



**A T M E**  
College of Engineering



Department of EEE  
Emitting Elite Energy



# INSPIRE

Electrical and Electronics Engineering

**Bi-Annual  
News Letter**

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**ATME College of Engineering**  
13th km, Mysore – Kanakapura – Bangalore Road, Mysore – 570 028, Karnataka  
Mail Us: [info@atme.edu.in](mailto:info@atme.edu.in)  
Website: <https://atme.in/>

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**Dr. Parthasarathy L,**  
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 student's 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



**Mrs. Swathi C A**  
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 8<sup>th</sup> 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

## CONTENTS

1. Editorial Desk
2. Key Milestones
3. About the Department
4. Department Activities
5. Faculty Achievements
6. Student Activities
7. Student achievements

## KEY MILESTONES

- Ms. Safeena Shazia Secured **8<sup>th</sup> 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 Cyber security 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**, Toyathon 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,**

## 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 Karnataka German Technal Technological Institute, Vidyut Automation, Innovaskill Technologies, Xponential orbit shifters, which provide Domain Specific Training in the area of Industrial Automation and Embedded system design. This enables the students to exhibit their Technical skills in the field of Automation and Embedded system design.

### Affiliation



### Accreditation



<p><b>Vision of the College</b></p> <p>Development of academically excellent, culturally vibrant, socially responsible and globally competent human resources.</p> <p><b>Mission of the College</b></p> <ul style="list-style-type: none"> <li>• To keep pace with advancements in knowledge and make the students competitive and capable at the global level.</li> <li>• 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.</li> <li>• To strive to attain ever-higher benchmarks of educational excellence</li> </ul>	<p><b>Vision of the Department</b></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><b>Mission of the Department</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• To offer outcome based technical education.</li> <li>• To encourage faculty in training &amp; development and to offer consultancy through research &amp; industry interaction.</li> </ul>
<p><b>Program Educational Objectives (PEO's)</b></p> <ul style="list-style-type: none"> <li>• 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.</li> <li>• PEO2: To make graduates continuously acquire and enhance their technical and socio-economic skills.</li> <li>• PEO3: To aspire graduates on R&amp;D activities leading to offering solutions and excel in various career paths.</li> <li>• PEO4: To produce quality engineers who have the capability to work in teams and contribute to real time projects.</li> </ul>	<p><b>Program Specific Outcomes (PSO's)</b></p> <ul style="list-style-type: none"> <li>• <b>PSO1: Apply the concepts of Electrical &amp; Electronics Engineering to evaluate the performance of power systems and also to control industrial drives using power electronics.</b></li> <li>• <b>PSO2: Demonstrate the concepts of process control for Industrial Automation, design models for environmental and social concerns and also exhibit continuous self- learning.</b></li> </ul>

## Department Activities

### A. Faculty Activities

#### A.1 Faculty Development Programme, AY 2024-25

SL. No.	Name of the Faculty	Title	Date	Organized by
1	Dr. Sathish K R	Innovation in Renewable Energy and its Application	9 <sup>th</sup> Sep to 12 <sup>th</sup> Sep 2024	SJCE, Mysuru
2	Mr. Raghavendra L			
3	Dr. Shakunthala C	6 days AICTE-ATAL FDP on Hands on approach for design and implement of Power Converters for Electric Vehicle Application	2 <sup>nd</sup> Sep to 7 <sup>th</sup> Sep 2024	NIE, Mysuru
4	Ms. Maria Sushma S			
5	Dr. Praveen Kumar M	FDP on Advanced Power System Analysis using ETAP	30 <sup>th</sup> Sep to 05 <sup>th</sup> Oct 2024	PESCE, Mandya
6	Mr. Shreeshayana R	Power Electronics Applications in Micro Grid using AI	9 <sup>th</sup> Dec to 14 <sup>th</sup> Dec 2024	Jain (Deemed-to-be) University, Bengaluru
		Data Analytic and Visualization with Power BI and Tableau	9 <sup>th</sup> Sep to 13 <sup>th</sup> Sep 2024	CMRIT, Bengaluru
8	Mrs.Swathi CA	FDP on Research Pathway in EV Technology and Power System	26 <sup>th</sup> Aug to 31 <sup>st</sup> Aug 2024	SJBIT, Bengaluru
9	Mrs. Kavyashree S			

#### A.2 Workshop, AY 2024-25

SL. No.	Name of the Faculty	Title	Date	Organized by
1	Mrs.Sowmyashree K S	Two-Day Hands-on Workshop on Microsoft Excel with AI and Chat GPT	29 <sup>th</sup> Nov to 30 <sup>th</sup> Nov 2024	Scroll-well
2	Ms.Swathi CA			

#### A.3 MOOC Certifications

SL No.	Faculty Member	Course Title	Platform	Duration
1	Dr. Shakunthala C	Swayam - Introduction to Industry 4.0 and Industrial Internet of Things	NPTEL	12 Weeks Jul-Oct 2024
2	Ms. Maria Sushma S			
3	Mrs.Swathi CA			
4	Mrs. Kavyashree S			

