

I. Common Specifications for all Computer Labs

The following are labs and studios for the following areas:

1. System Analysis and Design
2. Database Management
3. Applied Computer Engineering
4. Network Management
5. Graphic Design
6. Media Production
7. Interior Design
8. Fashion Design

General Purpose Labs Area/Space Requirements

- Length: **at least 12 meters**
- Width: **at least 8 meters**
- Height: **normal height (no restriction)**
- Capacity: **40 students**

Other Labs Area/Space Requirements

- Length: **at least 10 meters**
- Width: **at least 8 meters**
- Height: **normal height (no restriction)**
- Capacity: **24 students**

Studios Area/Space Requirements

- Length: **at least 11 meters**
- Width: **at least 11 meters**
- Height: **3.5 meters**

Electrical Cabling System

- Raised floor: **As the cost of raised floors is high and since the wiring requirements are decreasing (this is not true in case of labs, you have to have a complete wired environment, and putting access points will require more wires), we do not recommend a raised floor. However, access to electrical power and other wiring needs in multiple locations in each lab has to be taken into consideration.**
- Static-free floor **Yes**
- Side wall conduit **Yes**

Networking: Both wired and Wireless for more reliability (if the wired network fails the wireless also fails, so there is no question of reliability here, labs have to have a complete wired environment, with the possibility of students bringing their laptops and plugging into the wired network. Wireless is a plus).

Closets: Space for closets that will be used to store manuals, equipment, etc., must be taken into account. (It maybe

better to suggest a special enclosure which can be the office space for the lab engineer or a store for expensive equipment, devices, etc., that need to be kept under lock and key when not in use).

Equipment:

- Audio/Visual (Note that one of each is required in exclusive labs [male or female], whereas two of each are required in shared labs.)
 - Ceiling-mounted projector: **Yes (1 or 2)**
 - Pull-down screen: **Yes (1 or 2)**
 - White Board: **Yes (1 or 2)**

- Security and Safety
 - Main Switch (Circuit Breaker) **Yes**
 - Surveillance Camera System **Yes**
 - Fire Extinguishers **Yes**
 - Sprinkler System **Recommended**
 - Smoke Detectors **Yes**

II. Servers' Room, Backup and Administrator Office

A room that hosts all the main servers of the college is required. The administrator's office should not be more than 10 meters away from the servers' room. Backup servers must be located in a different building. The temperature for the servers' room must not exceed 70 Fahrenheit. The area of the servers' room must be at least 25 m²

III. Labs Individual Specifications

Lab Name	# of Labs 1 st phase	# of Labs 2 nd phase	# of Labs 3 rd phase	Seating Req.
General-Purpose Lab	3	2	2	a
Teaching Lab	3	1	1	d
Senior Project Lab	2	0	0	a
Data Communications & Networking Lab	1	0	0	d
Unix lab	1	1	0	d
Digital logic/Digital system Design	1	0	0	d
Assembly & Microprocessor Interfacing lab (Assembly lab must be a different room with PCs)	1	0	0	d
Multimedia lab	3	2	1	c

IV. Studios Individual Specifications

Studio Name	# of Studio 1 st phase	# of Studio 2 nd phase	# of Studio 3 rd phase
General purpose	2	1	1
Drawing	1	0	0
Wood-furniture	1	0	0
Fashion	2	1	1

Reference Picture for Seating Requirement

