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

40 YEARS OF TRANSFORMING LIVES

# Value-Added Course on

# INDUSTRY 5.0

31 AUG - 12 OCT, 2025

## Learning Outcomes

On completion of the course, participants will be able to

1. Define the basic concepts of automation and different types of sensors.
2. Explain the different types of programming languages as per IEC61131-3.
3. Implement automation process for manufacturing and process industries using different machine to machine communication protocols.
4. Simulate different conveyors using Factory IO- 3D simulation platform.
5. Evaluate nodes required for automation using Node-Red application programming interface.
6. Design an automation process and transfer data to the cloud platform.

## Course Content

1. Introduction to Industry 5.0
2. PLC Programming Techniques
3. Communication Protocols
4. 3D Simulation
5. Open Platform Communication
6. Unified Architecture
7. Data Transfer to Cloud Platform

## Target Audience

UG/PG Students, Research Scholars

## Industry Partner

codenplay robotics

## Course Plan

| Dates | Time |
|---|---|
| Aug 31 (Sun) | 9 am – 1 pm |
| Sep 06 - 07 (Sat - Sun) | 9 am – 1 pm |
| Sep 13 - 14 (Sat - Sun) | 9 am – 1 pm |
| Sep 20 - 21 (Sat - Sun) | 9 am – 1 pm |
| Oct 4 (Sat) | 9 am – 1 pm |
| Oct 12 (Sun) | 9 am – 1 pm |

## Registration Fee

Students/Scholars: Rs. 1000/-
Inclusive of 18% GST

## Registration Link

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

## Coordinators


Dr. Konguvel E., Asso. Professor
Dr. Vidhya S., Professor


## Advisors

Dr. Sundar S., Asso. Professor & Head
Dr. Sathya P., Asso. Professor & Head

## Convenor

Dr. Jasmin Pemeena Priyadarisini M., Professor & Dean

## Contact us


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