

Curriculum for Industrial Automation Course

- Introduction, History & Need of Automation.
- Factory & process automation.
- Introduction to components of automation and PLC.
- Input devices like Proximity sensors, Limit switches, Push button and lamps,
- Ultra-sonic sensors, Optical sensors, Encoder.
- Diffusion beam sensors, through beam sensors.
- Output devices like Motors and starters, AC drives, Servo drives.

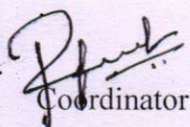
- Introduction & methods of programming PLC.
- Variable types; NO/NC Instruction; Set / reset coils; Transition coils.
- Timers, Counters, Relational functions, Mathematical functions, Control functions.
- Introduction to HMI, Configuring HMI, Hands on & Programming examples with PLC.
- Designing approach for new project - Pick & Place.

Assessment: Students should obtain

Min 80% of attendance

Min 80% Participation in practice session


Quiz



Coordinator



PRINCIPAL
SIET, TUMKUR.



HOD
HOD
Dept of E&C
SIET, Tumkur-6