

7<sup>th</sup> INTERNATIONAL CONFERENCE  
on  
**ENERGY, CONTROL, COMPUTING  
AND ELECTRONIC SYSTEMS**  
**ICECCES-2025**

**ARTIFICIAL INTELLIGENCE**  
IN NEXT-GENERATION POWER AND ENERGY STORAGE SYSTEMS

5<sup>th</sup>- 7<sup>th</sup> November 2025



## ABOUT MBU

Mohan Babu University, situated in Tirupati, Andhra Pradesh, India, is a State Private University founded by Sree Vidyanikethan Educational Trust under the leadership of Padma Shri Dr. M Mohan Babu, a philanthropist, former Rajyasabha Member, producer, and cine artist. The University promotes excellence in various fields such as Engineering, Pharmacy, Liberal Arts and Science, Agriculture, Art and Design, Media Studies, Film Academy, Paramedical and Health Sciences. With a 5-star rated campus, advanced curriculum, expert mentorship, and 65+ clubs. MB School of Engineering and MB School of Computing (Erstwhile Sree Vidyanikethan Engineering College) has achieved notable accreditations which includes,

## RANKINGS AND ACCREDITATIONS



Boasting a robust placement record, including a remarkable package of Rs. 60 lakh offered by Google, the university also actively mentors other engineering colleges.

**To foster Research, Innovation and Entrepreneur, MBU has the following**

DST-STI Hub  
worth of  
**3.61**  
Crores

AICTE-IDEA  
Lab worth of  
**1.1**  
Crores

V-Hub,  
Innovation  
Centre





# DEPARTMENT OF EEE

The Department of EEE at MB School of Engineering (Erstwhile Sree Vidyanikethan Engineering College) was established in 1996, initially offering B.Tech (EEE) with 60 seats. Over time, the Department has expanded its intake to 120 seats, including 20% additional seats under the lateral entry scheme. Currently, the department offers three undergraduate programs: B.Tech in Electrical and Electronics Engineering, B.Tech in Electrical and Electronics Engineering with specialization in High Voltage Engineering and Power Systems, and B.Tech in Electrical and Electronics Engineering with specialization in Automotive Electronics. It also provides a postgraduate program in Electrical Power System and a Doctoral Program. With the highly qualified faculty, including 17 PhD holders, the Department is well-equipped with advanced laboratories and a dedicated research center called the "Applied Renewable Energy Research Center."

## ABOUT THE CONFERENCE

The 7th International Conference on "Energy, Control, Computing, and Electronic Systems" (7th ICECCES 2025) with a theme "Artificial Intelligence in Next-Generation Power and Energy Storage Systems" aims to unite academic and industrial experts in a collaborative environment.





This conference aims to bring together researchers, academicians, industry professionals, and policymakers on a common platform to explore how Artificial Intelligence (AI) can revolutionize modern power and energy systems. As the global energy sector moves towards clean, sustainable, and smart solutions, AI technologies such as machine learning, deep learning, and reinforcement learning are becoming critical tools for improving the generation, storage, distribution, and consumption of energy. This conference will focus on a wide range of applications, including smart grids, renewable energy integration, energy storage optimization, demand-response systems, predictive maintenance, cybersecurity, and smart machines. By facilitating interdisciplinary dialogue and showcasing cutting-edge innovations, the conference aims to accelerate the development and adoption of AI-driven energy technologies. It will serve as a knowledge-sharing platform for the exchange of ideas, research outcomes, case studies, and best practices. The conference will also emphasize skill development, global collaboration, and data-driven policy formulation, all while supporting international sustainability goals. ICECCES 2025 is committed to fostering real-world impact through high-quality research publications, industry-academia collaboration, and strategic decision-making frameworks that drive the energy sector toward a more intelligent and sustainable future.

