ATME
College of Engineering



Department of Electronics and Communication Engineering

ECHELON

Bi-Annual Newsletter

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News Headlines

- Message from Principal
- Message from HOD
- Editorial Committee
- About the Department
- Vision & Mission of the Department
- Staff Achievements
- Department Activities
- Student Achievements
- Toppers list
- Program Outcomes, Program Specific Outcomes = Program Educational Objectives

Message from Principal



The field of Electronics and Communication Engineering is continuously evolving and plays a vital role in shaping modern technology and society. Through this newsletter, the department highlights its commitment to academic excellence, technical skill development, and holistic growth of students. Proud to present the latest edition of our ECE newsletter, highlighting the remarkable efforts of our faculty and students. Best wishes to the team for ongoing excellence.

Regards
Dr. L. Basavaraj
Principal, ATMECE

Message from HoD

It is a privilege to present Volume 13, Issue 1 of the ECE Department newsletter. This edition showcases the collective dedication and achievements of our faculty, staff, and students. I sincerely thank all contributors and encourage continued excellence in all endeavors.

Sincerely
Dr. Prathibha M K
HOD, ECE



Editorial Committee

Chief Editor

Dr. Prathibha M K
HoD

Editor

Mrs. Madhurya B Eshwar
Assistant Professor

Members

Mrs. Juslin Franklin
Assistant Professor

Student Members

Ms. Riya Vijay
Ms. Bi Bi Ayesha

About the Department

The Department of Electronics and Communication Engineering at ATME College of Engineering was established in 2010 with an initial intake of 60 students, which was increased to 120 in 2012 owing to rising academic demand. The department offers a four-year B.E. program and Doctoral programs, with a strong focus on both core and advanced domains such as Wireless Communication, Signal and Image Processing. VLSI and Embedded Systems, Biomedical Engineering, and Advanced Control Systems. Accredited by the National Board of Accreditation (NBA), New Delhi, the program reflects high academic standards and a commitment to continuous improvement. The department is supported by state-of-the-art infrastructure, including advanced laboratories and computing resources, fostering experiential learning and research.

Key facilities include a VLSI Lab equipped with Cadence tools (30-user license), an IoT Lab for system integration and real-time applications, and an NI LabVIEW Lab for virtual instrumentation and automation. These labs support hands-on learning, project development, and innovation. The department boasts a team of highly qualified faculty with multidisciplinary expertise and a strong research orientation. A well-stocked collection of textbooks and reference materials further supports student learning and academic excellence. Through its blend of rigorous academics, practical exposure, and industry-aligned training, the department aims to produce technically competent, innovative, and globally competitive engineers.

Vision of the department

To develop highly skilled and competent professionals in the field of Electronics and Communication Engineering to meet industrial and social requirements with ethical responsibility.

Mission of the department

To provide State-of-art technical education in Electronics and Communication at undergraduate and post-graduate levels, to meet the needs of the profession and society and achieve excellence in teaching-learning and research.

To develop talented and committed human resource, by providing an opportunity for innovation, creativity and entrepreneurial leadership with high standards of professional ethics, transparency and accountability.

To function collaboratively with technical Institutes/Universities/Industries, offer opportunities for interaction among faculty-students and promote networking with alumni, industries and other stake-holders.

DEPARTMENT ACTIVITIES

- Industrial Visit to Schneider Electric India Pvt. Ltd., Mysuru for 5th and 7th semester students on 24-10-2025
- Industrial Visit to Lahari ESDM Cluster, Mysuru for 7th semester students on 24-09-2025
- Department conducted 3-days Skill-Building Workshop: Controller-Based I/O Interfacing and its Applications for 3rd Semester Students from 17-12-2025 to 19-12-2025
- Department conducted technical talk for 5th and 7th Semester Students "In-Band Coexistence and Spectrum Sharing Communications" on 11.11.2025






