



SURESH ANGADI EDUCATION FOUNDATION'S

## **ANGADI INSTITUTE OF TECHNOLOGY AND MANAGEMENT**

Savagaon Road, Belagavi – 590 009.

Approved by AICTE, New Delhi & Affiliated to Visvesvaraya Technological University, Belagavi

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### **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

# Technical Magazine

# *Power and Pulse*

## Create to Control



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### **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

## **Principal & Director Message**



### **Dr. Anand Deshpande**

An Institute is assessed on the basis of the Academic ambiance and outcome of the system in terms of performance and achievements of the students and staff in teaching-learning, research, innovation, Placements, and results. AITM has been known for its Academic credentials coupled with holistic growth in all directions. The new generation of competent minds must imbibe knowledge and practically they should comprehend the art of balancing brilliant technical, managerial communication, and interpersonal skills, nest. The Institute has achieved a series of milestones with the help of brilliant students, dedicated staff, and encouraging Management. We promise a wonderful experience of rich Academic and Excellent facilities coupled with professional practices and blended with an affectionate concern for our students.

## **INSTITUTE VISION AND MISSION**

### **VISION:**

To become a premier institute committed to academic excellence and global competence for the holistic development of students.

### **MISSION:**

**M1:** Develop competent human resources, adopt outcome-based education (OBE) and implement cognitive assessment of students.

**M2:** Inculcate the traits of global competencies (such as domain expertise, Accountability, ethics, problem solving ability, communication skills, leadership Qualities and life-long learning) amongst the students.

**M3:** Nurture and train our students to have domain knowledge, develop the qualities of global professionals and to have social consciousness for holistic development.



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#### **HOD Message**



The Department of Electrical & Electronics Engineering was established in the year 2009 and offers four-year degree course leading to Bachelor degree in Electrical & Electronics Engineering affiliated to Visveswaraya Technological University, Belgaum. The Department aims at producing well qualified Engineers for the nation and also across the globe. The Department has eminent faculty with wide range of experience in research, teaching, training and field experience which will help the students to gain practical knowledge which is very essential for their future endeavors. The department has excellent industry institute interaction and provides services like consultancy, design and testing to the industries. Since the commencement of the program, the department has made sincere efforts in the development of students through training and industrial visits. Also, the Department has formed Student Association (AEEES) to promote the student's talent and department library for student reference.

#### **DEPARTMENT VISION AND MISSION**

##### **Vision of the Department**

To illuminate the world by empowering our students with domain knowledge and relevant skills to be globally competent.

##### **Mission of the Department**

**M1:** Create an environment that imparts knowledge in Electrical & Electronics Engineering through effective pedagogical approaches.

**M2:** Inculcate both curriculum-based and beyond-curriculum practical skills, problem-solving abilities and innovative thinking.

**M3:** Instil professional practices, ethical values, teamwork and leadership skills to contribute effectively to the global engineering community.



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### **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

#### **Editor's Overview:**

The Editorial Team is delighted to present the First Edition of the Electrical and Electronics Department Magazine, POWER & PULSE. This inaugural issue marks an important milestone in our department's journey toward academic excellence, innovation, and knowledge dissemination.

This edition highlights the noteworthy achievements of our students, showcasing their academic accomplishments, innovative projects, internships, and technical initiatives. Their dedication, creativity, and commitment to engineering excellence reflect the strong academic foundation and progressive learning environment of our institution. The magazine also features insightful contributions from our esteemed faculty members, presenting ongoing research work, scholarly articles, and perspectives on emerging technologies shaping the future of mechanical engineering.

POWER & PULSE is envisioned as a platform to encourage intellectual exchange, foster collaboration, and inspire the next generation of engineers. Through this publication, we aim to strengthen the academic bond among students, faculty, and alumni while promoting research culture, innovation, and professional growth.

The Editorial Team expresses sincere gratitude to all contributors—students, faculty members, and staff—whose dedicated efforts made this first edition possible. We also thank our readers for their encouragement and continued support.