#### A.4 Industrial Training:

SL No.	Faculty Member	Training Division	Company	Duration
1	Mr. Shreeshayana R	Product Design, Embedded System Design, IC Design.	Qualcomm, Bengaluru	29 <sup>th</sup> Sep 2024

## A.5 Publications Details: Scopus Indexed/Google Scholar Journals

Sl. No.	Author	Paper Title	Conference/Journal Details	Indexing
1	Dr. Shakunthala C	Voltage regulation and reactive power compensation in EV-PV Grid environment	15 <sup>th</sup> International Conference on Advances in Computing Control and Telecommunication Technologies, pp. 5969-5975	Scopus
2	Mr. Raghavendra L and Dr.Parthasarath L	Analysis of Power Quality in Micro grid Systems with Renewable Energy Integration Utilizing Multi-Signal Discrete Wavelet Transform	International Journal of Renewable Energy Research, Vol.14, No.4, December 2024	Scopus
		Enhancing Power Quality in Microgrids with Integrated Distributed Energy Resources: A Comprehensive Analysis	Journal of Electrical Systems, Vol. 20 No. 3, 2024	Scopus
3	Dr. Sathish K R	A Smart Fire Rescue Bot Using Sensors and Arduino IDE	4th International Conference on Sustainable Expert Systems, ICSES 2024 – Proceedings pp. 33-37	Scopus
		Harmonics and Voltage flicker investigation of different Electric Arc Furnace models on Power Systems	2024 International Conference on Electrical, Electronics and Computing Technologies, ICEECT 2024	Scopus
		Power Quality Evaluation and Improvement in Electric Arc Furnace using UPQC	International Conference on Intelligent Algorithms for Computational Intelligence Systems, IACIS 2024	Scopus
4	Swapna H	The impact of immunotherapy on cancer treatment outcomes: Mechanisms, efficacy, and future directions	Oncology and Radiotherapy	Scopus
5	Mr. Shreeshayana R	GaN/GaN-graphene nanoribbon tunnel FET for bio-sensing	Physica Scripta, 2024, DOI: 10.1088/1402-4896/ad8c01, Impact Factor: 2.93, SJR: 0.441, H-index: 91	Scopus
		Deep Learning for Early Detection of Pneumonia	Frontiers in Health Informatics, 2024, ISSN: 2676-7104, H-index: 7	UGC Care
		Ergonomic Tremor Control Spoon for Parkinson's Disorder	ICCCNT, 2024, DOI: 10.1109/ICCCNT61001.2024.10726044	Scopus
6	Ms. Maria Sushma S	Impacts of Distributed Photovoltaic Units on Distribution System Power Quality	IJCRT Volume 12, Issue 9 <sup>th</sup> Sep 2024 ISSN: 2320-2882	Google Scholar
7	Ms. Kavyashree S	Equivalent Static and Response Spectrum Analysis for Plain Irregular and Composite structures using ETABS	Foundry Journal ISSN: 1001-4977 Volume 27 Issue 8	UGC Care

## A.6 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. 66kV Line Bay 2. 66kV Transformer Bay 3. 66/11kV 8MVA Transformer 4. 11kV Incomer 5. 11kV Feeders 6. Capacitor Bank 7. 66k V Potential Transformer & its Isolator 8. Earth Integrity & Stability 9. Station Auxiliary Transformer 10. ACBD, DCDB, Battery Charger etc	ELECTRO TECH, Mysuru	Rs.2,12,400/-	Aug-2024

## A.7 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. Shakunthala C
	Dr. Sathish K R

**A.8 Faculty Achievements AY 2024-25**

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	March-24	Ph.D Awarded by VTU	Dr. Praveen Kumar M
4	Sep-24	Published a textbook titled “Fundamentals of Smart Grid Technologies and its Applications” by Scientific International Publishing House with ISBN No: 978-93-6674-735-4.	Mr. Raghavendra L , Dr. Sathish K R and Ms. Swapna H
5	Sep-24	Best Teacher Award	Ms. Swapna H
6	Aug-24	Appointed as BoE. Member- VTU	Dr. Shakunthala C

**A.9 Patent Details**

Sl. No.	Author	Paper Title	Patent application no	Status
1	Mr. Raghavendra L	A Novel Deep Learning Based Automated Cyber security System And Method Thereof	202441024310	Published
		Electrical Parameter Measuring Device for Electric Vehicles.	442355-001	Grant

## B. Student Activities

### B.1 Domain Specific Training

Academic Year	Training Level (DST)	Semester	Duration	No. of Students	Training Institute	Resource Person
2024-25	Embedded System Design, Level-1	IV	50	42	Innovaskills, bengaluru	Fathima Reenu Software Developer
2024-25	Industrial Automation, Level-1	IV	50	25	KGTTI, Mysuru	chandrashekar P Senior Engineer
2024-25	Embedded System Design, Level-3	VI	50	24	Innovaskills, bengaluru	Mr. Ravi CEO & Founder
2024-25	Industrial Automation, Level-3	VI	50	28	KGTTI, Mysuru	vishwanathan P Engineer
2024-25	Embedded System Design, Level-2	V	50	42	Innovaskills, bengaluru	Fathima Reenu Software Developer
2024-25	Industrial Automation, Level-2	V	50	25	KGTTI, Mysuru	chandrashekar P Senior Engineer
2024-25	Embedded System Design, Level-4	VII	50	24	Innovaskills, bengaluru	Mr. Ravi CEO & Founder
2024-25	Industrial Automation, Level-4	VII	50	28	KGTTI, Mysuru	chandrashekar P Senior Engineer

