



INSPIRE

Electrical and Electronics Engineering

**Bi-Annual
News Letter**

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Prof & Head, Dept. of EEE ATMECE, Mysuru

EDITORIAL DESK

This newsletter provides a proper platform to students and faculty to exhibit their creative talents. It is becoming a need to motivate the students community in technical Institutions to be exposed to additional knowledge over and above those in prescribed curriculum in order to provide them an opportunity to professionally mature at faster rate. I congratulate all the students and faculty and who have contributed their valuable creations for publication in this issue. I also take this opportunity to appreciate the strenuous effort made by the editorial to bring out the newsletter. I convey my good wishes to all the readers and wish them a happy and enjoyable reading

CO-EDITOR



Dr. Praveen Kumar M
Assistant Professor Dept. of Electrical & Electronics Engineering
ATME College of Engineering Mysuru

Key Milestones of ATMECE

NBA Accreditation, EEE,ECE,ME,CE (II Term);CSE(I Term)
NAAC A+ Grade (I Cycle)
VTU 8th Rank :Electrical & Electronics Engineering

Rated Gold by QS I-Gauge for Overall Excellence
Swachh Institute, GoI: 2019-2020
DST, AICTE-MODROB Grants: 2.50+ Crores

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KEY MILESTONES

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- Ms. Safeena Shazia Secured **8th Rank** in University with an average score of 84.55%
- **NAAC A+** grade Accreditation in the first cycle.
- **National Board of Accreditation** (Term-1: 2019-2022; Term-II: 2022-2025)
- **AICTE-MODROB Funding** for Cybersecurity in Power Systems
- **Funding from KTECH-NAIN** for Project Portable Baby Incubator with Sleep Apnea Monitoring for Premature Infants
- **Best Student Project** under Karnataka State Council for Science and Technology(KSCST) for 3 Consecutive Years
- Financial Assistance for student Projects by VTU and KSCST.
- 98% and above Results in previous Six Graduating batches.
- **Inter Institute Project Winners**, Toycathon Semi-finalists, IIC-MHRD proposal, IICDC-DST participation etc.
- University level sports representation with **gold medal**.
- **Average Placement:** 70 % and above
- **Our Alumni are entrepreneurs** owning companies like FLARE LED, Madhu Electricals, Eagle Electricals, Manswi Infotech, nclues etc
- Alumni are working in premier MNCs like **Oracle, IBM, Infosys, L&T, SIEMENS, JP Morgan** etc and in government sector as Junior Engineers.

Social Media Platforms

About the Department of Electrical & Electronics Engineering



The Department of Electrical & Electronics Engineering believes in imparting holistic education, where the student community is the focal point of the learning process. We offer a motivating environment for knowledge assimilation with a sense of social responsibility and human values. The department Undergraduate Program is Accredited by National Board of Accreditation (for second time up-to 2024-2025) and has well qualified and experienced faculty members with specialization in Power systems, Power Electronics, Energy Systems & Management, Computer Applications in Industrial Drives, Bio-Medical Signal Processing & Instrumentation and VLSI Design & Embedded systems. All the laboratories relevant to the program are established as per Visevesvaraya Technological requirement and the department is highly committed to bring-in the state of art laboratories to provide quality education for present challenging societal and industrial needs. We update and associate with training institutes to ensure that our students gain technical, interpersonal and communication skills.

To prepare our students for Industry-ready, the Department has MoU with Vidyut Automation, Innovaskill Technologies, Xponential orbit shifters, which provide Domain Specific Training in the area of Industrial Automation, Embedded system design, Cyber security in Power systems. This enables the students to exhibit their Technical skills in the field of Automation, Embedded system design and Cyber security.