We extend our best wishes to our students for success in their academic and professional endeavors and acknowledge our faculty members for their constant guidance, mentorship, and commitment to excellence. We hope this inaugural edition of POWER & PULSE proves to be informative, inspiring, and enriching.



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### **DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING**

#### **PARICHAYA**

#### **Inauguration of Association of Electrical & Electronics Engineering.**

PARICHAYA 2K25 !!The inaugural function of the Association of Electrical and Electronics Engineering Students – PARICHAYA 2k25 and the Fresher's welcome was organized by the Department of Electrical and Electronics Engineering at Angadi Institute of Technology and Management (AITM), Belagavi, on Wednesday, November 5th, 2025. Mr. Raju Y. Mane, Area Head of Electrical & Instrumentation, Hindalco Industries, Aditya Birla Group, Belagavi, was the chief guest for the function. Dr. Anand B. Deshpande, Principal and Director of AITM, Prof. Raviraj Chougala, HoD of EEE, Prof. Rajendra Ghivari, Association Co-Ordinator and students Mr. Anand Mali, Mr. Shubham Biradar, and Ms. Preeti B., coordinators of AEEES, presided over the event. Ms. Vaishali R. performed the welcome dance, and Ms. Shweta Doddannavar and her group performed the welcome song, followed by a welcome speech by Ms. Chaitra M. Petkar.



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING****Exhibition of Capstone and Student Projects**

Angadi Institute of Technology and Management, Belagavi, through the Department of Electrical and Electronics Engineering, organized a Capstone Project Exhibition for Final Year students and a Project Exhibition for Pre-Final Year students on 11/12/2025. The exhibition provided a platform for students to showcase their innovative project ideas, practical skills, and technical knowledge acquired during the course of their study. The event encouraged creativity, problem-solving abilities, and the application of theoretical concepts to real-world engineering challenges. The Capstone Project Exhibition and Project Exhibition were formally inaugurated by Dr. Gururaj R. Udupi, Professor, Department of Electrical and Electronics Engineering, AITM, and Dr. B. T. Sureshbabu, Professor, Department of Civil Engineering, AITM. The inauguration was also attended by Prof. Raviraj Chougala, Head of the Department, Electrical and Electronics Engineering, AITM, Prof. Kantesh D. C., Project Coordinator, EEE, Prof. Rajendra Ghivari, Association Coordinator, EEE, along with the faculty members of the Department of Electrical and Electronics Engineering.





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## INGENIOUS-2025

### National-Level Technical Project Competition

Belagavi, 28th February 2025: Suresh Angadi Education Foundation's (SAEF) Angadi Institute of Technology and Management (AITM), Belagavi, successfully organized a National-Level Technical Project Competition – “INGENIOUS-2025” on the occasion of National Science Day. The event aimed to provide a platform for students to showcase their innovative projects and unleash their creative potential in the field of engineering and technology. The competition witnessed an overwhelming response, with more than 165 projects and participation of over 700 students from various engineering disciplines across India. The students exhibited great enthusiasm and technical prowess, making the event a grand success.

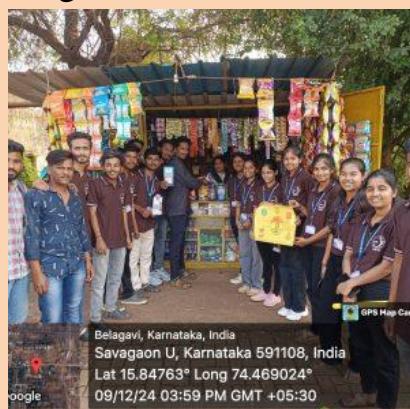


**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING****AICTE Activities**

The Electrical & Electronics Engineering students had a valuable opportunity to engage with the community through the AICTE activity point program. Such initiatives not only provide practical experience but also foster a broader understanding of societal needs and challenges, which are crucial for future engineers. In visiting Kanbargi village and Machhe, Belagavi, the students likely gained insights into the practical applications of their field within a real-world context. Understanding the needs and lifestyle of the villagers, who primarily rely on agriculture, would have given them a perspective on how their skills and knowledge can be applied to address local challenges.