## **The objectives of the Conference:**

**To explore and promote the use of Artificial Intelligence in modern power and energy storage systems for improved efficiency, reliability, and sustainability.**

---

**To develop intelligent solutions for integrating renewable energy sources and addressing challenges such as grid stability and energy variability.**

---

**To advance the design of smart grids and microgrids using AI technologies to enhance energy distribution, monitoring, and control.**

---

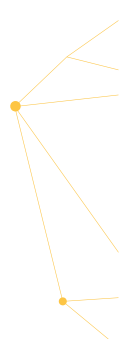
**To optimize the performance of energy storage systems through AI-based predictive maintenance, battery health monitoring, and operational efficiency.**

---

**To foster collaboration between academia, industry, and policymakers for the practical adoption of AI-driven innovations in the energy sector.**

---

**To offer platform for researchers to publish their work and provide a reference for future research.**





# CALL FOR PAPERS

Original research papers are invited in the areas, but not limited to

- Artificial Intelligence and Machine Learning Applications in Power Systems
- Smart Grids and Microgrids
- Energy Storage Systems and Battery Management
- Renewable Energy Integration (Solar, Wind, etc.)
- Power Electronics and Electric Drives
- Intelligent Transportation System
- Predictive Maintenance and Fault Detection using AI
- Deep Learning and Reinforcement Learning in Energy Systems
- Internet of Things (IoT) and Embedded Systems for Smart Energy
- Cybersecurity in AI-Enabled Power Systems
- Smart Meters, Sensors, and Data Analytics
- Control Systems and Automation in Energy Applications
- High-Performance Computing in Energy Forecasting
- Blockchain for Energy Transactions and Grid Security
- AI in Energy Economics and Policy Modeling
- Hybrid and Intelligent Energy Storage Solutions
- Electromagnetic Interference and Energy System Reliability
- AI for Electric Vehicle Charging Infrastructure and Management
- Digital Twins in Power System Monitoring and Optimization
- Human–Machine Interface for Energy Management
- AI-Driven Load Forecasting and Demand-Side Management
- Intelligent Power System Protection and Stability Analysis
- Data-Driven Grid Restoration and Blackout Prevention
- Hydrogen generation and its applications
- AI Applications in Distributed Energy Resources (DERs)
- Edge and Cloud Computing for Smart Energy Systems
- Sustainable Energy Solutions using Smart Technologies

## CONFERENCE COMMITTEE

### Chief Patrons

**Dr. M. Mohan Babu,**  
Chancellor, MBU

**Mr. Vishnu Manchu,**  
Pro-Chancellor, MBU

#### Patrons

**Mr. Vinay Maheswari,**  
Executive Director, MBU

---

**Prof. Nagaraj Ramarao,**  
Vice-Chancellor & Provost, MBU

---

**Mr. Vikas Singh**  
CGSO, MBU

---

**Dr. K. Saradhi**  
Registrar, MBU

#### Advisors

**Dr. Avireni Srinivasulu,**  
Dean, R & I, MBU

---

**Dr. P. V. Ramana,**  
Dean, Academics, MBU

---

**Dr. T. Devaraju,**  
Dean, DSA, MBU

---

**Dr. M. S. Sujatha,**  
Professor & Head, EEE, MBU

#### Conveners

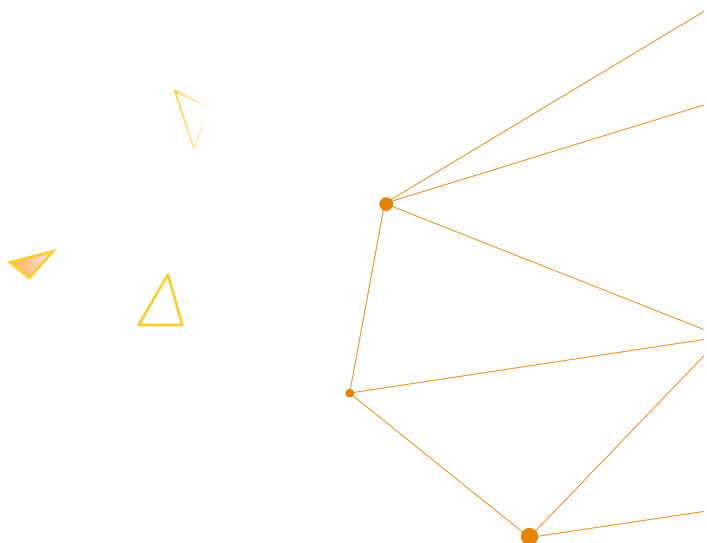
**Dr. S Prabhu,**  
Associate Professor, EEE, MBU

