**Superior University Faculty of CS & IT**

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Task 10

Computer Network Lab

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**Task 1;**

**Research about Topics for Project and submit a deliverables document having:**

**• Organization Name •**

**Number of Floors of the Organization**

**• Number of PC / Server in the system**

**Organization Documentation: Superior University IT Infrastructure**

# **1. Overview**

Superior University is a prominent educational institution designed to provide students with modern and effective learning environments. The university is structured across three floors, each housing various academic and technological facilities, including computer labs, which play a central role in supporting the academic curriculum.

## **2. Organizational Structure**

* Number of Floors: 3  
  The university is housed in a building with a total of three floors, each designed for specific functions such as academic departments, classrooms, and computer labs.

## **3. IT Infrastructure**

Superior University is equipped with a robust IT infrastructure that includes computer labs, servers, routers, and network systems. This infrastructure ensures smooth access to technology for students and faculty across all floors.

## **3.1. Computer Labs**

The university features 10 computer labs, distributed across its three floors. Each lab is equipped with modern technology to support student learning and research.

* Number of Labs: 10
* PCs per Lab: 32 PCs
* Total Number of PCs in Labs: 10 Labs x 32 PCs = 320 PCs

**Each computer lab is designed with:**

* Desktop PCs equipped with academic software
* Reliable internet access
* Network connectivity to servers and external resources

## **3.2. Servers and Routers in Each Lab**

Each lab is equipped with one server and one router to manage local resources, networking, and communication within the lab. This configuration ensures seamless operation and connectivity within each lab.

* Servers per Lab: 1
* Routers per Lab: 1
* Total Number of Servers: 10 Servers (1 per lab)
* Total Number of Routers: 10 Routers (1 per lab)

**Functions of Servers:**

* Local data storage for the lab
* Hosting academic applications and software
* Network management within the lab

**Functions of Routers:**

* Manage network traffic within each lab
* Provide access to the university's network and internet resources
* Facilitate smooth communication between PCs, servers, and external resources

## **4. Network Infrastructure**

The university’s network infrastructure spans across all three floors, ensuring that students and faculty can easily access the resources they need. The network supports both wired and wireless connections and is managed to maintain high-speed, reliable access.

* **Wi-Fi Access Points:**

Distributed across the university for wireless coverage.

* **Wired Connections:**

Ethernet cables connecting PCs and servers within each lab

* **Network Security:**

Firewalls and security protocols to ensure safe access to resources

## **5. Summary of IT Assets**

* Number of Floors: 3
* Number of Computer Labs: 10
* Total Number of PCs in Labs: 320 PCs
* Total Number of Servers: 10 Servers (1 per lab)
* Total Number of Routers: 10 Routers (1 per lab)