

Title of Lab:

Microprocessor & Interfacing Lab/

Assembly Language Programming Lab

Both labs can be shared in the same location with the same PCs assuming different timings for each lab. Each lab is given to a different level of students.

Assembly Language Programming Lab is for second year students.

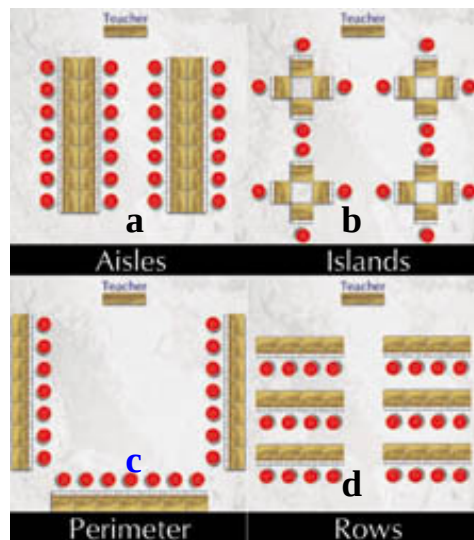
The Microprocessor & Interfacing Lab is to be given for third year students.

It is assumed that some of the equipments are to be stored and arranged by the Lab Manager or Engineer upon request of the teaching Lab instructor.

Area/Space Requirements

- Area: ~64 m²
- Capacity
 - (# Students) 18
 - Lectern 1

Seating Requirement: c



Electrical and Internet Cabling System

- Raised floor No
- Static-free floor Yes
- Cable trough No
- Side wall conduit No

Furniture

- Tables
 - Area (/ student): **1 m²**
 - LAN Connectors **No**
 - USB Connectors **Yes**
 - Headset Connectors **No**
 - Other Connectors **N/A**
 - Electrical Outlet **No**
- Chairs **Non Swivel**
- Closets **Yes (Manuals, Storage, Stationary, etc)**

Equipment

- Audio/Visual
 - o Ceiling-mounted projector **Yes**
 - o Video Cassette/DVD Player **No**
 - o Pull-down screen **Yes**
 - o White Board **Yes**
 - o Large-screen monitors **No**
- PC
 - o CPU (footprint) **Yes**
 - o Keyboard and Mouse **Yes**
 - o Monitor **Yes**
- Peripherals
 - o Scanner **No**
 - o Printer **No**
 - o Digital Camera **No**
 - o Input Microphone **No**

- Software and Equipments

**MASM (Macro Assembler, Version 6.11),
CODE View,
MS Office
Various Programming Language Development S/W
Visual Studio .Net, Fortran/C/C++/.... Compilers**

- Switches **Yes (1)**
- Networking **Networked**
 - o Routers **No**
- Security and Safety
 - o Surveillance Camera System **No**
 - o Fire Extinguisher **Yes**
 - o Sprinkler System **No**
 - o Smoke Detectors **Yes**

- Other
 - o Nearby Systems Room **No**
 - o In-house technician **No**
 - o Additional Hardware **Yes**

No. Of Pieces	Equipment
9	Circuit Design Test Systems
9	Oscilloscope (Series PM 3092)
4	Sweep function Generator
4	Triple O/P Power Supply
1	High Speed data POD
7	Logic Analyzer (Series LA3200)

18 Students are expected to do the lab work in groups of two.