

International
Workshop on
**AI-Driven
Innovations in
Power Systems
& Electric
Mobility**

20–24
July
2026



AIPSEM 2026

Towards a Smarter, Sustainable Energy Future

— Organized by —



SCHOOL OF
ARTIFICIAL INTELLIGENCE
COIMBATORE

Supported by



Mode: **Online**

About the School of Artificial Intelligence



The School of Artificial Intelligence, Amrita Vishwa Vidyapeetham, Coimbatore, is dedicated to advancing education, research, and innovation in Artificial Intelligence, Data Science, Machine Learning, Deep Learning, Robotics, Intelligent Systems, and Emerging Digital Technologies. The School fosters interdisciplinary research and industry collaboration to develop AI-driven solutions for societal and industrial challenges in energy, healthcare, mobility, sustainability, and smart infrastructure. Through cutting-edge research, academic excellence, and global partnerships, the School is shaping the next generation of AI professionals and innovators.

About the Thrust Area Group

AI Innovations in Power, Energy & Electric Vehicles

The AI Innovations in Power, Energy & Electric Vehicles (AI-PEEV) Research Group focuses on leveraging Artificial Intelligence and Data-Driven Technologies to accelerate the transition towards sustainable, resilient, and intelligent energy systems. The group brings together expertise from power systems, renewable energy, electric mobility, control systems, machine learning, and digital technologies to address emerging challenges in the energy sector.

Key Research Areas

- AI for Smart Grids and Power System Operation
- Renewable Energy Forecasting and Integration
- Electric Vehicle Analytics and Energy Management
- Battery State of Charge (SOC) and State of Health (SOH) Estimation
- AI-Based Battery Thermal Management Systems
- Predictive Maintenance of Transformers and Power Equipment
- Intelligent EV Charging and Vehicle-to-Grid (V2G) Technologies
- Power Quality Monitoring and Fault Diagnosis
- Digital Twins for Energy Systems and Electric Mobility
- Cyber-Physical Security of Smart Energy Infrastructure
- Multi-Agent Control for Distributed Energy Resources
- Sustainable and Carbon-Neutral Energy Technologies

Vision

To create impactful AI-driven solutions that enhance the reliability, efficiency, sustainability, and resilience of future power and energy systems while supporting the global transition to clean energy and electric mobility.

About AIPSEM 2026

AIPSEM 2026 – International Workshop on AI-Driven Innovations in Power Systems & Electric Mobility is a five-day international online workshop bringing together researchers, academicians, industry professionals, and students to explore the transformative role of Artificial Intelligence in modern power systems, renewable energy integration, smart grids, and electric mobility.

The workshop will feature expert lectures, industry perspectives, hands-on sessions using MATLAB and Python, and discussions on emerging research trends that are shaping the future of sustainable energy systems. Participants will gain insights into cutting-edge AI techniques and their practical applications in energy transition, grid modernization, and electric transportation.

Theme

Towards a Smarter, Sustainable Energy Future.

Registration



For **Registration**
Scan QR code

Registration Fee

- Indian participants : ₹500
- International participants : ₹ 1000

Contact

Convener

Dr. K P Soman

Coordinators

Dr. Rahul Satheesh

s_rahul1@cb.amrita.edu

Dr. Muthukumari S

s_muthukumari@cb.amrita.edu

AIPSEM 2026

Towards a Smarter, Sustainable Energy Future



**SCHOOL OF
ARTIFICIAL INTELLIGENCE
COIMBATORE**

Amritanagar P.O., Ettimadai, Coimbatore- 641 112, Tamil Nadu, India
Phone: +91 422- 268 5000/ 2686000