## B.2 Preplacement Training AY 2024-25

Academic Year	Training Duration	Semester	No. of Students	Training Institute/Vendor
2024-25	21 <sup>st</sup> Oct – 4 <sup>th</sup> Nov 2024	VII	52	Genplus Training & Consulting Service Private Limited

## B.3 Work Shop

Sl No.	Date	Name of the Activity	Association	Batch	No of Participants
1	12 <sup>th</sup> Dec to 14 <sup>th</sup> Dec 2024	Three Day workshop on LASER CNC cutting and 3D Printing	ISTE	2021-25	52

## B.4 Technical Talk

Sl No.	Date	Name of the Activity	Professional Society/Association	Batch	No of Participants
1	19-09-2024	Membership Drive – II Year	IEEE	2023-27	22 Students
2	29-10-2024	Tech Talk and IEEE Day Celebration	IEEE	2022-26	65 Students
3	18-12-2024	Technical Talk on Design and Automation	Quantum	2023-27	59 Students

### Technical talk on ‘Design and Automation’

Department of Electrical and Electronics conducted a technical talk on “Design and Automation” on 18/12/2024. Resource person Mr. Chandrashekar P Senior Engineer in Electrical Division KGTTI, Mysuru and Ms. Manasa B Engineer KGTTI, Mysuru, addressed III Semester Students regarding importance of Industrial Automation. The session began by highlighting the significance and growing relevance of automation in the field of Electrical and Electronics Engineering. The resource person underscored how automation has become a cornerstone in modern industries, driving efficiency, precision, and productivity. A detailed explanation was provided on how automation integrates seamlessly across various domains, combining the expertise of Electrical, Electronics, Mechanical, and Computer Science disciplines to create cohesive and advanced systems.

The importance of interdisciplinary collaboration was emphasized, as it forms the foundation of successful automation projects, enabling industries to develop innovative solutions for complex

on operations and decision-making processes. The session also delved into career prospects in the automation field, outlining various roles such as automation engineers, robotics specialists, and control systems designers. Career development strategies were discussed, providing attendees with valuable insights into skill-building, certifications, and staying updated with emerging technologies to thrive in this dynamic and ever-evolving industry. This comprehensive approach gave participants a clear understanding of automation's importance, its multi-disciplinary nature, and the exciting opportunities it offers for aspiring professionals.



Snapshot: Resource Person Mr. Chandrasekhar P during the session with students

## **B.5 Social Connect and Responsibility Activity**

The second-year students had an academic visit to the in-house Sewage Treatment and Rainwater Harvesting Plants under the Social Connect Responsibility initiative on 28/09/2024 and 30/10/2024. The program offered technical insights into sustainable water management systems, promoting environmental responsibility and enhancing students' understanding of resource conservation through exposure to practical engineering applications



**Pic:** Students were explained on Seweage Treatment plant in the campus



**Pic:** Students were explained on rain water Harvesting in the campus

### C. Student Achievements

1. Mr. Vikyath K V (4AD22EE054) has secured winner Place in VTU Inter Collegiate Wrestling Men 70 Kg Inter Collegiate state Level Tournament held at Global Academy of Technology from 15.11.2024 to 16.11.2024

Mr. Vikyath K V



4AD22EE054

2. Mr. Harish Kumar G (4AD22EE022)

- Secured First place in Soft Ball, the competition held at SBRR MFGC on 25.11.2024 to 26.11. 2024.
- Secured Third Place in VTU Softball Inter Collegiate held at SJM, Institute of Technology Chitradurga from 13.11.2024 to 14.11.2024.
- Secured Winner Place in VTU softball Men Inter Collegiate Rest of Bengaluru Division Level Tournament held at SJM, Institute of Technology Chitradurga from 11.11.2024 to 12.11.2024.

Mr. Harish Kumar G



4AD22EE022

3. Mr. Harshith A P (4AD22EE023) has Secured Winner Place in VTU softball Men Inter Collegiate Rest of Bengaluru Division Level Tournament held at SJM, Institute of Technology Chitradurga from 11.11.2024 to 12.11.2024.




Mr. Harshith A P



4AD22EE023

## C.2 Semester Toppers

ODD SEM, AY 2024-25

III Semester	V Semester	VII Semester
 <p><b>SACHITH GOWDA S R</b> 4AD23EE034 SGPA-8.88</p>	 <p><b>SINCHANA I M</b> 4AD22EE045 SGPA:9.05</p>	 <p><b>VAISHNAV T A</b> 4AD21EE020 SGPA- 9.24</p>

### News Letter Student Editorial Committee



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V Sem, EEE  
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Mr. Manoj M N  
III Sem, EEE  
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