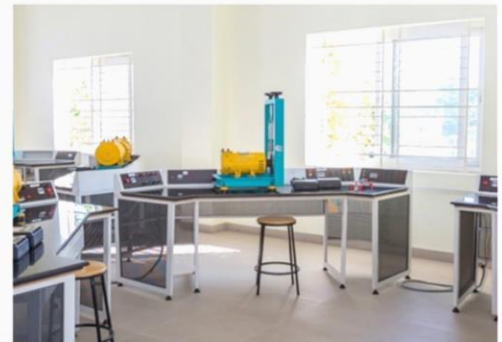


Volume-7 / Issue-1/ July 2022

INSPIRE

Electrical and Electronics Bi-Annual News Letter



“An investment in knowledge pays the best interest.”- Benjamin Franklin

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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 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 & Designer



Lakshmi K,
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ATMECE Mysuru

Student Co-Editor



**Chandan M
V Semester**
Dept. of EEE,
ATMECE Mysuru

Affiliation



Accreditation



About the Department of EEE



The Department of Electrical and Electronics Engineering is started in the year 2010 with an intake of 60 students. Presently about 200 students are on rolls from second to fourth year. The department is recognised as a research centre by Visvesvaraya Technological University (VTU), Belagavi to offer PhD and M Sc (Engg.) programs. The department has well qualified and experienced faculty members with specialization in Power systems, Power Electronics, Energy Systems & Management, CAID, Bio-Medical Signal Processing & Instrumentation and VLSI Design & Embedded systems. All the laboratories relevant to the program are established as per VTU and department is highly committed to bring-in the state of art research laboratories to provide quality education for present challenging societal and industrial needs.

The faculties of the department are associated with professional bodies such as ISTE, IEI and IAENG. The department is involved in the research activities in the areas of EMI/EMC, Power systems. The department has spacious infrastructure with carpet area of 2025 Sq.m, providing sufficient space for lecture halls and laboratories

Vision of the College

Development of academically excellent, culturally vibrant, socially responsible and globally competent human resources.

Mission of the College

- 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

Vision of the Department

To create Electrical and Electronics Engineers who excel to be technically competent and fulfill the cultural and social aspirations of the society.

Mission of the Department

- 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.

Program Educational Objectives (PEO's)

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.

Program Specific Outcomes (PSO's)

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.

Short Term Goals:

- *Leveraging technology for Teaching & Learning Process: Video based Learning, NPTEL & MOOCS.*
- *Professional Body Activities- ISTE, IEI, IEEE*
- *Endeavour to obtain sponsors for Workshops and FDPs.*
- *Encourage the Faculty members to publish papers in reputed International Journals and Conferences.*

Long Term Goals:

- To achieve recognition of excellence in undergraduate education in the fields of Electrical & Electronics Engineering.
- To achieve distinguished academic results.
- To participate in the project sponsored by NGO's, State & Central government bodies.
- Work in close cooperation with industry and professional bodies.

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Course Delivery




The Department ensures effective curriculum delivery through a well-planning and execution. In the department of EEE, TLP continued to be effective through the following modes. The delivery of the sessions was conducted adhering to the academic calendar including for the conduct of CIE.

Delivery Assessment	
Delivery	Assessment
<ol style="list-style-type: none">1. Chalk and talk2. PPT3. Virtual Labs4. MS Teams	<ol style="list-style-type: none">1. Student Response System2. MS Team Form Quiz3. Google Forms Quiz


