



VIT[®]

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

**School of Electrical Engineering
Jointly Organizes with
School of Computer Science and Engineering**

Value Added Program

**VAC2603-Quantum-Inspired Computational Methods for AI
and Computer Vision**

Sponsored by



Registration



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Dean, SCOPE

COORDINATORS

Dr. Indragandhi V, Prof., (SELECT)

Dr. Balaji G N, Assoc. Prof., (SCOPE)

Dr. Subramaniaswamy V, Prof., (SCOPE)

ABOUT VELLORE INSTITUTE OF TECHNOLOGY

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. In fact, it has become a way of life for us. The highly motivated youngsters on the campus are a constant source of pride. Our Memoranda of Understanding with various international universities is our major strength. They provide for an exchange of students and faculty and encourage joint research projects for the mutual benefit of these universities. Many of our students, who pursue their research projects in foreign universities, bring high quality to their work and esteem to India and have done us proud. With steady steps, we continue our march forward. We look forward to meeting you here at VIT.

About the Value Added Program

The Value-Added Program on Quantum-Inspired Computer Vision for Smart Energy Infrastructure is designed to provide UG, PG, and research scholars with a strong foundation in AI-driven vision systems and computational techniques relevant to modern smart infrastructure. This program focuses on integrating computer vision, image processing, and quantum-inspired computational concepts to support intelligent monitoring, fault detection, and decision-making in energy and infrastructure systems. Through a balanced mix of theoretical concepts and practical modeling approaches, participants gain exposure to real-time monitoring, anomaly detection, and automated decision support systems, preparing them for advanced research and industry applications in smart energy and intelligent facilities.

Registration

- ✓ Participants provided with a certificate
- ✓ Attracting Prizes to Quiz Winners (End of Every Session)
- ✓ No registration fee for participants

Date: 18th, 19th, 25th, 26th July 2026 & 1st August 2026

Time: 9 AM- 5 PM

Event Details

Technical Sessions

**Schedule will be communicated*

Contact

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Topics to be Covered

- **Quantum-Inspired Computing Fundamentals for AI**
- **Quantum-Inspired Data Representation and Feature Encoding**
- **Similarity Learning and Optimization Techniques**
- **Quantum-Inspired Machine Learning Concepts**
- **Applications in Computer Vision and Image Analysis**
- **Hands-on with Qiskit, PennyLane, and Ocean SDK**
- **Performance Evaluation and Practical Challenges**
- **Quantum Computing Applications**
- **Future Trends in Quantum-Inspired AI and Vision Systems**

Note: Sessions will be handled by industry experts, academicians and international experts