



1. Digital Communications Lab:

- Antenna Measurement System
- Fiber Optic Workbench (ST-2501)
 - Houses a range of experiments from basic ones like numerical aperture index and refractive index to more complicated experiments like voice transmission and reception over optical link.
- Microwave Work Bench (MAAS Electronics ME-6000 , ME-6040)
 - Radiation pattern measurement system
 - Network analysis
 - Microwave sources
- DC Modulation/Demodulation Transmitter Trainer Kit
- Logic Analyzer DS1022CD
- DSP & ADSP Setup
- Frequency Shift Keying Setup
- Delta Modulation – Demonstration Kit
- Microcontroller Based Kits
 - PN and Gold Sequence
 - Eye Pattern
 - FSK
- Modulation/Demodulation Kits
 - AM,FM,PCM,Digital
- Spectrum Analyzer with Tracking Generator (ME5001TG)
- Digital Storage Oscilloscope HM1508
- MATLAB R2006b



2. Analog and Digital Electronics Lab:

- Intelligent Universal Programmer
- Universal IC tester
- Digital Trainer Kit
- Logic Circuit Trainer
- Digital Storage Oscilloscope HM1508



3. Instrumentation Lab:

- National Instruments(NI) Academic Onsite License
 - LabVIEW Professional Version 8.5
 - Electronic Workbench : NI ELVIS/PCI 6251
 - Compact DAQ- USB based Data acquisition systems
 1. CDAQ-9172
 2. NI 9205 32 Channel 16 bit Analog Input Module PCI
 3. NI 9940 36 position Weidmoller Connector
 4. NI 9421 8-Channel Sinking Digital Input Module
- NI 9472 8-Channel Sourcing Digital Output Module PLC based interface cards
 - FHP Motor Interface & FHP Motor
 - Stepper Controller



- Temperature Controller
- 8086 based setups
 - Temperature Controller AD590 Card
 - DAC & ADC Card
 - DC Motor Speed Controller
 - eTraffic Light Controller
 - LVDT Position Control System
 - Water Level Controller
 - 3-Axis Stepper Motor Controller
- Digital Storage Oscilloscope ET25GS/S(150Mhz)
- Low Frequency Audio Generator GAG-809
- Optical Transducer



4. Design & Simulation Lab:

- Cypress University Alliance
 - PSoC Evaluation Boards
 - PSoC™ C Compiler
 - PSoC FirstTouch
 - PSoC Designer and Express Tools
- VLSI
 - Xilinx XC3S100E-4 TQ 144 Spartan 3E FPGA
 - ModelSim
 - Xilinx ISE 8.2
- Cadence Tools
- ORCAD Capture
- Chipscope Pro 8.2 i



5. Electric Machines Lab

- DC Motor & DC generator sets
- DC coupled Synchronous Machine with synchronizing facilities
- DC coupled Induction Machine
- Same rating DC generator /motor set
- 220V DC, single phase ac 230V and 3-phase 415 V supply is provided to each workbench
- Single and three phase inductive, capacitive and resistive loads.
- Single phase and three phase auto transformers.



6. SOFTWARE

| Sr.No. | Name of the Software |
|--------|---------------------------------------|
| 1. | Tanner Tools Package * S-Edit v7.0 |

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| | * T-spice v 7.0 * L-Edit v 8.30 * Library files |
| 2. | PSoC Designer |
| 3. | ORCAD 15.7 |
| 4. | MATLAB (R 2006b) |
| 5. | Xilinx ISE 8.2i |
| 6. | ModelSim |
| 7. | PSoC FirstTouch |
| 8. | PSpice (Evaluation) |
| 9. | Silvaco Software (Evaluation) |
| 10. | Chipscope Pro 8.2 i |
| 11. | LabVIEW Professional Version 8.5 |