Organizing Committee

Chief Patron

Dr. G. Viswanathan
Honorable Chancellor

Patrons

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Conveners

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Dean, School of Electrical Engineering
Dr. N. Ruban
Associate Dean, School of Electrical Engineering

Advisory Committee

Dr. Yedula Pedda Obulesu
HoD, Dept. of Energy and Power Electronics
Dr. Vinoth Kumar E
HoD, Department of Control and Automation
Dr. P. Vijayapriya
HoD, Department of Electrical Engineering
Dr. P. Mahalakshmi
HoD, Dept. of Instrumentation Engineering

ABOUT VIT

VIT was founded in 1984 as Vellore Engineering College by the Chancellor, Dr. G. Viswanathan. From its humble beginnings, the institution has grown exponentially to that of more than 35,000 students. It was conferred the University status in 2001 in recognition of its excellence in academics, research, and extracurricular initiatives. Currently, VIT has 6 campuses – in Vellore, Chennai, Amaravati (AP), Bangalore, Bhopal (MP) and Mauritius. VIT has been consistently ranked among the best institutions of the country and is aspiring to emerge as a global leader. The National Institutional Ranking Framework (NIRF) of the MHRD, Government of India, has identified VIT as the best Private Engineering Institution in India. With students from all the states of India and from more than 50 countries, the cosmopolitan VIT provides an appropriate ambience for holistic learning and comfortable living. Sports, games and cultural activities are an integral part of student life on campus. VIT holds an exemplary placement record by consistently placing more than ninety percentage of the students in good companies. The VIT's international linkages provide ample opportunities for students and faculty to gain global exposure. VIT alumni, spread across the world, are serving the most-advanced as well as the most deprived.

ABOUT SELECT

School of Electrical Engineering (SELECT) has 98 faculty members who have done their UG and PG degrees from the top-notch universities. The school offers B.Tech. (Electrical and Electronics Engineering), B.Tech. (Electronics and Instrumentation Engineering), B.Tech. (Electrical and Computer Engineering), M.Tech. (Power Electronics and Drives) and M. Tech (Control and Automation), M.S. by Research and Ph.D. in Engineering. B.Tech. (Electrical and Electronics Engineering) and B.Tech. (Electronics and Instrumentation Engineering), is accredited by the Engineering Accreditation Commission of ABET and also by NBA for six years. All UG & PG programmes of the school are accredited by the Institution of Engineering and Technology (IET), the U.K. The placement record of the school has always been impressive. Almost 100% of the students get job from the campus placement and many of them are getting it in core companies every year. The school has state-of-the-art laboratories in almost all the areas of Electrical, Electronics and Instrumentation Engineering. Every year, students get scholarships to do their final year projects abroad under the Semester Abroad Program (SAP). Danfoss Industries Pvt. Ltd. India, Schneider Electric, India and NxP Semiconductors, India, have established Centre of Excellence for students R&D activities under the guidance of faculty members and industry experts. The school has signed MoUs with many foreign universities, research organizations and Industries from where students get benefits for their R&D Work / Projects from the MoUs.

VIT®
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Anusandhan National Research Foundation

ANRF PAIR SPONSORED TWO DAYS WORKSHOP

on

AI-Powered Smart Grid Forecasting & Blockchain-based Energy Exchange

(12.02.2026 to 13.02.2026)

Coordinators

Dr. Rajasekar N
Dr. Yedula Pedda Obulesu
Dr. Albert Alexander S

Organized by

SCHOOL OF ELECTRICAL ENGINEERING
VELLORE INSTITUTE OF TECHNOLOGY
VELLORE 632 014

7 AFFORDABLE AND CLEAN ENERGY

13 CLIMATE ACTION

OBJECTIVES

AI-powered smart grids use predictive analytics for efficient energy management, while blockchain provides a secure, transparent platform for decentralized energy trading. This integration optimizes renewable energy use and enhances grid reliability. Artificial Intelligence (AI) and Machine Learning (ML) are crucial for managing the complex, two-way power flow in modern smart grids, especially with intermittent renewable energy sources like solar and wind. Blockchain technology provides the secure and transparent framework necessary for decentralized energy markets, particularly for peer-to-peer (P2P) energy trading.

CONTENTS OF THE WORKSHOP

- AI Transformative Architecture
- Building own GenAI workflow
- Machine Learning Techniques for Load, Price, and Renewable Energy Forecasting
- AI and Machine Learning for Smart Power Converters: Modeling, Control, and Applications
- Blockchain Based Energy Exchange
- Predictive Maintenance
- Grid Optimization and Stability
- Case Studies and Laboratory Visit

TARGET GROUP & MODE

Target Group: Assistant Professors/ Associate Professors/ Professors/ Ph.D. scholars/ PG and UG Students/ Industry Professionals

Mode: offline – face to face

REGISTRATION DETAILS

Rs. 300 + 18% GST (Academicians / Scientists / Industrialists)

Rs. 200 + 18% GST (UG / PG Students / Research Scholars)

Registration charges include registration kit and working lunch. The number of participants is limited to 40 on a first-come, first-served basis.

THERE IS NO REGISTRATION FEE for ANRF PAIR PROJECT SPOKE INSTITUTES

Last date for registration : 08.02.2026
Last date for payment : 10.02.2026 *

* The payment link will be shared after completing the registration.
Shared bed accommodation may be provided on a payment basis. Contact the coordinators for further details.

RESOURCE PERSONS

The sessions will be handled by the experts from reputed industries and leading academic institutions.

HOW TO APPLY?

For registration, use the following link**:**

https://forms.gle/W3d2eZvrwbQg8XRq9

CONTACT DETAILS

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BLOCKCHAIN