Schneider Elec
GPS Map Camera
Mysuru, Karnataka, India
Plot No.358, 360, Hebbal Industrial Estate, Hebbal Industrial Area, Mysuru, Karnataka 571130, India
Lat 12.357333° Long 76.592315°
Friday, 24/10/2025 03:45 PM GMT +05:30
Google

FACULTY ACHIEVEMENTS

- Dr Prathibha M K appointed as Board of Examiner for dept. of ECE, VTU Belagavi for AY 2025-26



- Dr. Bhagyashree S R received an INSPERA AWARDS 2025 under the category of WOMEN IN TECH LEADERSHIP IMPACT AWARD at the conference CISCom 2025 held at Melaka on the 26th and 27th of November 2025.





- Dr. Bhagyashree S R received national faculty award 2025 under the award of excellence in research by Novel Research Academy, Puducherry on 15th September 2025





- Dr. Bhagyashree S R attended Karnataka Digital Economy Mission (KDEM) -A Government of Karnataka Initiative Women@Work (W@W) Leaders Roundtable on the theme: "Advancing Women in Tech and Emerging Industries: Pathways to Inclusive Growth" on 4th July 2025, Director Infosys Campus, Mysuru



- Keerthi A Kumbar received Best Paper Award for the topic "A Review on Miniaturisation and Bandwidth Enhancement in Defected Ground Structure in Antenna Technology" presented at the International Conference on Emerging Technologies in Electronics and Green Energy (ICETEG 2025) held at JSS Science and Technological University, Mysuru during 10th & 11th Oct 2025 and also received the cash amount of Rs.10,000
- Pradeep Kumar Y received "Best Teacher award for the AY 2023-24" on occasion of teachers and engineers day which was held at ATMECE, Mysuru.
- HR Manjunath received "Best Technical staff award for the AY 2023-24" on occasion of teachers and engineers day which was held at ATMECE, Mysuru.





Workshops / Faculty Development program:

- Guruprasad K N and Pradeep Kumar Y attended "Integrating AI into Academia: One-week FDP on Advancements in AI" from 21-07-2025 to 26-07-2025
- Nagesh M S attended one week FDP "Intelligent Automation: Leveraging Robotics, AI, and IoT for Industry 4.0" from 10-11-2025 to 15-11-2025 at JSSTU, Mysore
- Dr.Prathibha M K attended one week FDP on Cyber Security at IIIT Dharwad from 24th to 29th November 2025.
- Anupama Shetter and Girish M attended Workshop on " PCB Design and Fabrication " Conducted at Bannari Institute of Technology, Sathyamangalam, Tamilnadu from 13th Oct to 17th Oct 2025
- Madhurya B Eshwar attended one week FDP on "Empowering research excellence" at VTU CGPS, Mysore from 24-11-25 to 28-11-25
- Rajeev Gowda R, Madhurya B Eshwar, Spoorthi P N, Dr. Manjula A V, Dr. Shalini Hanok attended one day FDP on "Growing Globally Competitive Currency in Higher Education" on 08-10-2025 in ATMECE, Mysore
- Rajeev Gowda R attended one week online FDP on "Next Gen Research Competencies: FDP on AI Applications & Research Tools for Educators" from 13th Oct to 17th Oct 2025
- Chandra Shekar P attended SPARC Sponsored Workshop on Software Hardware Co-Design (SPARC-SwHwCoD) Hybrid Mode from 17-12-2025 to 23-12-2025

- Dr. Shalini Hanok attended AICTE-QIP on Cybersecurity at IIIT Dharwad from 7th July 2025 to 20thDecember 2025
- Dr Veeraprathap V attended CIS Summer School / High-End Workshop on "AI for Disaster Resilience: Prediction, Preparedness, and Post-Disaster Management" at Nit Calicut from 15th Dec 2025 to 19th Dec 2025

NPTEL Swayam:

