resource Person: Mr. Charles, Technical Head, Aerobiosys, Puducherry.

3. Department of ECE organized a Career Guidance session by V. Founder of Code Builders, delivered a session to IIIrd year ECE students, sharing insights on "programming education, career planning, and skill development" on 22.08,2025.



4. Dept of ECE organized a Guest Lecture titled "Getting Started with Robotics" for III Year ECE students on 27.06.2025 by Mr.R. Mohammed Fadil, Managing Partner ADROIT Technovations



5. Dept of ECE organized a Guest Lecture Dr. Baig Mansur Ibrahim, Assistant Professor, Department of Management Studies, MVIT, conducted a session titled "Money Matters: Financial Literacy for Young Professionals" for the III Year ECE students on 14.10.2025.



6. ECE department conducted Quality Improvement Program on "Quality and Reliability in Next-Gen Embedded IoT Architectures" by the guest speaker Dr.S.Sivasakthiselvan, Assistant Professor, Department of Computing Technologies, SRMIST, Chennai for our II year ECE students on 23rd August 2025.

7. Department of ECE organizes Language and Communication Skills training for Final year ECE students titled "VOICE YOUR IDEAS" by Mr. Jaikishor.J, Skill Consultant, COach & Mentor, Skill Academy on 08.07.2025



8. Department of ECE organizes Yoga, Physical fitness, health and hygiene program titled Breathe, Stretch, Grow: Yoga for Stress Management and well Being for III year ECE students dated on 21.07.2025 by Mr.J. Ragul, III/ECE student, A state level winner in yoga

9. Department of ECE organized a Endowment Lecture Titled Design & Implementation of 6T- SRAM cell using Cadence DA Tools(Schematic- to-GDSII) on 25.07.025, by Ashok kumar Manisekaran, Praya labs, Tiruvannamalai, for IV year ECE Students.



NATIONAL DAY CELEBRATIONS

1. Department of ECE organized an event for "National Education Day" on 11.11.2025.

2. Department of ECE organized an event for "National Entrepreneurship Day" on 12.11.2025.

3. Department of ECE organized an event for "National Pollution Control Day" on 2.12.2025.

4. Department of ECE organized an event for "National Education Day" on 11.11.2025.

5. Department of ECE organized an Animation video competition for MVIT student related to SDG 1. - 14 dated on 21.07.2025

6.1. Department of ECE organized an event for "World Blood Donor Day" on 14.06.2025



STAFF ACTIVITIES:

WORKSHOP/GUEST LECTURE/VAC

1. Dr.R. Sofia AP/ECE organized a workshop on "Concepts in Engineering electromagnetics: A Hands on Session Using Matlab" delivered by Dr. P. Manikandan, ASP/ECE, Kalasalingam Academy of Research and Education on 27.6.2025 for III yr ECE students.

2. Dr.R. Sofia, AP/ECE delivered a session on Research Design and Innovation in Signal and Image Processing: Tools, Techniques, and Trends on 23.07.2025 for IV year ECE students



3. Dr.R.Sofia AP/ECE, conducted a Value Added Course (VAC) on "iMAT: Image Manipulation and Analysis Toolkit" for ECE -III yr students from 21.07.2025 to 25.07.2025



4. Dr.S. Arunmozhi, Professor & Head/ECE handled a session on "Outcome Based Education" for the MVIT faculty members on 02.08.2025



5. P. Vadivukarasi AP/ECE, conducted a Value Added Course (VAC) on "Software simulation tools" for ECE -IV yr students from 08.09.2025 to 12.09.2025.



6. Mr. M. Kameeshwaran AP/ECE conducted a workshop on "AI IN AUTOMOBILE INDUSTRY" for II yr ECE students on 13.09.2025.



7.Mr. V. Rajesh Sr. AP/ECE conducted a workshop on “Digital Logic Implementation using QCA” for II year ECE students on 26.7.2025



8.Mrs. K. Alamelu AP/ECE organized a Guest Lecture titled “Getting Started with Robotics” for III Year ECE students on 27.06.2025 by Mr.R. Mohammed Fadil, Managing Partner ADROIT Technovations



9.Mr. C.Thiagarajan AP/ECE organized a guest lecture entitled “Potential Career Opportunities in VFX” delivered by Ms.Uma Shankar, Relationship Executive, Jgene VFX School of Technology, Chennai on 3.10.25 for III yr ECE students.