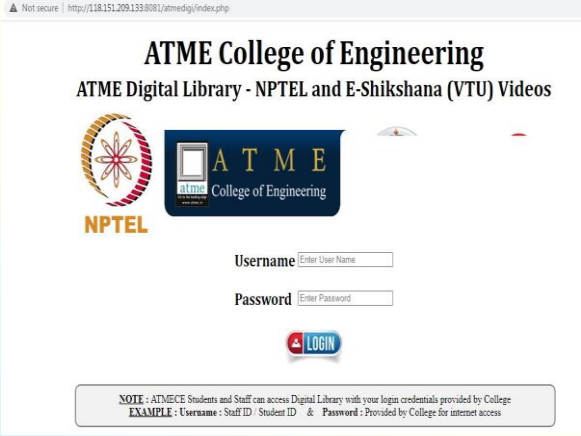
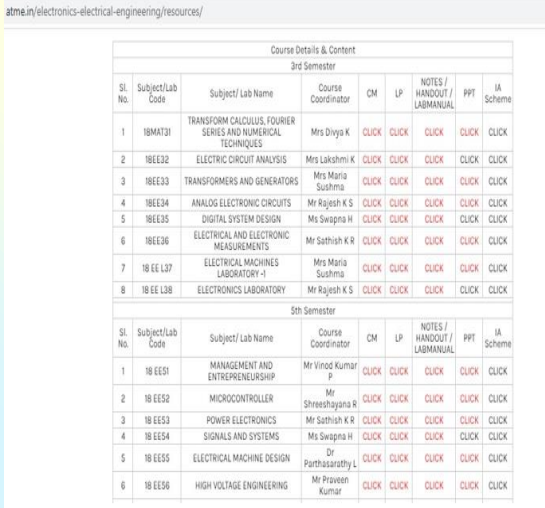
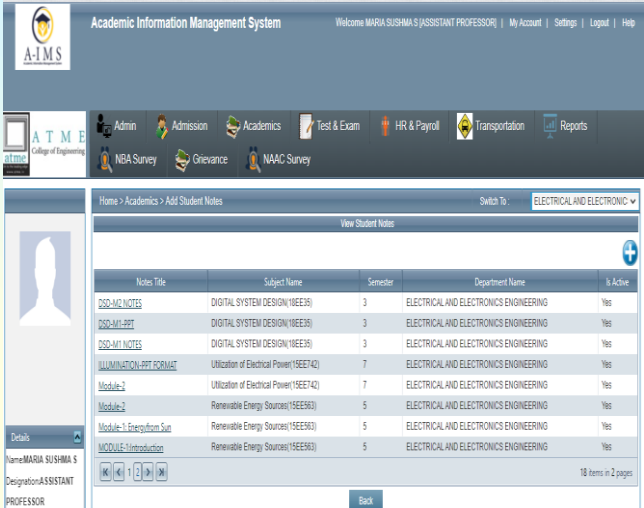
Additional Learning ICT Resources

1. EDUSAT
2. Digital Library
3. Study Materials
4. CERP
5. Flipped Classroom

ICT Assessment

Student Response System	MS Team Form Quiz	Google Forms Quiz
		

Additional Learning ICT Resources

VTU EDUSAT Classroom	Digital Library
	
Study Materials	CERP and Flipped Classroom
	

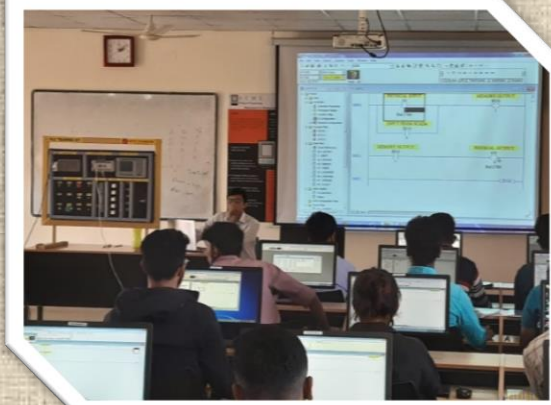
Department Activities

Workshop on “Industrial Automation”

The Department of Electrical & Electronics, ATME College of Engineering, Mysuru had organised a **“Three Days Workshop on Industrial Automation”** from 27th to 29th December 2021 in campus for Pre-Final Year students.”

Dr. Parthasarathy L, HoD, Department of EEE, addressed the students and said it is important to upgrade skillset to explore the challenges and opportunities in Industries. Further, he emphasized the need of skill enhancement certification which shall be verified by accreditation bodies for outcome-based education.

Resource Person, Mr Shashi Kiran, Director, Viduyth Automation, Mysuru started the session and explained AutoCAD, PLC, SCADA & HMI.



Workshop on “Embedded System”

The Department of Electrical & Electronics, ATME College of Engineering, Mysuru had organised a **“Two Days Workshop on Embedded System and Industrial Automation”** from 03rd to 04th December 2021 in campus for Final Year students. The event was organised with an objective to make the students familiar with Embedded systems and Industrial Automation its applications.

7th semester undergone the hands-on training on “Embedded systems and Industrial Automation” for 2-days conducted by Innovaskill Technologies Private Limited .



