About SENSE

SENSE at VIT was established for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. The school has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, Embedded, Sensors and Nanotechnology. Faculty are actively involved in R&D activities and are working on research projects funded by government organizations like DRDO, ISRO (RESPOND), BRNS and agencies like DST.

About the event

This value-added course is designed to equip participants with the essential programming skills required for Industry 4.0 — the era of smart manufacturing, automation, and intelligent systems. The course introduces key programming languages such as Python, C/C++, and Java, which are widely used in robotics, IoT devices, data analytics, and industrial automation. Participants will learn to write efficient code, interface with sensors and controllers, automate industrial tasks, and work with real-time data. Hands-on lab sessions, mini-projects, and application-based activities help participants understand how programming drives technologies like AI, machine learning, cloud integration, and cyber-physical systems. By the end of the course, learners will be able to develop basic Industry 4.0 applications, troubleshoot automation processes, and apply programming logic to real industrial challenges. This course prepares participants for future-ready roles in smart manufacturing and digital transformation.

Resource Persons from

- TCS, Chennai
- WIPRO, Chennai
- DTCC, Chennai
- HCL, Chennai and
- Excelerate, Dubai
- AIILines Technology, Chennai

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Eligibility: The VAC is open to Research Scholars and UG/PG students.

Registration Amount: Rs. 590/- (Inclusive GST)
Registration Link: https://events.vit.ac.in/

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Value-added Course on Programming Language for Industry 4.0

15th Feb, 2026 to 4th April, 2026
(35 hours)

Organized by

Department of Sensor and Biomedical Technology
&
Department of Communication Engineering

School of Electronics Engineering, Vellore Institute of Technology, Vellore, India-632014