10.Dr.S.Semmalar ASP/ECE organized a guest lecture entitled “Empowering Startup System” delivered by Mr. R. S. L. Balaji, Founder & Director of Altruisty Innovation Pvt. Ltd on 02.09.2025 for III yr ECE students.



PUBLICATIONS

11.Dr.S. Arunmozhi, HOD/ECE Received best IETE coordinator

12.Dr. R Valli R&D Dean, published a paper in the journal of IOP Publishing (Journal of Optics) entitled “A low-profile Alford antenna for OAM beam generation with enhanced mode purity” in the year 2025.

13.Dr. S.Arunmozhi HOD/ECE published a paper in the journal of Springer Nature (Discover Computing) entitled “Classification of chest radiographs into healthy/pneumonia using Harris-Hawks Algorithm optimized deep-features” in the year 2025.

14.Mr. R.Sambath kumar AP/ECE published a paper in the journal of Springer Nature (Discover Computing) entitled “Detection and Localization of Deceptive Nodes in Underwater Wireless Sensor Networks Using Secure Routing” in the year 2025.

15.Dr. R. Sofia AP/ECE published a paper in the Conference of IEEE ICCMC Conference entitled “Design and Implementation of IMPA-ResNet50: A Hybrid Deep Learning Model for Liver Cancer Detection” in the year 2025.

16.Mrs. R.Vithiya AP/ECE published a paper in the Conference of IEEE ICETEA Conference entitled “Non-Invasive Glucose Monitor and Smart Infusion in Intravenous” in the year 2025.

FDP/NPTEL ATTENDED:

17.Dr. S. Arunmozhi, Professor/Head/ECE, attended a FDP on topic “NEP 2020 Orientation and Sensitization Programme” in the duration of 9 days from 18-8-2025 to 26-08-2025.

18.Dr. S. Arunmozhi, Professor/Head/ECE, attended a FDP on topic “Innovative Ways of CO-PO Attainment: Newer Trends” in the duration of 5 days from 16-6-2025 to 20-6-2025.

19.Dr. S. Semmalar, ASP/ECE, attended a FDP on topic “Trends in VLSI & Embedded Systems Design Technologies” on 13-06-2025

20.Dr. S. Semmalar, ASP/ECE, attended a FDP on topic “Recent advancements in Artificial Intelligence (AI) & ML” in the duration of 5 days from 30-06-2025 to 04-07-2025.

21.Dr. S. Semmalar, ASP/ECE, attended a FDP on topic “Outcome-Based Learning in HEIs for Quality Education” in the duration of 5 days from 18-7-2025 to 22-7-2025

22.Dr. S. Semmalar, ASP/ECE, attended a FDP on topic “Recent Advancements in Machine Learning: Emerging tools, techniques and Applications” in the duration of 5 days from 24-11-2025 to 28-11-2025

23.Mrs. Vithiya, AP/ECE, attended a FDP on topic “The Role of AI and IOMT in transforming Healthcare Systems” in the duration of 5 days from 28-08-2025 to 2-09-2025

24.Mrs. Zarina Begum, AP/ECE, attended a FDP on topic “Recent Trends on AI – Text, Vision & Hardware Implementation Models” in the duration of 5 days from 16-6-2025 to 20-6-2025.

25.Mrs. Zarina Begum, AP/ECE, attended a FDP on topic “Recent Trends and Future Perspective of AI in Image Processing Tools, Techniques and Applications” in the duration of 5 days from 13-10-2025 to 17-10-2025.