Industry Visit to Bharat Earth Movers Limited (BEML), Mysuru

The Department of Electrical & Electronics Engineering had organised Industrial visit to BEML (Bharat Earth Movers Limited) for EEE students on 14th December 2021 in order to provide a practical exposure of earthmoving equipment includes bulldozers, dump trucks, hydraulic excavators, wheel loaders,



Technical Talk on ‘Automation for Industrial application’

. The Department of Electrical & Electronics Engineering conducted a technical talk on “Automation for Industrial Application” on November 24th 2021. Mr Shashikiran M, Managing director from Vidyt Automation, Mysuru addressed Pre-final year students regarding importance in any industries for today’s world.



Social Responsibility Activity

SWACHH BHARATH ABHIYANA

• **Purpose:** The Ministry of Union Human Resource Development sent a call for participation from all colleges in “SWACHHTA ABHIYANA” for spreading the message of cleanliness not only among the students but also in the surrounding areas.

• **Report:** In this regard, the NSS volunteers are cleaned Dinka village and cleaned around dinkadamma temple

• **Review:** All the students participated very enthusiastically in this programme along with many municipal corporation personnel

• Photos:



TREE PLANTATION PROGRAM

• **Purpose:** NSS Unit of ATME College has organized Plantation program on 12-03-2020 in the in the Dinka village, It has to be a combined mission of all mankind to plant more trees in order to save our ailing planet. Thus, we have our global Tree Plantation Day which is celebrated on 21st March all over the world

• **Review:** The plantation of 73rd saplings by the elected members of the Village Panchayat and the student volunteers inside the premises of the school was the high light of this day to represent the 73 rd Independence Day of our nation

• **Review:** All the students participated very enthusiastically in this programme along with the members of the Village Panchayat and NSS volunteers taken up the work and planted 73 plants



Student Achievements:

Academic Toppers

III Semester



***KARTHIK R- 4AD20EE009
SGPA- 9.29***



***AATHIQA FATHIMA KHANUM -
4AD20EE001
SGPA- 8.26***

V Semester



***KAVYA G – 4AD19EE007
SGPA-9.2***



***CHANDAN M – 4AD19EE005
SGPA-8.36***

VII Semester



***PRAVEEN GOWDA S B - 4AD18EE022
SGPA- 9.4***



***AISHWARYA M-4AD18EE003
SGPA- 8.95***

Mr. PRAJWAL S - 4AD19EE419, Student of ATME College of Engineering, Mysuru has actively participated and secured “I Place in Track 2” in the event “Paper Presentation” as a part of online 2021 IEEE PES Student Congress on “ Innovations in Electric Vehicle Sector” organized by the Department of Electrical and Electronics Engineering, NMAM Institute of Technology, Nitte in association with IEEE PES Bangalore Chapter during 17-18 December 2021, under the guidance of Mrs Lakshmi K Assistant Professor, Department of Electrical & Electronics Engineering.



Funding by Karnataka State Council for Science and Technology (KSCST)

KSCST-List of projects selected under 45th Series of Student Project Program for the year 2021-22

SL. No.	Ref Code	Title	Name of the Students	Project Guide(s)
1	45S_BE_4433	DESIGN AND DEVELOPMENT OF AUTOMATIC BOOK SCANNING MACHINE	Ms. MISBAH AFSHEEN Mr. SYED DANISH Mr. SALMAN AHMED	Ms. MARIA SUSHMA S
2	45S_BE_3351	DESIGN AND DEVELOPMENT OF SMART WIRELESS CHARGING FOR ELECTRIC VEHICLE	Ms. GAGANA S Mr. ADITHYA K S Ms. GOWTHAMI H S	Mr. RAGHAVENDRA L

Faculty Publications and Achievements

Journals/ Conferences	International	National	Total
Journals	42	-	42
Conferences	29	10	39

Membership of Professional Society

The teaching staff are members of various professional societies including IEEE, MIE, AMIE, ISTE, IAENG.

Research and Consultancy

MOU with M/s. TPC Techno Power Corporation LLP

The Department of Electrical & Electronics Engineering, ATME College of Engineering, Mysuru and M/s. TPC Techno Power Corporation LLP, Bangalore, Karnataka, signed a Memorandum of Understanding (MOU) on 21st Feb-2018.