Affiliation



Accreditation



<p>Vision of the College</p> <p>Development of academically excellent, culturally vibrant, socially responsible and globally competent human resources.</p> <p>Mission of the College</p> <ul style="list-style-type: none"> • To keep pace with advancements in knowledge and make the students competitive and capable at the global level. • To create an environment for the students to acquire the right physical, intellectual, emotional and moral foundations and shine as torch-bearers of tomorrow's society. • To strive to attain ever-higher benchmarks of educational excellence 	<p>Vision of the Department</p> <p>To create Electrical and Electronics Engineers who excel to be technically competent and fulfill the cultural and social aspirations of the society.</p> <p>Mission of the Department</p> <ul style="list-style-type: none"> • To provide knowledge to students that builds a strong foundation in the basic principles of electrical engineering, problem solving abilities, analytical skills, soft skills and communication skills for their overall development. • To offer outcome based technical education. • To encourage faculty in training & development and to offer consultancy through research & industry interaction.
<p>Program Educational Objectives (PEO's)</p> <ul style="list-style-type: none"> • PEO1: To produce competent and ethical Electrical and Electronics Engineers who will exhibit the necessary technical and managerial skills to perform their duties in society. • PEO2: To make graduates continuously acquire and enhance their technical and socio-economic skills. • PEO3: To aspire graduates on R&D activities leading to offering solutions and excel in various career paths. • PEO4: To produce quality engineers who have the capability to work in teams and contribute to real time projects. 	<p>Program Specific Outcomes (PSO's)</p> <ul style="list-style-type: none"> • PSO1: Apply the concepts of Electrical & Electronics Engineering to evaluate the performance of power systems and also to control industrial drives using power electronics. • PSO2: Demonstrate the concepts of process control for Industrial Automation, design models for environmental and social concerns and also exhibit continuous self- learning.

Department Activities

A. Faculty Activities

A.1 Faculty Development Programme, AY 2023-24

SL. No.	Name of the Faculty	Title	Date	Organized by
1	Mr. Raghavendra L	Inculcating Universal Human Values in Technical Education	02 nd - 04 th Nov 2023	AICTE
2	Dr. Shakunthala C			
3	Dr. Sathish KR			
4	Mr. Vinod Kumar P			
5	Mr. Shreeshayana R			
6	Ms. Swapna H			
7	Mrs.Swathi CA			
8	Mrs. Kavyashree S			
9	Dr. Sathish KR	Advanced Communication using USRP and LabVIEW	25 th – 27 th September 2023	Department of ECE, ATMECE
10	Mr. Praveen Kumar M			
11	Mr. Shreeshayana R	New Opportunities for Emerging 2D Materials in Bioelectronics and Biosensors	11 th Sep 2023 to 15 th Sep 2023	Department of ECE, CMRIT, Bengaluru

A.2 Workshop, AY 2023-24

SL. No.	Name of the Faculty	Title	Date	Organized by
1	Mr. Raghavendra L	Cyber Security and Digital Forensics	21 st - 25 th Aug 2023	Department of EEE, ATMECE
2	Dr. Shakunthala C			
3	Dr. Sathish KR			
4	Mr. Praveen Kumar M			
5	Mr. Vinod Kumar P			
6	Mr. Shreeshayana R			
7	Ms. Swapna H			
8	Ms.Maria			
9	Mrs.Sowmyashree KS			
10	Ms.Swathi CA			
11	Ms. Kavyashree S			
12	Mr.Shreeshayana R	National Level Symposium on Application of Image Processing Technique in the field of Electronics Communication and Civil Engineering	06/11/2023 - 08/11/2023	Department of ECE & Civil ATMECE
13	Dr.Vinod Kumar P			
14	Dr.Swapna H			
15	Mr.Shreeshayana R	Chatgpt and AI hacks with MS office	25.11.2023	Skill nation
16	Mr.Shreeshayana R	Workshop on Power BI	19.11.2023	Skill nation

A.3 MOOC Certifications

SL No.	Faculty Member	Course Title	Platform	Duration
1	Prof. Shreeshayana R	Swayam -Introduction to Intellectual Property Rights:12 Weeks	NPTEL	12 Weeks OCT 2023
2	Dr. Sathish K R			

A.4 Publications Details: Scopus Indexed/Google Scholar Journals

Sl. No.	Author	Paper Title	Conference/Journal Details	Indexing
1	Dr. Parthasarathy L, Mr. Shreeshayana R	Enhanced Classification of Epileptogenic and Non epileptogenic EEG Signals using ANN-FDM	12th IEEE International Conference on Advanced Computing, ICoAC 2023, IEEE Xplore , Sep 2023	Scopus
2	Mr. Shreeshayana R Mr. Vinod Kumar P	Design and Development of An Automated Fertilizer and Seed Vending Machine for Agricultural Applications	Journal of Data Acquisition and Processing 38 (4), 287-298	Google Scholar

A.5 Industrial Consultancy Services

Department of Electrical and Electronics Engineering is offering consultancy services to Government and industry, private organizations and other external institutions/sources for providing solutions to challenging problems and the amount generated is as follows.

