

Mechatronics Course

(15 days, 60 hours)

A. Theoretical Portion

1. Introduction
2. Sensors
3. Actuation system
4. Controllers

B. Hands on Sessions

1. PLC Programming
2. Fault Detection (troubleshooting)

Day	Content	Faculty
1	Introduction	Mahboob Ahmed
2	Sensors	Dr Dilawar Husain
3		Mr. Adeel Ansari
4		Dr Dilawar Husain
5	Actuation System (Mechanical, Electrical, Electro – mechanical, Hydraulic and Pneumatic system introduction and modelling)	Mr. Adeel Ansari
6		
7		
8		
9		
10	Controllers & PLC programming (TIA Portal, Ladder Programming, S7 - 1200)	Mr. Mahboob Ahmed
11		Mr. Momin Shahbaz
12		
13		
14	Troubleshooting	Mr. Mahboob Ahmed
15		Mr. Momin Shahbaz