26.Mrs. V. Mohana, AP/ECE, attended a FDP on topic “Quantum-Driven Semiconductors: Fabrication, Function and Future” in the duration of 5 days from 10-11-2025 to 15-11-2025

27.Mrs. V. Mohana, AP/ECE, attended a FDP on topic “Future Intelligent Network toward 6G:5G and beyond with Reconfigurable SDR and Machine Learning” in the duration of 5 days from 24-11-2025 to 29-11-2025

28.Mrs. Ranjitha P, AP/ECE, attended a FDP on topic “Semiconductor Design for Real World AI Applications” in the duration of 5 days from 15-09-2025 to 20-09-2025.

29.Mrs. Ranjitha P, AP/ECE, attended a FDP on topic “Recent Advancements in Machine Learning: Emerging Tools, Techniques and Applications” in the duration of 5 days from 24-11-2025 to 28-11-2025

30.Mr. Mohanraj, AP/ECE, attended a FDP on topic “Generative AI and its Multidisciplinary Applications in Engineering and Technology” in the duration of 5 days from 16-06-2025 to 21-06-2025

31.Mr. Mohanraj, AP/ECE, attended a FDP on topic “Recent Trends and Future Directions in AI for Medical Imaging” in the duration of 5 days from 10-11-2025 to 15-11-2025.

32.Mr. Mohanraj, AP/ECE, attended a FDP on topic “Advanced Materials for Next Generations Space and Defence Technologies” in the duration of 5 days from 21-08-2025 to 27-08-2025

33.Mr. Mohanraj, AP/ECE, attended a FDP on topic “AI IOT Edge Revolution: Building the future of Smart Systems” in the duration of 5 days from 17-11-2025 to 22-11-2025

34.Dr. M. Sivasindhu, AP/ECE, attended a FDP on topic “AI innovations in Computer vision, IOT and medical imaging applications” in the duration of 5 days from 16-06-2025 to 26-6-2025

35.Mrs. P. Vadivukarasi, AP/ECE, attended a FDP on topic “AI innovations in Computer vision, IOT and medical imaging applications” in the duration of 5 days from 16-06-2025 to 26-6-2025

36. Mr. K. Sabarinathan, AP/ECE attended a FDP on topic "Impact of Terahertz Technology in India by 2040" in the duration of 5 days from 3.06.2025 to 4.06.2025

37. Sabarinathan K AP/ECE and Mr. Mohanraj, AP/ECE completed 12 WEEKS duration NPTEL course entitled "OBE and Accreditation" from Jul-Oct 2025.



IPR ACTIVITY

38. Dr. R. Sofia organized IPR activity seminar entitled "Digital Intellectual Property Seminar" for III ECE delivered by Dr. P. Jayakumar Attorney-IPR, Research Faculty KARE on 1.7.2025.



EDP ACTIVITY

39. Dr. R. Sofia AP/ECE organized EDP activity entitled "Design Analysis and Manufacture for Marine & Aerospace Application" for III ECE by Prof. Verramanikandan Ramachandiran Mannschaft Eng. Solutions on 2.7.2025



40. Dr. S. Semmalar, ASP/ECE arranged a Seminar on Entrepreneurship and Innovation for Higher Education Institutions by Dr. K. Indumathi, Professor/ECE/ Saveetha Engineering College, for ECE students on 01.09.2025



ALUMNI CONTRIBUTIONS

41. Mr. M. Velmurugan, Lead Developer at NU Logic Pvt. Ltd., delivered a session about Sales Force Commerce Cloud to III Year ECE students on 28.06.2025



42. A Lecture by ECE Alumni students titled "Knowledge on 6G Technology" by Mr. M. Maheshwaran, Maveria Solutions Pvt, Ltd Team Lead (2019-2023 Batch) for II ECE dated on 26.7.2025



QUALITY IMPROVEMENT PROGRAMS

43. Quality Improvement Program on "Tools for Quality Implementation of Research" was organized by the Department of Electronics and Communication Engineering, featuring Dr. J. Ajayan, Professor and Dean (PG Programs), SR University, Telangana dated on 26.06.2025 for the faculty member MVIT.



