

Microprocessor Laboratory

Laboratory Information

Lab Name: Microprocessor Laboratory
Room No.: 326 - Colleges of Engineering and Technology
Capacity: 25 students

The laboratory gives the students the opportunity to use the microprocessors kit for running several programs written in assembly language, and it provides various tests and runs numerous experiments, also, it helps the students to establish interfacing between computer and different input/output devices, Finally, it supports the students with all materials required to create different micro-controller chips, Microprocessor Laboratory is shown in figure 1.22.

Laboratory Equipment

- Computer Intel P. V core 2 Duo, RAM 1 GB, HD 160GB, DVD writer.
- Microcomputer Teaching System.
- Portable Programmer.
- Microprocessor Application Board.
- Microprocessor Training System.
- CPLD Card XC 9500 Complex Programmable Logic Device.
- FPGA (Field Programmable Gate Array) Development Boards.
- ML402 Evaluation Platform with Virtex-4 XC4VLX25 and an embedded PowerPC 405 hardcore.
- Spartan-3A DSP 1800A Development Board with embedded Micro Blaze Soft-core.
- Spartan-3 Starter Kit with XC3S200 FPGA chip and 512KB SRAM.
- Data Acquisition Experiments.
- Running assembly programs on 8088/86 Microprocessors boards.

Laboratory Serves the following courses:

Course Code	Course Title	Semester
CC 442	Digital Design & Introduction to Microprocessors	6 th



Figure 1.22 Microprocessor laboratory