Sl. No.	Name of the Consultant	Name of Consultancy Project	Consulting/ Sponsoring Agency	Revenue Generated (INR In Lakhs)	YEAR
1	Dr. Parthasarathy L Dr. Shakunthala C	1. Consultancy service on Testing of earth pits 2. Testing of 250kVA, 11kV station Auxiliary Transformer IR Value 3. 62.5 kVA D.G. set calibration & routine testing	ELECTRO TECH, Mysuru	Rs.1,24,183/-	Jan-2024

A.6 Research Centre Details

The program has a Research Centre, to pursue Ph.D. The program has registered supervisors under VTU. Research supervisors are responsible for guiding and monitoring the progress of research scholars pursuing Ph.D. or Integrated Ph.D. programs.

Research Centre	Research Supervisor Name
Electrical and Electronics Engineering	Dr. Parthasarathy L
	Dr. Sathish K R
	Dr. Shakunthala C

A.7 Faculty Achievements AY 2023-24

Sl. No.	Year	Activities	Name of the faculty
1	Sep-23	BoE. Member, PESCE Mandya	Dr. Parthasarathy L
2	Jun-23	BoS. SJCE, Mysuru	Dr. Parthasarathy L
3	Jun-23	Academic Council, University of Mysuru	Dr. Parthasarathy L
4	Sep-23	Ph.D Awarded by Jain University	Dr. Vinod Kumar P
5	Dec-23	Ph.D Awarded by VTU	Dr. Praveen Kumar M
6	Dec-23	Appointed as BoE. Member- VTU	Prof. Raghavendra L

B. Student Activities**B.1 Domain Specific Training**

Academic Year	Training Level (DST)	Semester	Duration	No. of Students	Training Institute	Resource Person
2023-24	Embedded System Design, Level-1	IV	50	24	Letspro Academy Mysuru	Mr. Santhosh C Product Engineer
2023-24	Industrial Automation, Level-1	IV	50	25		Mr. Kadhal Perumaan Automation Engineer
2023-24	Embedded System Design, Level-2	V	50	24		Mr. Santhosh C Product Engineer
2023-24	Industrial Automation, Level-2	V	50	28		Mr. Kadhal Perumaan Automation Engineer

B.2 Preplacement Training AY 2023-24

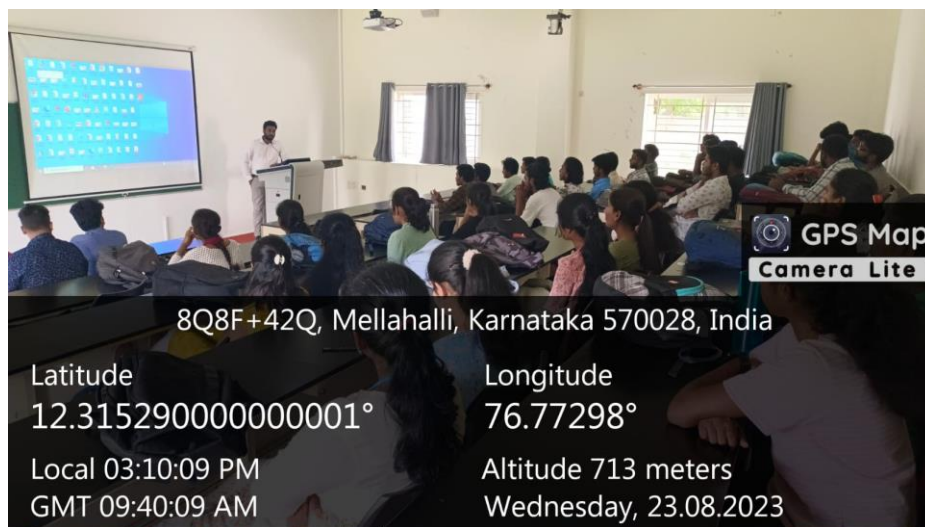
Academic Year	Training Duration	Semester	No. of Students	Training Institute/Vendor
2023-24	9 th Nov 2023 - 17 th Nov 2023	VII	29	Genplus Training & Consulting Service Private Limited

B.4 Technical Talk

Sl No.	Date	Name of the Activity	Association	Participants Semester	No of Participants
1	23-08-2023	Technical Talk on Emerging Trends in Embedded Systems and applications	Quantum	4 th Semester	29 Students
2	23-08-2023	Technical Talk on Emerging Trends in Industrial Automation	Quantum	4 th Semester	23 Students

Technical talk on ‘Emerging Trends in Embedded Systems and Applications’