44. Quality Improvement Program on "Emerging Trends and Quality Standards in Medical devices" for ECE department Students (All Year Students) on 16.07.2025 by Mr. Cyril Antony Co-founder. Engineer. Med-Tech Entrepreneur



45. Dr. A. Thenmozhi, Dean (Academics), handled a session titled "Yoga for Health and Wellness" for the II Year ECE students on 14.10.2025 in the ACL Lab.



MOU SIGNED

46. MOU signed with ADROIIT Technovations on 27.06.2025



47. MOU signed with Aerobiosys on 16.7.2025



FACULTY OUTSIDE WORLD INTERACTION

48. Mr. V. RAJESH Has been a resource person for the Achariya Engineering college dated on 16.07.2025

49. Dr. M. Jayekumar, Professor/ECE Given a Guest Lecture on "Understanding resumes: High Educational Opportunities IGGMC&RI, Thilaspeta, Kathirkamam, Puducherry" on 26.09.2025



50. Dr. M. Jayekumar Professor/ECE given an Orientation session on Overview of Placement Process with Industry expectations and requirement on 1ST August 2025 at 10.00Am in Achariya College of Engineering and Technology



51. Dr. S. Semmalar ASP/ECE Participated as a delegate in FounderX Global conference in Auroville, Puducherry on 21.07.2025 and 22.07.2025

52. Dr. S. Semmalar ASP/ECE has been a resource person for Adhiparashakthi College of Engineering.



53. NI days 2025 India. Intelligence Test Systems customer success Future Vision. Organized by National Instruments (NI) @ Sheraton Grand Bengaluru attended by Mr. V. Rajesh and Mr. Anbazhagan on 8th July 2025



STUDENTS ACTIVITIES

CO-CURRICULAR ACTIVITIES

- 54.Santhakumar M, Ragul J, Anand R and Deepak P III-ECE B sec participated in SAI TECHGRAIL in Sairam Engineering College and won 1st prize held on 28/10/2025 & 29/10/2025
- 55.Rathish K, Vishal L and Siddharth K III ECE-A participated in ATAL Incubation workshop at Pondicherry held on 18/09/2025 to 20/09/2025
- 56.Shageen A III ECE-A participated in Code Clash 25 organized by Ocean Academy on 25/10/2025 selected as Finalised.
- 57.Sahana Jayamurthy undergone Embedded Systems Intern in ATAL Incubation on 24/06/2025 to 18/07/2025
- 58.Sowmiya J completed a NIELIT certified course on entitled "MATLAB & Simulink" from 10/07/2025 to 14/07/2025.
- 59.KAVINRAJ. U.N, Dharranidhara n. V , Mukesh Annamalai.S, Bathreesh.M and Rathish.K III ECE-A completed NPTEL course in Cloud Computing.



EXTRA CURRICULAR ACTIVITIES

60.Arularasu and Tamilarasan of III-ECE, along with a student from ECE, won the Gold Medal in the State-Level Hockey Tournament organized by LE Hockey, Pondicherry



61Mr. Arularasu- secured First Place and Mr. Shiyam- secured Second Place in in the Red Ribbon Marathon held on 31st July 2025 at Pondicherry Beach.

62.Mr. Shyam, a student of III Year ECE, represented MVIT College in the District-Level Red Ribbon Club Marathon held on 31st July 2025 at Pondicherry Beach.

64.Arularasu M and Tamilarasan (III Year, ECE - "B") were part of the team that emerged as Winners of the Pondicherry Hockey State Championship 2025.



65.Nandagopal - III Year, ECE won gold medal in Inter-College Swimming Competition of Pondicherry University was held today at Sri Venkateshwaraa Medical College, Ariyur, Puducherry

66.Our ECE -III Yr students secured the runner-up position in an exciting competition of puducherry State Hockey Tournament and earned the opportunity to play at the national level.

EDITORIAL TEAM

Faculty In-Charges

Dr.S.ARUNMOZHI, Professor & Head/ ECE

Mr.V.RAJESH, Sr. Grade AP/ ECE

Mrs.V.MOHANA, AP/ ECE

Student Editors

**HERESH M
IV YR-ECE**

**MUKESH SWAMY M
IIIR-ECE**

**PRANNISH .K
IIR-ECE**

Thank you