

Title of Lab:

Printed Circuit Board Design Lab

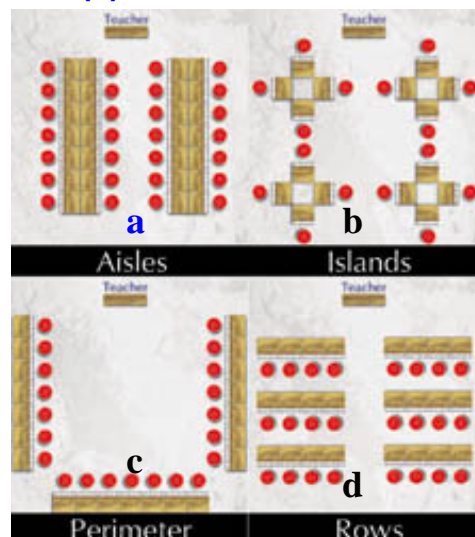
Senior Project Lab

Both Labs students can be working at the same time in the same place. This lab is mainly for seniors to use in their free time to perform their projects. The lab can be a free working time lab.

Area/Space Requirements

- Area: $\sim 60\text{m}^2$
- Capacity
 - (# Students) **18**
 - Lectern **1**

Seating Requirement (a)



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 **Swivel**

- Closets **No**

Equipment

- Audio/Visual
 - Ceiling-mounted projector **Yes**
 - Video Cassette/DVD Player **No**
 - Pull-down screen **Yes**
 - White Board **No**
 - Large-screen monitors **No**
- PC
 - CPU (footprint) **Yes**
 - Keypad and Mouse **Yes**
 - Monitor **Yes**
- Peripherals
 - Scanner **No**
 - Printer **Yes (1)**
 - Digital Camera **No**
 - Input Microphone **No**
- Software
 - Rational Rose**
 - MS SQL Client**
 - Oracle Developer/Client**
 - 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**
 - Routers **No**
- Security and Safety
 - Surveillance Camera System **Yes**
 - Fire Extinguisher **Yes**
 - Sprinkler System **Recommended**
 - Smoke Detectors **Yes**
 - Circuit Breaker: **Yes**
- Other
 - Nearby Systems Room **No**
 - In-house technician **No**
 - Additional Hardware **Yes**
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No. Of Pieces	Equipment
2	Oscilloscope (TDS Family)
3	Logic Analyzer
4	Digital Design Board