About TPC Techno Power Corporation LLP

M/s. TPC Techno Power Corporation LLP (TPCLLP) is established in the year 2003 and counted amongst the prominent manufacturers and suppliers of a wide assortment of Transformers. It is in approval with KPTCL & ESCOM's in Karnataka and Central Power Research Institute (CPRI). TPC offer, electrical transformers, electronic transformers, furnace transformers, power transformers, rectifier transformers, booster transformers, dry type transformers and distribution transformers

Skill Development Programs: TPC to train the students of ATMECE on the emerging technologies in order to bridge the skill gap and make them industry ready.

Industrial Internship & Visits: Industry and Institution interaction will give an insight in to the latest developments / requirements of the industries; the TPC to permit the Faculty and Students of the ATMECE to visit its group companies and also involve in Industrial Training & Internship Programs for the ATMECE. The industrial training and internships provided to students and faculty through this association will build confidence and prepare the students to have a smooth transition from academic to working career. The TPC will provide access to its Design Centres / Workshops / Testing facilities for the hands-on training of the learners enrolled with the ATMECE.

Consultancy Area	Consultancy Period	Name of the Expert
Transformer Design and Validation	3 Years	Dr. Parthasarathy L, Prof and Head, Dept of EEE, ATMECE

MOU with Innovaskill Technologies

The Department of Electrical & Electronics Engineering, ATME College of Engineering, Mysuru and **Innovaskill Technologies**, Bangalore, Karnataka, signed a Memorandum of Understanding (MOU) on September 2021.

Objectives is to make students competent enough to take on real time application work / Industrial Internship/Domain Specific training in the field of Embedded Systems, Electronic Design Automation, Industrial Automation, Solar Installation, IT software development, Digital Marketing, Information & Network Security to reduce the gap between Industries and Engineering Institution and Placement assistance, Industrial Visit and Expert Lecture.

MOU with Vidyut Automation

The Department of Electrical & Electronics Engineering, ATME College of Engineering, Mysuru and **Vidyut Automation**, Mysuru, Karnataka, signed a Memorandum of Understanding (MOU) on August 2021.

Patents from the department

Patent Application Publication, India			
Title	Date of filing of application	Publication Date	Name of the Applicant/Inventor
Risk Combating Personal Protection Equipment	---	15/02/2022	Dr.Parthasarathy L <i>Professor and HoD</i> Mr.Shreeshayana R <i>Assistant Professor</i>
Machine Learning & IoT based Renewable Energy in Smart Grid.	07/06/2022	---	Mr Raghavendra L <i>Associate Professor</i>
Iot Based Wearable Device And System For Assisting Neurologically Affected Patients	15/02/2022	25/02/2022	Ms Swapna H <i>Assistant Professor</i> Yaseen Ulla Khan <i>Student</i> Bharath S <i>Student</i>



Training and Placement

Placement training plays a major role in shaping up the career goals of students. The Training Division of the ATMECE Placement Cell offers training with a vision to cater to the requirement of industries. Training etiquette like Business English, Personality Development, logical & verbal analysing ability, Group Discussion, Resume writing etc are expected from graduates. Keeping this key aspect into consideration, it is realized that training is important to create an exposure, enhance skillset, build confidence amongst engineering students to enhance their employability and achieve good placement in various Industries. Business English is currently covered in the Ist Year of the Program as part of the curriculum. Remaining etiquette are offered through Training vendors and In-House Trainers.

<p>Aptitude Verbal & Reasoning (AVR) Training 32 Hours Annually</p>	<p>In-House AVR Training is offered to address aptitude test failures and train students on analytical, logical, verbal, and critical reasoning</p>	<p>II and III Year</p>	<p>In House Faculty Members</p>
<p>Pre-Placement Training (GD, Aptitude revision, Soft skills, Resume writing, Personality skills, Mock Interview) About 40 Hours</p>	<p>Pre-Placement Training is offered to students covering all etiquette before the students formally enter the placement recruitment process.</p>	<p>IV Year</p>	<p>Seventh Sense Talent Solutions</p>



AVR Overview

Sl.No.	Course	Course Code	Semester	Teaching Hours/Semester	Assessment Hours/Semester	Total Hours/Semester
1	Aptitude Verbal & Logical Reasoning-I	ATME_AVR_01	III	12	4	16
2	Aptitude Verbal & Logical Reasoning-II	ATME_AVR_02	IV	12	4	16
3	Aptitude Verbal & Logical Reasoning-III	ATME_AVR_03	V	12	4	16
4	Aptitude Verbal & Logical Reasoning-IV	ATME_AVR_04	VI	12	4	16

Link to Virtual Campus Tour : <http://surl.li/aoowi>