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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 Bhopal. 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)

Two Days Workshop on Ignition Core: SCADA Application Build and Deployment

(06-07 November 2025)

Coordinators
Dr.S.Albert Alexander PDF (USA)., SMIEEE.,
UGC-Raman Research Fellow
Associate Professor Senior

Dr. Sonam Shrivastava
Assistant Professor

Organized By
SCHOOL OF ELECTRICAL ENGINEERING
VELLORE INSTITUTE OF TECHNOLOGY
VELLORE 632 014

In association with

WHY TO ATTEND?

BASE Automation has been an Ignition Automation partner and achieved "Gold Certified Integrators" status for Ignition software in 2021. Gold Integration status is not only an indication of our competency but also provides us elevated access to Inductive Automation resources including support, development, and sales. 100% of our engineers are trained in Ignition and are incentivized to achieve and maintain certification status.

SESSION DETAILS

Day 1: Foundations & Getting Hands-On

Session 1:
Introduction to Industrial Automation and Ignition
- ❖ Overview of industrial automation concepts
- ❖ What is SCADA and why is it important?
- ❖ Quick demo: Modern automation systems

Session 2:
Ignition Platform Tour
- ❖ Ignition architecture and modules overview
- ❖ Navigating the Ignition Designer
- ❖ License-free/demo mode basics
- ❖ Connecting to sample data sources

Session 3:
Creating the First Project
- ❖ Starting a new Ignition project
- ❖ Tag basics: digital and analog
- ❖ Simple data visualization: creating indicators and charts

Session 4:
Hands-on Lab
- ❖ Students build a control panel using demo data
- ❖ Group sharing and quick showcase

Day 2: Real World Applications & Mini-Projects

Session 5:
Data Logging and Alarming
- ❖ Logging historical data with Ignition
- ❖ Setting up basic alarms
- ❖ Trends: working with real-time and historical data

Session 6:
Introduction to Scripting and Logic
- ❖ Brief intro to Python scripting in Ignition
- ❖ Adding logic to screens (e.g. toggling a device)
- ❖ Writing a basic alert popup

Session 7:
Mini Project / Team Challenge
- ❖ Students form small groups
- ❖ Each group designs a small dashboard (example: monitoring a tank, running counter, alarm view)
- ❖ Peer review and feedback

Session 8:
Wrap-up & Career Perspectives
- ❖ How SCADA fits into future tech and career options
- ❖ Q&A/feedback, sharing learning resources

TARGET GROUP & MODE

Target Group: Professors/ Assistant Professors/ Associate Professors/ Ph.D. scholars/ PG students/ UG students/ Polytechnic teachers/ Industry professionals
Mode: offline – face to face

REGISTRATION DETAILS

Registration is limited to **50** participants. Applications will be selected on first-come-first serve basis.
Participants (Internal): Rs.500/-+GST as Applicable
Participants (External): Rs.1000/-+GST as Applicable

HOW TO APPLY?

For registration, use the following link**:**
https://forms.gle/DHk64fqbNUhw6Qy66

For payment use the following link**:**
https://events.vit.ac.in/

Last date for registration: **4ˢᵗ November 2025**
Registration includes food, snacks, workshop kit and software licence

ACCOMODATION

Accommodation will be provided inside the campus upon your prior request in chargeable basis
(Around Rs.300 per day)

CONTACT DETAILS

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