- Nagesh M S completed NPTEL Certification on "Digital Electronics & System Design" for 12 weeks duration
- Guruprasad K N completed NPTEL Certification on "Soft Skills" and "Artificial Intelligence: Concepts and Techniques" during AY 2025-26
- Mythri R completed NPTEL Certification on "Fundamentals of Electronic Device Fabrication" (4 Weeks) during July-August
- Dr.Prathibha M K completed NPTEL Certification (12 weeks) on "Digital Image Processing" during Jul-Oct 2025
- Anupama Shetter, Chandra Shekar P, Nagesh M S, Rajeev Gowda R, Madhurya B Eshwar, Juslin F, Manjunath K completed Certification course on "Patent filing in India"
- Juslin F completed 8 weeks NPTEL Online Certification course on "Accreditation and Outcome Based Learning" during Aug-oct 2025 from IIT Kharagpur
- Manjunath K completed 12 weeks NPTEL Online Certification course on "Digital electronics" July-Oct 2025 from IIT Kharagpur
- Anupama Shetter and Girish M completed Altium Designer Essentials- On Demand Course on 23-11-2025
- Pradeep Kumar Y completed NPTEL Certification on "Artificial Intelligence: Concepts and Techniques (12 Weeks)"
- Dr..Manjula A V completed NPTEL online certifcation on "Introduction to internet of Things (12weeks)"
- Spoorthi P N completed NPTEL certification on "outcome based and accreditation program"

As a Resource Person:

- Juslin F was a resource person to the Technical talk on: The next frontier in AI (Online) at JSSSTU on 19-11-2025

As a Reviewer in IEEE Conferences:

- Dr. Bhagyashree S R participated as an External expert for project work poster presentation held at University of Mysore for students of MCA & MSc on 26-7-2025
- Dr. Bhagyashree S R participated as a Panel member for the International Conference on Computational Intelligence and Soft Computing (CISCom 2025) held at Universiti Teknikal Malaysia Melaka (UTeM), Melaka, Malaysia from 26-11-2025 to 27-11-2025
- Dr. Bhagyashree S R participated as a TPC Member of 5th International Conference on AI, Machine Learning in Communications and Networks (AIMLNET 2025), Sydney, Australia from 18-10-2025 to 19-10-2025
- Dr. Bhagyashree S R participated as a TPC Member of 11th International Conference on Signal and Image Processing (SIGPRO 2025), Vienna, Austria from 25-10-2025 to 26-10-2025
- Dr. Bhagyashree S R participated as a TPC Member of 11th International Conference on Software Engineering (SOFT 2025), Zurich, Switzerland from 17-10-2025 to 18-10-2025
- Dr. Bhagyashree S R participated as a Session chair IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025) organized at Mysuru Royal Institute of Technology, Mandya from 24-10-2025 to 25-10-2025
- Dr. Bhagyashree S R participated as a Jury member for PRAKALP: State Level Project Presentation organized by the NIE IEEE Student Branch, in collaboration with the IEEE Mysore Subsection and the Department of Electronics and Communication Engineering, NIE on 15-11-2025
- Dr. Bhagyashree S R participated as The Chairperson for 3rd Party Inspection of the biomedical equipment procured for the establishment of Centralised Research & Development Facility at CDOE, VTU is convened on 11-07-2025
- Dr. Bhagyashree S R participated as a Reviewer of International Conference on NMITCON organized by Nitte Meenakshi Institute of technology, Bengaluru from 01-08-2025
- to 02-08-2025
- Dr Veeraprathap V participated as a Reviewer of International Conference on NMITCON organized by Nitte Meenakshi Institute of technology, Bengaluru from 01-08-2025
- to 02-08-2025
- Dr Veeraprathap V participated as a Reviewer of IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025), organized at Mysuru Royal Institute of Technology, Mandya from 24-10-2025 to 25-10-2025
- Dr Veeraprathap V participated as a Reviewer of AICTE Sponsored International Conference on Agrivoltaics Innovations Focusing on Smart Farming with Renewable Energy, Machine Learning and Embedded Technologies (IC-AISMART 2025), JSSATE Bengaluru from 11-12-2025 to 12-12-2025
- Guruprasad K N was a Jury member - "Ideathon and Tech Tattva" organized by Datanauts Club, Dept. Of CSE (Data Science) on 19-11-2025
- Chandra Shekar P was a Reviewer for IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025) on 24-10-2025
- Chandra Shekar P was a Reviewer for International Conference on Intelligent Algorithms for Computational Intelligence Systems (IACIS) 2025 from 22-08-2025 to 23-08- 2025

