

## Instrumentation Engineering Department

### 1. Electronics LAB

List of major equipment (Costing more than ₹ 50,000)

Nil

#### List of experimental set up

- C.R.O.
- Function Generator
- Dual Power Supply  $\pm 15$  Volts
- DC Power Supply 0 - 30 Volts
- Regulated Power Supply 0 - 300 Volts
- Analog Multimeter
- Digital Multimeter
- Table Multimeter
- Commutation Kit
- SMPS Kit
- Power scope
- Decade Resistance Box
- Capacitance Box
- Pulse Generator
- Frequency Counter
- Analog IC Tester
- Autotransformer
- Tachometer
- Bread Board
- DSO digital storage oscilloscope
- Function Generatorss



### 2. Computer LAB

List of major equipment (Costing more than ₹50,000)

Nil

#### List of experimental set up

- Personal Computers
- Printer
- Scanner
- LCD Projector
- Camera
- VSim S/W



### 3. Digital Signal Processing & Microcontroller Lab

**List of major equipment** (Costing more than ₹50,000)

Nil

#### List of experimental set up

- DSP TMS6748 Kits
- 8085 Microprocessor Kits
- Power Supply
- 8279 interface
- 8259 interface
- 8253 interface
- 8257 interface
- 8251 interface
- 8255 interface
- 8051 Microcontroller Kits
- ADC/DAC Interface



### 4. Process Lab

**List of major equipment** (Costing more than ₹50,000)

Nil

#### List of experimental set up

- PC Based Temp. Control System
- PC Based Level Control System
- Ratio Control System
- Split Range Control System
- Cascade Control System
- Pressure Control System
- Anshuman PLC
- ABB Make DCS System



## 5. Transducer Lab

List of major equipment (Costing more than ₹50,000)

Flow Measurement Trainer

### List of experimental set up

- L.V.D.T.
- Digital Pressure Indicator
- Digital Strain meter
- Digital Displacement Meter
- Dead Weight Pressure Gauge Tester
- Dead Weight Vacuums Gauge Tester
- PID Controller
- RTD Transmitter(PT-100)
- E to P Converter
- RTD Simulator
- PH Simulator
- Flow Control Loop
- Square Root Extractor
- Hot Air Oven
- Air Compressor
- PT-100
- Thermocouples
- Digital milliammeter Cum Source
- Thermister
- Two wire Transmitter
- Digital Multimeter
- Digital Stroboscope
- Capacitive Level Transmitter



## 6. Biomedical & Analytical Instrumentation Lab

List of major equipment (Costing more than ₹50,000)

Digital Spectrophotometer

### List of experimental set up

- Balanced Cell Colorimeter
- Densitometer
- Refractometer
- Flame photometer
- ECG Trainer
- EMG Trainer
- EEG Trainer
- Respiration rate monitor
- Hard Pulse measure trainer
- Blood pressure measure trainer
- Fiber optics trainer



## 7. Control System Lab

List of major equipment (Costing more than ₹50,000)

1. Hydraulic Trainer
2. Siemens PLC System

### List of experimental set up

- C.R.O.
- Adept Control Engg. System
- Adept Disturbance Generator
- Electronic PID Controller
- Dual Tracking Power Supply
- 0-30v Power Supply
- Level Switch

