

## FACILITIES AVAILABLE

### HARDWARE

- **PC Based Control & Data Acquisition System**
  - NI - PCI 6221
  - NI - PCI 6250
- **PC Based Image Acquisition System**
  - NI - PCI IMAQ 1411
- **Real Time Programmable Automation Controllers (PAC)**
  - NI Compact Field Point cFP2100
  - LabVIEW FPGA - NI cRIO-9068
- **Programmable Logic Controllers (PLC)**
  - AllenBradley SLC 500 & Compact Logix L23
  - Siemens CPU 300 & 400
  - ABB AC 500
- **Supervisory Control and Data Acquisition System**
- **Distributed Control System (DCS)**
  - ABB Freelance 800F
- **Industrial Data Communication Devices**
  - NI USB -8486 Foundation Field Bus
  - ProfiBus DP Master (FI830F & CM572)
  - VIATOR RS232 HART Interface
  - NI-488.2 GPIB
  - AB Remote Access Dial-in Modem Kit
- **Industrial Drives**
  - AB Power Flex 40 AC Drive
  - AB Stepper Motor Controller
- **Smart Instruments**
  - Smar FI 302 & IF 302 (FF)
  - Rosemount 644 TT (HART-FF)
  - TxIsoRail (Temperature Transmitter)

### SOFTWARE

- **NI - LabVIEW 2013 Professional**
- **NI - FBUS**
- **LogixPro Simulator**
- **RS-Logix 500 & RS-Logix 5000**
- **RS-Linx OPC Server**
- **RS-Logix Emulator**
- **SIMANTIC STEP7 & Siemens TIA v11**
- **CoDeSys for AC 500**
- **Proficy HMI/SCADA - iFIX**
- **SIMATIC WinCC flexible 2008**
- **NI - DSC Module**
- **ABB Industrial IT (ABB 800F)**
- **TxConfig (TxIsoRail)**

### PROCESS AUTOMATION TRAINING PLATFORMS

- **Pilot Plant**
- **Process Control Unit (BYTRONIC)**
- **Flow Control Unit (UV 200)**
- **Pressure Control Unit (Feedback)**
- **Level Control Unit (UV 400)**
- **Temperature Control Unit**
- **Motor Control Unit**
- **PH Control Unit**

## ACTIVITIES

### TRAINING

### PROGRAMS

- **Post Graduate Diploma in Industrial Automation System Design (PC-100)**
- **Advanced Diploma - PLC/SCADA/DCS Engineer (PC-500)**
- **Faculty Development Programs /Corporate Training Programs**

### R&D ACTIVITIES/PROJECTS (ONGOING/COMPLETED)

- **Crop Shear Control System for M/s. Tata Iron and Steel Company, Jamshedpur**
- **Ground Water Level Monitoring & Recording Unit Sponsored by Dept. of Science & Technology**
- **Process Automation Training Plant (Pilot-Plant)**

### MAN POWER

- **John G, (Group Head) Sci/Eng 'E'**
- **Arumugam J, (PC-100 Coordinator) Senior Technical Officer**
- **Shaji Thomas, (PC-500 Coordinator) Technical Officer**