- Chandra Shekar P was a Reviewer for International Conference on Data Science and Network Security (ICDSNS–. 2025) from 25-07-2025 to 26-07-2025
- Chandra Shekar P was a Reviewer for IEEE International Conference on Networks, Multimedia and Information Technology from 1-8-2025 to 2-8-2025
- Chandra Shekar P was a Reviewer for International conference on intelligent computing and knowledge extraction (ICICKE-2025) from 6-6-2025 to 7-6-2025
- Nagesh M S was a Reviewer for IEEE International Conference on Communication, Computer, and Information Technology (IC3IT-2025) from 24-10-2025 to 25-10-2025
- Nagesh M S was a Reviewer for 3rd IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON-2025) from 01-08-2025 to 02-08-2025
- Nagesh M S was a Reviewer for International conference on intelligent computing and knowledge extraction (ICICKE-2025) from 06-06-2025 to 07-06-2025
- Anupama shetter was a Reviewer for 4th International Conference on Intelligent and Innovative Technologies in Computing, Electrical and Electronics - ICIITCEE 2026, Technically Co-Sponsored by IEEE Bangalore Section from 22-01-2026 to 23-01-2026
- Anupama shetter was a Reviewer for Electrical Engineering and Informatics (BEEI). BEEI, ISSN: 2089-3191, e-ISSN: 2302-9285 is the official publication of the Institute of Advanced Engineering and Science (IAES) on 10-12-2025

Publications:

- Dr. Prathiba M.K published a paper “A Novel Algorithm for Respiration Rate Detection Using Deep Learning and Real-Time Sensor Data”, in Journal of Wireless Mobile Networks, Ubiquitous Computing, and Dependable Applications (JoWUA), 2025 volume: 16, number: 3 (September), pp. 334-353.
- Chandra Shekar P published a paper “A Deep Learning Paradigm for Automated Disease Detection in Smart Healthcare Systems”, 7th ICMCSI-2026 / ICIPCN-2026, Kathmandu University, Nepal, 27–29 January 2026 (Scopus Indexed).
- Chandra Shekar P “Deep Learning Approaches for Skin Lesion Classification”, 3rd IEEE International Conference on Networks, Multimedia & Information Technology (NMITCON-2025), 1-2 August 2025, Nitte Meenakshi Institute of Technology, Bangalore. (Scopus Indexed)
- Guruprasad K N, Spandana K G, Manasa G, Hemashree G M, Balaji G V presented a paper “Medical Based System for Accurate Blood Donor Matching Prediction Using Machine Learning”, in International Conference on Recent Trends in Engineering, Science and Technology (RTEST-2025), Xavier Institute for Research and Development, 25 October 2025.
- Guruprasad K N, Poorvitha S, Varsha H S, Suchithra J, “Artificial Nose using Support Vector Machine”, presented a paper in International Conference on Recent Trends in Engineering, Science and Technology (RTEST-2025), Xavier Institute for Research and Development, 25 October 2025.

