

Mechatronics

Overview:

Planning, programming, commissioning, operation and troubleshooting of production systems, are taught at various levels of complexity:

- with innovative technology
- with systematic use of industrial components
- In close cooperation with market leaders in automation

Participant Profile:

- Operation, Maintenance, Assembly & Planning personnel designers.
- Engineering Students.

Contents:

- Introduction to system design using mechatronics concept.
- Programming of a complex mechatronics system (Rexroth *Modular Mechatronics System*)
- Troubleshooting & Corrective actions
- Programming in PLC networking
- Design of SCADA view of a plant

Learning Target:

The Participants will be able to

- Identify and describe the operation of pneumatic, electro-pneumatics, electrical and PLC components and sensors.
- Test basic mechatronics circuits (pneumatics, electrical and software).
- Recognizes and can differentiate between the different types of mechatronics system.
- Troubleshoot basic mechatronics systems.

Prerequisites:

- Basic knowledge on PLC programming.
- Basic knowledge on Electro-Pneumatic
- Communication Skills in English.

Teaching & Learning Media:

- Multimedia Presentation.
- Cut-section & Transparent models.
- Sample units & Power units.

Evaluation:

- Theory & Practical Exam
- Project work based on Industrial Application.

Time Durations:

- 36 Hours
- 6 Hours/ Day

Fee:

- ₹ 5500/- + GST