---

**Dr. V Arun,**  
Professor, EEE, MBU

#### Organizing Secretary

**Dr. E. Parimalasundar,**  
Professor, EEE, MBU



## INTERNATIONAL ADVISORY COUNCIL

**Dr. Jiri Pinker,**  
University of West Bohemia,  
Pilsen, Czech Republic

---

**Dr. Cristian Raveriu,**  
Politehnica University of  
Bucharest, Romania

---

**Dr. Nicu Bizon,**  
University of Pitesti, Romania

---

**Prof. Herman Vermaak,**  
Central University of Technology,  
Free State, South Africa

**Prof. Celia Shahnaz,**  
Bangladesh University of Engineering  
and Technology, Bangladesh

---


**Dr. Ramesh C.**  
Bansal, University of Sharjah,  
Sharjah, UAE

---

**Dr. Raj Naidoo,**  
University of Pretoria, South Africa

---

**Dr. Arvind R. Singh,**  
Hanjiang Normal University, China



**Prof. Lidia Dobrescu,**  
Politehnica University of Bucharest,  
Romania.

**Dr. Philibert Nsengiyumva,**  
University of Rwanda, Rwanda

**Ing. Radek Holota,**  
University of West Bohemia,  
Pilsen, Czech Republic

**Dr. Nebojsa Bacanin Jacula,**  
University of Serbia, Serbia

**Dr. Geno Peter,**  
University of Technology,  
Sarawak, Malaysia

**Dr. Samat Iderus,**  
University of Technology,  
Sarawak, Malaysia

**Dr Manimuthu Arunmozhi,**  
Aston University, UK

---

## NATIONAL ADVISORY COUNCIL



**Dr. K. Shanti Swarup,**  
IIT-M, Chennai, Tamil Nadu

**Dr. K. Siva Kumar,**  
IIT-H, Hyderabad, Telangana

**Dr. Preetham Kumar,**  
IIT-P, Patna, Bihar

**Dr. K. Vijay Bhaskar,**  
IIT, Dhanbad

**Dr. R. Anand,**  
NIT, Tiruchirapalli, Tamil Nadu

**Dr. Shelas Sathyan,**  
NIT Tiruchirapalli, Tamil Nadu

**Dr. A. V. Giridhar,**  
NIT, Warangal, Telangana

**Dr. Vivekanandan.S,**  
NIT Silchar, Assam

**Dr. Irfan Ahmed,**  
NIT Durgapur, West Bengal

**Dr. S. Murugan,**  
NIT, Rourkela, Orrissa

**Dr. T. Ghose,**  
Birla Institute of Tech., Ranchi

**Dr. Noor Mahammad Sk,**  
IIITDM, Tamil Nadu

**Dr. Chakkarapani Manickam,**  
Assam Energy Institute, Assam

---

## INDUSTRIAL TECHNICAL COUNCIL

**Mr. Gopal Halder,**  
AUPTC, Gurgaon India

**Dr. R. S. Shivakumara Aradhya,**  
CPRI, Bangalore

**Dr. Chandranath Battla,**  
Congnizant Technology Solutions,  
Chennai,



**Mr. G. Naga Babu,**  
Fiat Chrysler Automotive India Pvt. Ltd,  
Chennai

**Mr. Buchi Babu Daram,**  
Mulk International, Sharjah, UAE

**Mr. Seshasai Kumar P,**  
Rolls-Royce-Electric, Singapore

**Ms. Nikhila Gopati,**  
Siemens Energy, Germany

**Ms. Saritha Koneru,**  
JP Morgan Chase, Columbus

**Mr. Hareesh Kumar,**  
Hitachi Energy, Chennai

**Mr. Mohammed Haneef,**  
GE India Tech. Centre Pvt. Ltd,  
Bangalore

**Mr. M. V. S. S. D. Sree Vastav,**  
Alstom, Bangalore

