

ABOUT THE INSTITUTION

AAA College of Engineering and Technology, Sivakasi was established in the year 2013. It is one among the renowned colleges for imparting technical education in the fireworks city. It is branded for its quality education, through Panjurajan – Amaravathy trust, Thiruthangal, Virudhunagar District and Promoted by Vinayaga – Sony fireworks group of industries. The college provides young and promising engineers who can work competitively and productively in the engineering services on a global scale. Learning is a continuous process at AACET to achieve over all academic excellence.

INSTITUTE VISION

- Emerge as a premier institute for quality technical education and research with social responsibilities.

INSTITUTE MISSION

- To offer state of the art infrastructure for undergraduate, postgraduate and doctoral programs.
- To provide holistic learning ambience blended with professional ethics, leadership qualities, and social responsibilities.
- To disseminate knowledge and undertake research in the field of engineering and technology.
- To inculcate innovation and creativity among the student community to become successful entrepreneurs.
- To undertake collaborative projects with academic, research centres and industries to provide cost-effective solutions.

ABOUT THE DEPARTMENT

Our department has been offering B.E - EEE programme since 2013. We are having well qualified team with experienced faculty with cadre ratio as per AICTE, they are guiding the students to attain the best educational objectives.

DEPARTMENT VISION

- To be an eminent department by imparting professional knowledge and a sense of ethics through quality teaching, training and collaborative research.

DEPARTMENT MISSION

- To enlight students with sound technical knowledge and practical skills in electrical engineering through modern pedagogy delivered by eminent faculty with state-of-the-art facilities.
- To educate students to be responsible electrical engineering professionals and entrepreneurs with moral values and ethics for serving the needs of the society.
- To evolve technological innovations that address the modern needs of electrical engineering through appropriate training and collaborative research.



AAA

COLLEGE OF ENGINEERING AND TECHNOLOGY, SIVAKASI

Affiliated to Anna University, Chennai | Approved by AICTE, New Delhi

Accredited by NAAC with 'A' Grade | Accredited by NBA (CIVIL, CSE, ECE, EEE, MECH)

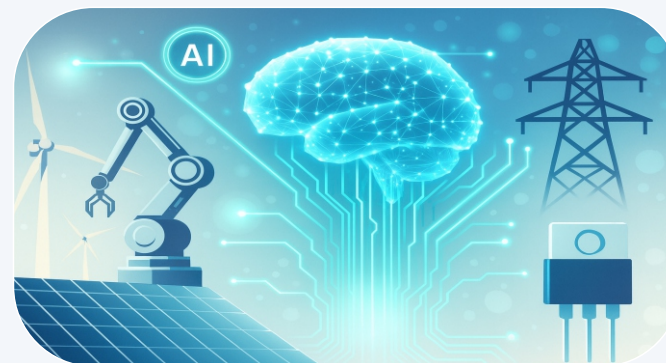
Anna University recognized Research Centre (CSE, MECH) | A TUV ISO 21001:2018 Certified Institution

Managed by Vinayaga - Sonny Fireworks Group of Industries / Panjurajan - Amaravathy Trust

Sivakasi - Virudhunagar, Kamarajar Educational Road, Amathur - 626 005.

**DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ORGANIZES**

A FIVE-Days Faculty Development Programme (FDP) on 'AI- Driven Innovations in Power Systems and Power Electronics'



Duration

15/12/2025 to 19/12/2025

Venue: Thomas Alva Edison Hall, Cambridge Block

PATRON

Dr. M. SEKAR

PRINCIPAL

CONVENER

Dr. C. SENTHIL KUMAR

PROFESSOR & HEAD/EEE

COORDINATORS

Mrs. B. SAROJINI

Assistant Professor/ EEE

Mrs. M. MAHESWARI

Assistant Professor/ EEE

ABOUT THE FDP

This Faculty Development Programme (FDP) aims to provide the participants with in-depth knowledge on Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL) techniques applied to modern power systems and power electronics. The programme bridges the gap between the conventional engineering practices and emerging AI-based intelligent control, optimization, monitoring, and fault-diagnosis methods essential for smart grids, renewable integration, and advanced power electronic converters.

OBJECTIVES OF THE FDP

- To introduce AI, ML, and DL concepts relevant to electrical engineering applications.
- To explore AI-assisted control, forecasting, and optimization in power systems.
- To understand intelligent techniques of converter design, switching control, and grid-connected systems.
- To provide hands-on exposure to MATLAB, Python, Simulink, and real-time simulation environments.
- To enhance research capabilities and support outcome-based teaching in EEE domains.

KEY TOPICS TO BE COVERED

- Introduction to AI and ML in Electrical Engineering
- Smart and Sustainable Power System Architectures
- AI Applications in Power System Operation, Protection, and Control
- Optimization Techniques for Power Electronics Control
- AI-Driven Converters for Renewable Energy and EV Integration
- Deep Learning and Intelligent Fault Diagnosis in Power Systems

SUSTAINABLE DEVELOPMENT GOAL



PARTICIPANTS

- Faculty Members from EEE/ECE domains
- Research Scholars & PG Students
- Industry Professionals and R&D Engineers

IMPORTANT DATES

- Last date for registration: 12.12.2025
- Intimation of selection (by email) : 13.12.2025

REGISTRATION FEE

- ₹500/- for Registration Kit, Tea, Snacks & Lunch. Certificates will be provided to all the Participants.

MODE OF PAYMENT - Online payment :6382443406@ybl



RESOURCE PERSONS

- From premier institutions and reputed universities.

ACCOMMODATION

- Limited In- campus accommodation will be provided to the participants on request and payment basis.

REGISTRATION LINK

- <https://forms.gle/z1xB7mN5tpHPQ9ox5>

CONTACT

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