The following Activities are conducted as Follows:

- Swach Bharat
- Energy Consumption
- Digital Transaction
- Awareness of Tourism
- Awareness on importance of higher education





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### VENCER 2k25 (Techno-Cultural Fest)





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### DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

#### Green Energy Club Activity

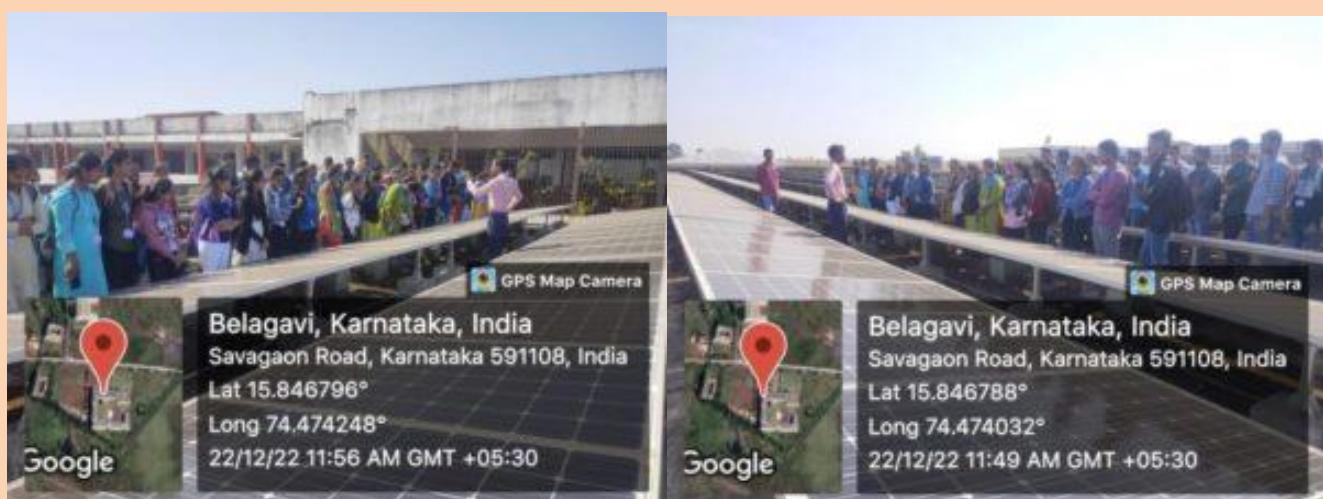
##### 1. Solar and Wind Energy:

As a part of academic on field presentation event is conducted for First Year Students of Department of Electrical & Electronics Engineering and Department of Electronics & Communications Engineering on “**Solar & Wind Energy**” by Prof. Kantesh D C From Department of Electrical & Electronics Engineering AITM Belagavi.



##### 2. Renewable Energy and its Applications:

As a part Social Connect and Responsibility the event is organized for Computer Science Engineering students on “**Renewable Energy and its Applications**” by Prof. Kantesh D C , Department of Electrical and Electronics Engineering AITM Belagavi.



**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING****3. Internship Activity:**

Internship activity conducted on Energy Source and Importance of Earthing. By the Department of Electrical and Electronics Engineering and Department of Electronics and communication Engineering Aitm organized various events for the students of 3rd semester EEE and EC department as a part of internship these events help students to explore and enhance that technical skills showcase their talent in cultural and technical events and boost their confidence communication and interpersonal skills. Faculty of EEE Department Prof. Kantesh D C & Prof. Rajendra Ghivari Conducted the Event Successfully.

**4. Solar Energy:**

As a part of internship, the event is organized for civil engineering students on “**Solar Energy**” by Prof. Kantesh D C , Department of Electrical and Electronics Engineering AITM Belagavi.