Department of Electrical and Electronics conducted a technical talk on “Emerging Trends in Embedded Systems and Applications” on 23/08/2023. Resource person Er. Santhosh C, Product Engineer, Letspro Academy, Mysuru, addressed IV Semester Students regarding importance of Embedded System & IoT in any industries for today’s world. Er.Santhosh C. having rich experience in Embedded Systems and IOT) delivered lecture on History of IoT, embedded system in IoT, Types of IoT embedded systems, difference between IoT and embedded systems, The significance of embedded systems in IoT, Examples of non-IoT embedded system devices, The role of embedded system in IoT, IoT computing devices, popular types of IoT embedded system devices such as POS terminals, Vending machines, Ticket scanners, Hardware for an IoT embedded system, Software for an IoT embedded system, Advantages of using Android for an embedded system for IoT, Installation , configure, The Students were able to know Basic & advance knowledge of Embedded system and IOT, He talked about the rising needs of the IoT Embedded System industries and the skills required for IoT Embedded System career, Students of 4th Semester from our department attended this technical talk along with faculty members.



Snapshot: Resource Person Er. Santhosh C during the session with students

Technical talk on ‘Emerging Trends in Industrial Automation’

Department of Electrical and Electronics conducted a technical talk on “Emerging Trends in Industrial Automation” on 23/08/2023. Resource person Mr. Kadhal Perumaan B, Automation Engineer, Dream buzz solutions (Lets Pro Academy), Mysuru, Karnataka, addressed IV Semester students regarding importance of Industrial Automation in any industries for today’s world.

Mr. Kadhal Perumaan B, having rich experience in industrial automation delivered lecture on An Essential Industrial Automation Technology, Industrial Internet of Things (IIoT), Artificial intelligence (AI) in transforming every area of technology, Augmented reality, Virtual reality, current trends in Industrial Automation for use in Manufacturing Industry, He talked about the rising needs of the Automation in industries and the skills required for Automation career students of IVth Semester from our department attended this technical talk along with faculty members.



Snapshot: Resource Person Er. Kadhal Perumaan B during the session with students

B.3 INDUSTRIAL VISIT

The visit to the 66/11kV Substation in KR Nagar Taluk, Mysuru, and 220/66/11 kV Substation Thammadahalli, Hunsur Taluk, Mysuru on December 13, 2023. The purpose of the visit was to gain an in-depth understanding of the infrastructure, operational processes, and technological aspects of this multifaceted substation, which plays a pivotal role in the power distribution network.



Pic: Substation site visit at Mara Gowdan Halli 66/11kV Substation in KR Nagar Taluk, Mysuru

B.5 Social Connect and Responsibility Activity

II Year Students of Department of Electrical & Electronics Engineering visited St. Philomena's Church Mysuru, Karnataka on 06-12-2023, The visit was intended to Provide a Heritage Walk for students to communicate and connect with their surroundings, enable to create of a responsible connection with society.



Pic: Group Photo of 3rd Semester students at St. Philomenas Church, Mysuru



Pic: Group Photo of 3rd Semester students at Horticulture Plantation, Mysuru



Pic: Students were explained on Sewage Treatment plant in the campus



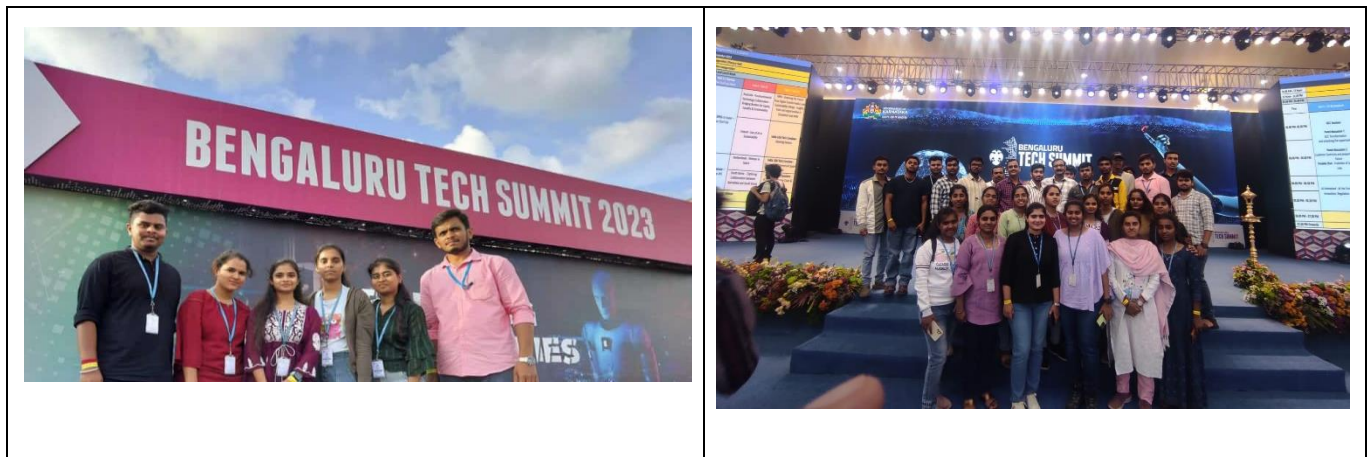
Pic: Students were explained on wet waste management, design, technology and implementation in the campus

