



CERTIFICATE VOCATIONAL TRAINING PROGRAMME

ON

MECHATRONICS

(DURATION: 4 WEEKS)

Who should Attend:

Engineering student from Mechanical/Mechatronics/Electrical/ Instrumentation/ Electronics doing under graduation with basic knowledge.

Course outline

Module 1

- ⊙ Introduction to Mechatronics
- ⊙ Digital and analog Sensors and transducers
- ⊙ Control System Components

Module 2

- ⊙ Actuators , electric , pneumatic and hydraulic
- ⊙ Servomotors, stepper motors
- ⊙ Controller for Mechatronic systems
- ⊙ Drives for servomotors and stepper motors
- ⊙ Introduction to TCP/IP

Module 3

- ⊙ Logic controller, PLC and HMI
- ⊙ Introduction to Motion Control
- ⊙ Motion Control Terminologies
- ⊙ Basics of Rotary encoder and other transducers
- ⊙ Mechanical consideration for Mechatronic systems

Module 4

- ⊙ Mechatronics Project Engineering
- ⊙ Mechatronics Applications case studies
- ⊙ Real Life Project Case Studies

Certification:

Every successful participant will be awarded a course completion certificate.

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