

Fr. Conceicao Rodrigues College of Engineering

Equipment / Facility Details

Name of Department	Computer Engineering
Name of Facility / Equipment	Meghdoot Cloud Server
Make	Intel
Model	Xeon E3-1225 v5
Current Status	Working

Specifications

Sr. No.	Equipment 1
1	Server 3.3 GHz / 8 MB / 80 w 1×8 GB Intel Xenon E3 -1225 v5 3.3 / 5 MB / 1×8 GB DDR 4 / DVD writer 2900ps (S/N G2TY1272)
	Total Quantity: 1

Equipment 1

Working Principle / Methodology of Equipment 1

- 1. Install a Bare-Metal Hypervisor:** Have students install Type-1 virtualization software (like Proxmox VE or VMware ESXi) directly onto the server hardware to experience setting up a clean cloud/hosting infrastructure.
- 2. Configure Virtual Hard Disks and RAID:** Guide students through the server's BIOS/UEFI utility to initialize storage, partition the drive, and understand the difference between hardware and software storage pools.
- 3. Deploy Local Network Infrastructure (DHCP/DNS):** Task students with installing a server operating system (like Windows Server or Linux Ubuntu Server) to configure and activate automated IP addressing for local client machines.
- 4. Create and Assign Network File Shares:** Direct students to build a localized File Server, creating distinct user groups (e.g., "Students" vs "Faculty") to manually configure security and read/write file permissions.
- 5. Host an Enterprise Intra-Web Server:** Have students install Apache or Nginx services on the server, configure local firewall rules, and successfully deploy an internal testing website accessible by other computers in the lab.

List of Applications / Usages

1. Gain Practical Server Management Exposure
2. Understand Resource Allocation Concepts
3. Simulate Datacenter Compute Nodes

Equipment In-Charge

Equipment	In-Charge Faculty
Equipment 1	Dr. Supriya Kamoji

Technical Staff / Operator

Mr. Ajay Koli

Pricing / Access Policy (sample is shown below.)

User Category	Charges	Availability
Internal (CSE Dept.)	Nil	Mon – Sat
Other Departments (within Campus)	Nil	Mon – Sat
External (Industry / Academia)	As per Institute norms	Mon – Sat