- Guruprasad K N, Manasa G, Spandana K G, Navyashree B R, Hemashree G M, published a paper “Third Eye for the Blind: An Assistive Vision System Using IoT”, in Technix International Journal for Engineering Research (TIJER), Volume 12, Issue 11, November 2025.
- Guruprasad K N, Poorvitha S, Varsha H S, Suchithra J published a paper “Smart Home Automation System Using Wi-Fi and Bluetooth”, in Technix International Journal for Engineering Research (TIJER), Volume 12, Issue 10, October 2025.
- Guruprasad K N, Mahesh P K, published a paper "A Comprehensive Review of Optimization Techniques for Fine-Tuning Autoencoders with Deep Learning", in International Research Journal of Engineering and Technology (IRJET), Volume 12 Issue 07, July 2025.
- Nagesh M S published a paper “Peer-To-Peer Communication System Using Flex Sensor Smart Glove for Enhancing Accessibility in Speech and Hearing Challenges” in ieeexplore on 22 January 2026. Doi:10.1109/IC3IT66137.2025.11341024
- Nagesh M S published a paper “Hybrid Deep Learning Models for Accurate EEG-Based Cognitive State Classification” SN Computer Science – A Springer Nature Journal on September 2025. https://doi.org/10.1007/s42979-025-04338-x

STUDENT CORNER

- On September 10th 2025, Roborage 2K25 – National Level Robotics Competition was held at BIET, Davangere. The competition was attended by students of 5th and 7th semester namely S Shivu, Yatheesh S, Pradhan Kumar, Sandesh Mirashi, A R Nandish, Aasim Ahmed, Bhoomika J K, Divya D Seervi, Bi Bi Ayesha, Dhanyaswini S, Dyuthi N V, Divyashree N, Bhoomika V, Gaganashree M, Chandra Shekar B. S Shivu, Yatheesh S, Pradhan Kumar, Sandesh Mirashi team qualified for the finals, missed securing a prize by just 4 seconds, as only two prizes were allotted in the competition.



- On November 28th and 29th 2025, E-Minds Hackathon 2.0 was held at GSSSIETW, Mysuru-. The competition was attended by Geetha Bai, Navyashree B R, Shekhar C, Kruthi, Likitha B, Suryakumar P, Divya D Seervi. Geetha Bai, Navyashree B R, Shekhar C have won 1st place and cash award



- On November 21st 2025, SPARK 2025 IEEE mini project expo was held at Brindavan college of Engineering, Bengaluru. The competition was attended by students namely Sinchana J, S Chinvitha, Preetham B K, Preetham C S, Shreyas D, Shashank B V, Sanjana K, Smitha K L, Rashmitha E , Shivakarthik TS, Shivaraju KP, Srilakshmi P. Sinchana J, S Chinvitha, Preetham B K, Preetham C S have secured 1st place with a cash prize of Rs.2500/-
- e-yantra Robotic Competition - 2025 (Online Simulation, Hardware Implementation and execution of tasks) was held during September 2025 to March 2026. The competition was attended by students namely Shobith B R, Sneha M, S Shivu, Sandesh Mirashi, Yatheesh S, Pradhan K, Harsha K N, Kavana S, Manohar B, G N Hemant Kumar, VV Riya Vijay, Pruthvi P, Gagana S L, Harsha Shatavaji, Shekhar C, Keerthana A R, Meghana S, Subhash Chandra H P, Fariya Noor, Harshini S T, Chandana K, Preethi K. Shobith B R and Sneha M have secured full marks in the CropDrop Robotic Simulation Round, qualified for the Hardware Round, and has received the Hardware Robotic kit from e-yantra, IIT Bombay.
- On November7th and 8th 2025, Digital Design Track at CASCADE 2025 was held atPresidency University, Bengaluru. It was a state level student design competition in association with IEEE CASS, Bengaluru section. The competition was attended by students namely Harsha V Shatavaji and Navya Shree B R. They got Runner Up prize.



- On 11th December 2025, V-VISION-2025 National level Project Expo was held at Vidya Vikas Institute of Engineering and Technology, Mysuru. The students of 5th semester namely Chathurthi B R, Divya B K, Gowthami B Sand Mokshitha N G were participated in the competition
- From December 18th to 20th Aspiring Mysuru – 2025 was held at Bharat Scouts and Guides Grounds, Mysuru. Students of 3rd semester namely Aishwarya G R, Mohammed Saad, S Chinvitha and Sinchana J were participated in the event.