B.6 Deputation of Student to Big Tech Show K-Tech Nain, Bengaluru Tech SUMMIT-2023

2nd Year Students of Department of Electrical & Electronics Engineering visited to Bangalore Technology Summit 2023 Exhibition on 29-November-2023 at Bangalore Palace.

The 26th edition of Bengaluru Technology Summit, the three-day annual tech exposition hosted by the Karnataka government, the event organized by the department of IT/BT in association with Software Technology Parks of India (STPI).

The team comprised of Harshith A P(4AD22EE023), Naveen J S(4AD22EE037), Lakshmi K(4AD22EE027), Bhavana R(4AD22EE008), Sneha M(4AD22EE0460, Keerthana H N(4AD22EE024) from 3rd Sem of Department of Electrical & Electronics Engineering



Pic: Group Photo of 3rd Semester students at BTS 2023

About The Bengaluru Tech Summit is a major tech event in India and Asia, promoting international discussions in areas like FinTech, EdTech, Semiconductors, and Biotechnology. Experts share insights on technological advancements and businesses make cross-linkages for growth in IT and BT. Better industry-academia connect, at the event world's leading companies in Information Technology, Electronics & Semiconductors, AVGC, Biotechnology and Deep-Tech impacting many industry verticals may it be Education, Healthcare, Agriculture, Mobility, Logistics, Finance, Telecom and Manufacturing or for that matter governance. presented and unveiling some of the world's most advanced devices and solutions.

B.7 FDP on “Cyber Security & Digital Forensics”

The Department of Electrical and Electronics Engineering, ATME College of Engineering, Mysuru had organized one-week state level FDP on “Cyber Security & Digital Forensics” for the Teaching and Technical Staff of the Institution from 21st to 25th of August 2023 in campus premises.

Day	Resource Person	Topic	Topics Covered
Day 1	Dr. A M Sudhakara, Director, Pas3cyberlabs, Mysuru	Cyber Crime & Cyber Attacks	Discussed cybercrime stories, types of cyber-attacks (Phishing, Vishing, Smishing, cyberstalking, etc.), types of hackers, and the Digital Privacy Protection Act.
Day 2	Dr. Lokesh M R, VCET, Puttur	Block Chain & Digital Forensics	Insights into cryptography, data encryption/decryption, digital signatures, and CARATA approach to cyber fraud.
Day 3	Dr. Chennamma, Associate Professor, JSSSTU, Mysuru	Digital Imaging Forensics	Covered evidence gathering, image editing tools, and detection of forged images using tools like JPEG snoop, Foto Forensics, and Tin eye.
Day 4	Dr. K T Veeramanju, Director, Pas3cyberlabs, Mysuru	Digital & Mobile Forensics	Insights into mobile data recovery, mobile forensics, and the future roadmap of digital forensics.
Day 5	Dr. S P Shivaprakash, Professor, JSSSTU, Mysuru	IoT & IoT Security	Discussed IoT architecture, applications in healthcare/industry, IoT attacks, and security tools like Armis, Forescout, and Zingbox.
Hands on Session[Day1 to Day-4] by Mr.Mahesh Vastrad, Director, Agamys Infotech			



Pic: Mr. Mahesh Vastrad conducting practical hands-on sessions




C. Student Achievements

1. Mr. Vikyath K V (4AD22EE054) won Gold medal in VTU state level Wrestling Championship (70+ KG Category) for the year 2023-24 organized by KLS VEDIT, Haliyal on 20- 21 November 2023.



Mr. Vikyath K V
4AD22EE054

C.2 Semester Toppers ODD SEM, AY 2023-24

III Semester	V Semester	VII Semester
 <p>DHANUVIDYASHREE – 4AD22EE017, SGPA-8.45</p>	 <p>VAISHNAV T A - 4AD21EE020 SGPA:9.32</p>	 <p>Karthick R 4AD19EE009 SGPA- 9.25</p>

News Letter Student Editorial Committee



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