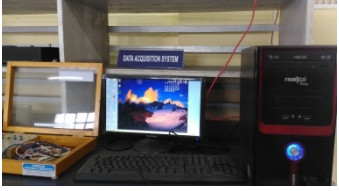
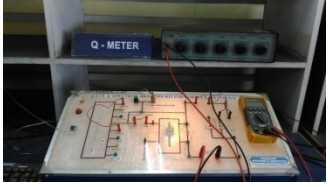




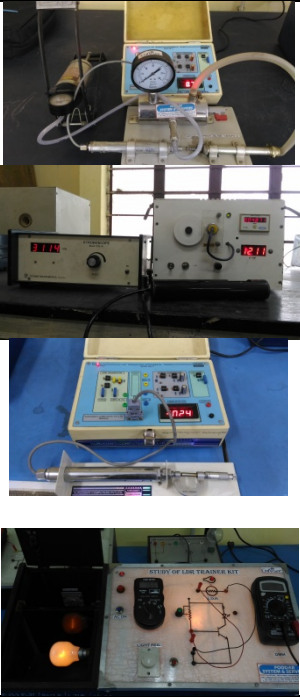













## Applied Electronics & Instrumentation Engineering (AEIE)

| SL NO | LAB NAME                                 | INSTRUMENT LIST   | LAB PICTURE   |
|-------|--|---|---|
| 1     | Electronic Instrument & Measurement Lab. | <ul style="list-style-type: none"> <li>i) Statistical error analysis kit.</li> <li>ii) DMM kit.</li> <li>iii) Data acquisition system kit .</li> <li>iv) Q-meter kit</li> <li>v) V-I &amp; I-V characteristics</li> <li>vi) Dynamic characteristics kit</li> <li>vii) Static characteristics kit</li> <li>viii) PLL &amp; VCO characteristics kit</li> <li>ix) Statistical Error Analysis.</li> <li>x) Desktop Computer</li> </ul>                |         |
| 2     | Electrical Instrument & Measurement Lab. | <ul style="list-style-type: none"> <li>i) Wattmeter calibration kit using potentiometer.</li> <li>ii) Ammeter and Voltmeter calibration kit using potentiometer .</li> <li>iii) Energy meter calibration Trainer kit.</li> <li>iv) Polyphase power measurement trainer kit.</li> <li>v) C.T &amp; P.T</li> <li>vi) Kelvin Double Bridge.</li> <li>vii) Schering Bridge.</li> <li>viii) Anderson Bridge</li> <li>ix) Desktop Computer .</li> </ul> |    |

|   |                                 |   |   |
|---|---------------------------------|---|---|
| 3 | Sensor & Transducer Lab         | <ul style="list-style-type: none"> <li>i) Temperature measurement using AD 590 kit</li> <li>ii) Displacement measurement using LVDT kit</li> <li>iii) Load Cell kit</li> <li>iv) LDR kit</li> <li>v) RPM measurement using Proximity Sensor kit .</li> <li>vi) RPM measurement using Stroboscope</li> <li>vii) Angular measurement using Capacitive Transducer kit</li> <li>viii) Torque measurement kit</li> </ul> |    |
| 4 | Industrial Instrumentation Lab. | <ul style="list-style-type: none"> <li>i) Temperature measurement using Thermocouple</li> <li>ii) Temperature measurement using RTD .</li> <li>iii) Level measurement using Capacitive Transducer.</li> <li>iv) Viscosity measurement using Redwood Viscosity meter</li> <li>v) Moisture measuring instrument</li> <li>vi) Flow measurement using Orifice, Pitot Tube, Venturimeter</li> </ul>                      |   |
| 5 | Telemetry & Remote Control Lab  | <ul style="list-style-type: none"> <li>i) Voltage telemetry kit</li> <li>ii) Current telemetry kit</li> <li>iii) Frequency telemetry kit</li> <li>iv) Data acquisition system kit</li> <li>v) PCM kit</li> <li>vi) Frequency division multiplexing</li> <li>vii) PLL VCO kit</li> </ul>   |  |

|   |                                       |   |   |
|---|---------------------------------------|---|---|
| 6 | Process Control Lab                   | <ul style="list-style-type: none"> <li>i) Study of Temperature control loop.</li> <li>ii) Study of Flow control loop.</li> <li>iii) Study of pressure control loop.</li> <li>iv) Study of Level control loop.</li> <li>v) Programmable logic controller.</li> <li>vi) Distributed control system.</li> <li>vii) Duct air flow monitoring.</li> </ul>  |   |
| 7 | Project Lab                           | <ul style="list-style-type: none"> <li>i) CRO.</li> <li>ii) CDS</li> </ul>  |    |
| 8 | Microprocessor & Microcontroller Lab. | <ul style="list-style-type: none"> <li>i) Microprocessor Kit</li> <li>ii) EPROM Programmer Interface</li> <li>iii) 8253 Study card</li> <li>iv) 8255 Study card .</li> <li>v) Stepper Motor Interface</li> <li>vi) Traffic Light Interface</li> <li>vii) Elevator Interface .</li> <li>viii) DAC for ADC &amp; Temperature Sensor</li> <li>ix) 16 Channel 8-bit ADC Interface .</li> <li>x) 8 Channel 12-bit ADC Interface</li> <li>xi) Drive S/W for Microprocessor Model XT</li> <li>xii) Cross assembler for 8085</li> <li>xiii) Microcontroller (8051) Kit</li> </ul> | <br><br> |

|           |   |  |   |
|-----------|---|--|---|
| <p>9.</p> | <p>Microprocessor Based System Lab.</p> | <ul style="list-style-type: none"> <li>i)8086 Microprocessor trainer with 32KB EPROM &amp; 32KB SRAM</li> <li>ii)8086 based microprocessor trainer with LCD display &amp; ASCII</li> <li>iii)keyboard interface</li> <li>iv) 8259 study card</li> <li>v)8255 study card</li> <li>vi)8279 study card</li> <li>vii) 8 bit 1channel A to D converter study card</li> <li>viii) D to A converter study card</li> <li>viii)Logic controller converter study card.</li> <li>ix) Stepper motor control study card.</li> <li>x)Elevator simulator study card</li> <li>xi)Ultra violet eraser with timer</li> <li>xii) Key board simulator study card</li> <li>xiii) Desktop computers</li> </ul> |    |
| <p>10</p> | <p>Control System Lab</p>               | <ul style="list-style-type: none"> <li>i) Desktop computers</li> <li>ii) Matlab 10</li> <li>iii) Compensation Design</li> <li>iv) Linear system simulator</li> <li>iv) PID Controller</li> <li>v) DC Speed Control System</li> </ul>   |    |