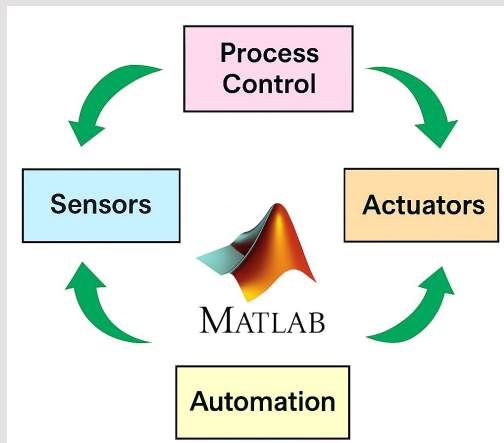


A Value-Added Programme

On

VAC2417-Control Systems, Sensors, Process Control and Automation

Dates: 10th, 11th, 17th and 18th October 2026



Organized by

School of Electrical Engineering
Vellore Institute of Technology,
Vellore-632014.

ABOUT THE VAP

Control Systems, Sensors, Process Control and Automation are essential for achieving accuracy, stability and efficiency in modern industrial operations. Sensors provide real-time data required for monitoring and feedback in automated systems. Process control techniques help maintain product quality, reduce variability and optimize production workflows. Automation minimizes human intervention, enhances safety and ensures consistent performance in industries such as manufacturing, energy, chemical processing and automotive. Tools like MATLAB/Simulink and PLC/SCADA platforms are widely used for modelling, simulation and controller implementation. Considering the increasing industrial demand, this VAP aims to provide practical exposure to control principles, sensor integration and automated process handling for real-world applications.

TECHNICAL SESSIONS

- Introduction to sensors, transducers, and signal conditioning techniques
- Fundamentals of control systems and classification of control strategies
- Mathematical modelling of physical and industrial dynamic systems
- Transfer function analysis and time-domain performance evaluation
- PID controller design, tuning methods, and implementation considerations
- Cascade, feedforward, ratio control
- Industrial process automation: PLC, SCADA, communication protocols, and simulation using MATLAB/Simulink

ABOUT VIT

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 are 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.

ABOUT THE SCHOOL OF ELECTRICAL ENGINEERING

School of Electrical Engineering (SELECT) has 90 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), 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. All UG & PG programmes of the school are accredited by the Institution of Engineering and Technology (IET), 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). 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.

Resource Persons



Dr. Mahalakshmi P
SELECT, VIT



Dr. Vinodh Kumar E
SELECT, VIT



Dr. Yuvapriya T
SELECT, VIT



Dr. Jitendra Kumar Goyal
SELECT, VIT



Dr. Janeshwar G
SELECT, VIT

REGISTRATION

Registration fee : Rs.200/-

* Registration fee excludes 18% GST.

Mode : Offline

Target group: UG and PG students

Maximum 30 participants will be accommodated in the VAP. Hence, the preference will be given according to first come first serve basis. Prospective participants can register for the VAP through the following link.

<https://events.vit.ac.in/>

IMPORTANT DATES

Last date for registration: **05-10-2026**

Dates of VAP: 10th, 11th, 17th and 18th October 2026

Co-ordinators

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ORGANIZING COMMITTEE

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