

Automation Laboratory – Siemens Centre of Excellence(SCoE)

About the Laboratory

- **Automation lab** using **Siemens SIMATIC S7-1200** and **S7-1500** controllers combined with an HMI (Human-Machine Interface) provides a hands-on environment to learn modern industrial control. Utilizing the **TIA Portal software**, students program logic, design touch screens, and diagnose automated manufacturing processes
- It combines compact S7-1200 controllers for simple-to-medium tasks with modular, high-performance S7-1500 controllers for complex, fast-cycle applications
- It uses SIMATIC STEP 7 and WinCC inside the Siemens TIA Portal to configure both the PLC logic and HMI graphics in a single project environment.

Faculty In-Charge

Dr. Ranjeet Kumar

Technical Staff

Mr. Amit Kumar

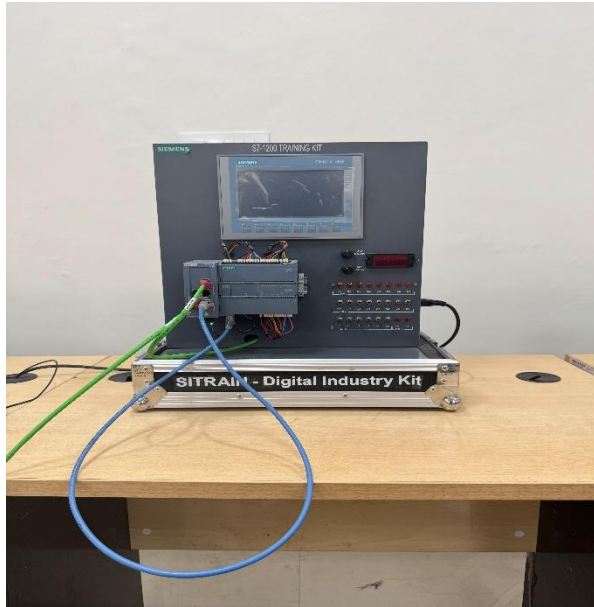
Laboratory Courses

Course Code	Course Name	Programme
RAPC 215	Actuators, Drives and Sensors	B.Tech.

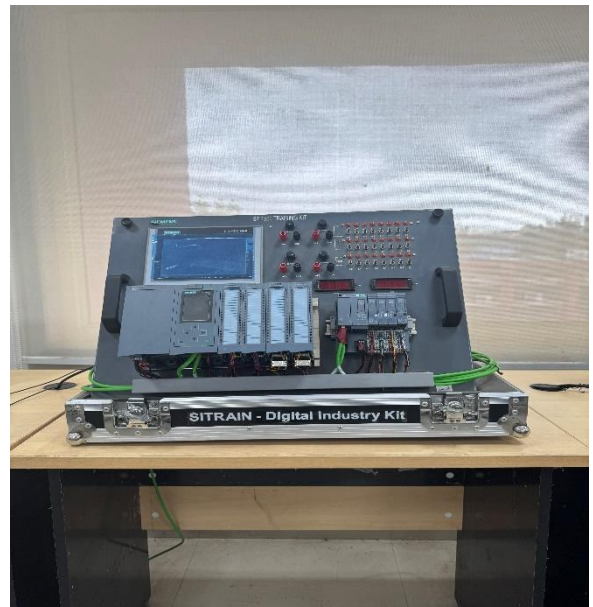
Major Equipment/Software

S. No.	Equipment/Software	Quantity	Utilization
1	Dell OptiPlex 3070 Desktops	07	B.Tech.
2	Siemens SIMATIC S7-1200 PLC + HMI	06	B.Tech.
3	Siemens SIMATIC S7-1500 PLC + HMI	01	B.Tech.
4	PLC/SCADA Software	06 + 02	B.Tech.

Laboratory Photographs



S7-1200 Training Kit



S7-1500 Training Kit