## COORDINATOR

**Dr. V. Nandagopal,**  
Professor, EEE, MBU

## PUBLICATION COMMITTEE

**Dr. T. Rajasekar,**  
Associate Professor, EEE, MBU

## WEBSITE & MEDIA COMMITTEE

**Dr. D Suresh Babu,**  
Professor, EEE, MBU

## TECHNICAL COMMITTEE

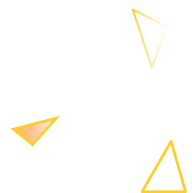
**Mr. B.Venkata Sai Thrinath,**  
Assistant Professor, EEE, MBU

## REGISTRATION COMMITTEE

**Dr. G. Harikrishnan,**  
Associate Professor, EEE, MBU

## FINANCE COMMITTEE

**Dr. S. Farook,**  
Professor, EEE, MBU



## HOSPITALITY AND ACCOMMODATION COMMITTEE

**Dr. B. Hemanth Kumar,**  
Associate Professor, EEE, MBU

## RECEPTION COMMITTEE

**Mrs. G. S. Bharathy,**  
Assistant Professor, EEE, MBU

## STAGE MANAGEMENT COMMITTEE

**Dr. M. Manohara,**  
Associate Professor, EEE, MBU

## CATERING/FOOD COMMITTEE

**Dr. I. Kumaraswamy,**  
Associate Professor, EEE, MBU

## VOLUNTEER AND STUDENT COORDINATION COMMITTEE

**Dr. P. Venkatesh,**  
Assistant Professor, EEE, MBU

## SECURITY AND SAFETY COMMITTEE

**Dr. D.V.V Sudarsan Reddy,**  
Assistant Professor, EEE, MBU

## FEEDBACK AND CERTIFICATE COMMITTEE

**Dr. C. Ganesh,**  
Professor, EEE, MBU

## TRANSPORT AND LOGISTICS COMMITTEE

**Dr. N.M.G Kumar,**  
Professor, EEE, MBU



## REGISTRATION FEES

Registration Fee (inclusive of GST)	Students	Academic/Research Scholars	Industry
Participants from India	INR 1000	INR 1500	INR 2000
Participants from abroad	USD 50	USD 150	USD 150

All accepted and presented papers shall be published and Indexed in the proceedings with ISBN number / Scopus. Based on the authors request, extended papers will be recommended for possible publication in Scopus Indexed Journals (Article Processing Charges as applicable)

**Paper details Submission:** <https://forms.office.com/r/fu6BHHPKLK>

**Submit the paper to the mail:** [icecces@mbu.asia](mailto:icecces@mbu.asia)

**Paper Submission Format:** <https://www.ieee.org/content/dam/ieee-org/ieee/web/org/conferences/Conference-template-A4.doc>

## IMPORTANT DATES

Submission Deadline for paper	10.10.2025
Notification of Acceptance/Rejection of the submitted Paper	20.10.2025
Camera Ready Submission	25.10.2025
Last date for online registration	30.10.2025
Conference Dates	05.11.2025 to 07.11.2025

Mode of Conference: **Hybrid (Online & Offline)**

### For More Details Contact

**Dr. V Arun**

Mobile: **+91-95002 18228**

**Dr. S. Prabhu**

Mobile: **+91-96006 46211**

Email: [icecces@mbu.asia](mailto:icecces@mbu.asia)



**MBU**  
**MOHAN BABU**  
**UNIVERSITY**

DREAM. BELIEVE. ACHIEVE

## MOHAN BABU UNIVERSITY

Sree Sainath Nagar,  
Tirupati Andhra Pradesh - 517102  
[www.mbu.asia](http://www.mbu.asia)