

ABOUT VIT

Vellore Institute of Technology (VIT) is a renowned private deemed university located in Vellore, Tamil Nadu, India. Established in 1984, VIT has grown into a leading institution known for its academic excellence, diverse programs, and focus on research and innovation. It offers a wide range of undergraduate, postgraduate, and doctoral programs in various fields, including engineering, management, science and humanities. In Engineering and Technology, VIT stands 142nd best in the World and the 9th best in India (as QS World University Ranking 2025). Also based on the same survey, eight subjects of VIT are within the top 500 in the world. It is ranked as the 10th best university and 13th best research institution. VIT is accredited with an 'A++' Grade by NAAC and has consistently been ranked among the top engineering and private universities in India by various ranking bodies. The institute emphasizes a holistic learning experience, combining rigorous academics with ample opportunities for extracurricular activities, research, and industry collaborations. VIT's sprawling campus provides a vibrant and conducive environment for students to learn, grow, and excel in their chosen fields. Hack-athon, Make-a-thon, Math-a-thon, Stat-a-thon as part of curriculum exercise which kindles the interest and the curiosity of students, which motivates them to be better problem solvers, last module in every subject being handled by the industrial experts, making the students contextualize the concepts they study in the classroom, are a few of the innovations that VIT has introduced in their learning system.

ABOUT SCHOOL & CENTRE:

- **Centre for Clean Environment** focuses on advancing sustainable energy and environmental solutions through innovative research in renewable energy, energy storage, and climate action.
- **School of Electrical Engineering** drives cutting-edge advancements in smart grids, power systems, and energy-efficient technologies, fostering innovation in clean power generation and distribution.
- **School of Computer Science & Engineering** integrates artificial intelligence, data analytics, and digital transformation tools to optimize energy systems and enhance smart technology applications.
- **School of Agricultural Innovations and Advanced Learning** pioneers sustainable agricultural practices by leveraging renewable energy technologies for efficient water, soil, and crop management.

ABOUT THE PROGRAMME

This workshop focuses on advancing knowledge in renewable energy and sustainable technologies along with hands on training on Hardware in Loop Simulation. It includes sessions on the fundamentals of solar design and key power components. Participants will learn about compressed air and thermal energy storage systems. Industry experts will discuss innovative approaches to cold chain management and smart metering. The development of nano phase change materials for efficient heat storage will be covered. Agro-product preservation techniques under controlled energy conditions will be explored. Expert lectures will highlight real-world applications and industrial perspectives. Discussions will focus on technological advancements and implementation challenges. The program aims to enhance technical understanding along with hands on training and strategic insights. It provides a platform to connect academia with industry leaders in energy innovation.

TOPICS TO BE COVERED

- Understanding of basic solar design and power components
- Hands on training on Hardware in Loop simulator
- Smart Metering Infrastructure and IoT monitoring
- Study on Compressed air energy storage and Thermal energy storage
- Cold chain management
- Development of Nano phase change material
- Agro product preservation and conditions

REGISTRATION FEE

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

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

Registration charges include registration kit and working lunch. The number of participants is limited to 60 on a first-come, first-served basis.

Last date for registration: **23.11.2025**

Last date for payment*: **26.11.2025**

*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.



VIT[®]

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

Vellore- 632 014, Tamil Nadu

**CENTRE FOR CLEAN ENVIRONMENT,
SCHOOL OF ELECTRICAL ENGINEERING,
SCHOOL OF COMPUTER SCIENCE & ENGINEERING
&
SCHOOL OF AGRICULTURAL INNOVATIONS AND
ADVANCED LEARNING**

Thematic Area
ENERGY TECHNOLOGY

अनुसंधान नेशनल रिसर्च फाउंडेशन
Anusandhan National Research Foundation

ANRF-PAIR Funded

**Two-day
Workshop**

On

**“INNOVATIVE SOLAR COLD
CHAIN WITH COMPRESSED
AIR ENERGY STORAGE AND
NANO PHASE CHANGE
MATERIAL”**

5th - 6th December 2025

Conducted For Spoke Institutes

**Periyar University
Manonmaniam Sundaranar University**

RESOURCE PERSONS



Dr. Rajasekar N
Professor, Department of Energy and power electronics, SELECT, VIT, Vellore



Dr. Yedula Pedda Obulesu
Professor, Department of Energy and power electronics, SELECT, VIT, Vellore



Dr. S Albert Alexander
Professor, Department of Energy and power electronics, SELECT, VIT, Vellore



Mr. Sanga Mithran
Vice President
Tan90 Thermal Solutions Pvt Ltd
Chennai



Mr. Chetan Bhatt
CEO, QiGrid
Bengaluru



Mr. Vjyai karthi
Senior Engineering Lead Manager
EDRC, L&T
Chennai



Prof. B. Sundarakannan
Department of Physics
Manonmaniam Sundaranar University
Tirunelveli



Dr. Padma Lakshmi G
Assistant Professor, School of Agricultural Innovations and Advanced Learning
VIT, Vellore



Dr. Gayathri. V
Assistant Professor, Centre for Clean Environment
VIT, Vellore



Dr. Pusha Gothwal
Assistant Professor, Department of IoT
SCOPE
VIT, Vellore



Dr. Priyadharshini B
Assistant Professor
VIT School of Agricultural Innovations And
Advanced Learning
VIT, Vellore



Dr. Kalaavathi,
Professor
Department of IoT,
VIT, Vellore

ORGANIZING COMMITTEE
HONORABLE PATRON

Dr. G. Viswanathan, Founder and Chancellor

CHIEF PATRONS

Shri. Sankar Viswanathan, Vice President
Dr. Sekar Viswanathan, Vice President
Dr. G. V. Selvam, Vice President
Dr. Sandhya Pentareddy, Executive Director
Ms. Kadhambari S. Viswanathan, Assistant Vice President

PATRONS

Dr. V. S. Kanchana Bhaaskaran, Vice Chancellor
Dr. Partha Sarathi Mallick, Pro-Vice Chancellor
Dr. T. Jayabarathi, Registrar

CONVENER

- 1. Prof. Srimuruganandam B,
Director, Centre for Clean Environment, VIT Vellore
- 2. Prof. N. Rajasekar, Project Director, ANRF, select

COORDINATORS

Dr. Gayathri. V, Centre for Clean Environment, VIT, Vellore

Dr. S Albert Alexander, School of Electrical Engineering, Vellore

Dr. Pusha Gothwal, School of Computer Science and Engineering,
VIT, Vellore

Dr. Priyadharshini B, School of Agricultural Innovations and
Advanced Learning, VIT. Vellore

TARGET GROUP INCLUDES

Faculty members from academic institutions/Research
scholars/ UG/PG Students /Scientists/ Industrialists/Govt.
Officials

REGISTRATION LINK



