

Yokogawa Centre of Excellence in Distributed Control Systems

Main Objectives of YCOE are

- To offer training programs to the students of KUMARAGURU COLLEGE OF TECHNOLOGY and neighboring Institutions for Yokogawa Industrial DCS & INDUSTRIAL AUTOMATION.
- Create a platform for students to simulate conditions of live projects in the automation lab and study their behaviour.
- Able to work with different communication protocols used in the industrial automation field.
- To Play a major role in establishing a New PG Diploma course in Industrial Automation System Design.
- To help the students to become future ready engineers
- To help the process industries to solve their problems related to Automation

Students and Scholars can

- Learn in-depth, the programming skills in LabVIEW, COMSOL and MATLAB/SIMULINK
- Build Virtual Instrumentation applications
- Design and Test Sensors and Micro sensors
- Do Mini and Capstone Projects
- Learn and use VTU and V-Lab facility available at College of Engineering, Pune
- Design and automate industrial process applications
- Do Minor and Capstone Projects
- Do research work

Faculty Members can

- Do consultancy work for industries
- Do research work
- Conduct hands on training Programs for students of neighbouring institutions and industry personnel



Major equipment and Software

- Yokogawa Distributed Control System - Centum VP
- Coupled Quadruple Tank System
- Conical Tank Interacting System
- HP 18.5 ProLiant ML330 G6 Server with 60 Computer Systems
- COMSOL Multiphysics Version 5.4 Software – 30 User License
- MATLAB / SIMULINK Software – 250 User Campus Wide License
- NI LabVIEW Software – 50 User License
- LabVIEW - Circuit Design Suite

Utilization

- Value added Programs for students and industry personnel
- Integrated with curriculum
- Project and Product development by students
- Faculty development Programs

Odd Semester

- U14EIP702- Industrial Automation Lab

Even Semester

- U15EIP402- Control Systems Lab
- U15CSP202-Problem Solving
- Technique
- U14EIP801-Project Work