- On September 19th, IDEATHON-IDEAS FOR FUTURE: Vision-2030 was held at Mysuru. Students of 7th semester namely Arun.N, Shrinath D Pol, Tejaswini D and Varshitha N R were participated in the event.
- On September 6th and 7th Hackxerve 2.0 was held at VVCE MYSURU. Students of 5th semester namely Shobith B R and Sneha M were participated in the event
- On August 30th and 31st Semiconductor & Manufacturing was held at IISC Bangalore. Students of 5th semester namely Shobith B R and Sneha M were participated in the event
- On September 19th and 20th CODE VAULT was held at MIT, Mysuru. Students of 7th semester namely Shreyas Shridhar Kulkarni, Sonu C, Shweta and Ganavi N were participated in the event
- On October 8th and 9th 24hrs National level Hackathon was organized by CMRIT College of Engineering Bengaluru. Students of 7th semester namely Shreyas Shridhar Kulkarni, Sonu C, Shweta and Ganavi N were participated in the event
- On October 16th and 17th students of 7th semester namely Meghana T, Dharanya R, Aishwarya K N, Dhanush C, Gagana S L, Akash L and Mrudula M Gowda participated in Springer Conference "International Conference on Digital Technology and Engineering(ICDTE-2025)" organized by RV Institute of Technology and Management Bengaluru.


GPS Map Camera
Bengaluru,Karnataka,India
80 Feet Road, JP Nagar Phase 8, Bengaluru, Karnataka 560076, India
Lat 12.873192, Long 77.575279
Friday, 17/10/2025 11:55 AM GMT+05:30
Note : Captured by GPS Map Camera


GPS Map Cam
Bengaluru,Karnataka,India
80 Feet Road, JP Nagar Phase 8, Bengaluru, Karnataka 560076, India
Lat 12.873188, Long 77.575280
Friday, 17/10/2025 11:55 AM GMT+05:30

- Ambuja, Divya H R, Harshitha H K, Jeevan Gowda N K, Kruthika K L, Lokesh S, Nisarga R and Tanushree T R have successfully completed the K–VLSI Post Graduate Diploma Programme on 16-08-2025

Student Achievements

	Student Name	USN	Subject	Marks
AY 2024-2025	GURU DARSHAN M B	4AD22EC027	Embedded System design - BEC601	92
	HARSHA VASAPPA SHATAVAJI	4AD22EC030	VLSI design and Testing BEC602	90
	SHASHANK R P	4AD22EC098	VLSI design and Testing BEC602	90
	P MANOJ KUMAR	4AD23EC063	Electromagnetics Theory - BEC401	86
	NAVYA SHREE P D	4AD23EC057	Control Systems BEC403	89
	SNEHA M	4AD23EC094	Microcontrollers – BEC405A	93
	JEEVAN RAJ N	4AD23EC036	Principles of Communication Systems - BEC402	94

Toppers list

Semester	Student name	USN	CGPA
6th	TEJASWINI D	4AD22EC114	9.20
4th	SNEHA M	4AD23EC094	9.35
2nd	KRUSHIKA D	4AD24EC043	9.25

Program Outcomes (PO)

- **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 with consideration for sustainable development
- **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.
- **PO4:** Conduct investigations of complex problems: 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
- **PO5:** Modern 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
- **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.
- **PO7:** Ethics: Apply ethical principles and commit to professional ethics, human values, diversity and inclusion; adhere to national & international laws
- **PO8:** Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **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.

Program Specific Outcomes (PSO)

- **PSO1:** To have the capability to understand and adopt the technological advancements with the usage of modern tool to analyze and design embedded system or processes for variety of applications.
- **PSO2:** To work effectively in a group as an independent visionary, team member and leader having the ability to understand the requirement and develop feasible solutions to emerge as potential core or electronic engineer.

Program Educational Objectives (PEO)

- **PEO1:** To produce graduates to excel in the profession, higher education and pursue research exercises in Electronics and Communication Engineering.
- **PEO2:** To create technically able alumni with the capacity to examine, plan, to create and execute Electronics and Communication frameworks thereby involving in deep routed learning.