

 <b>ATMIYA UNIVERSITY</b>	<b>NAAC – Cycle – 1</b> <b>AISHE: U-0967</b>	
	<b>Criterion 4</b>	<b>I &amp; LR</b>
	<b>KI 4.3</b>	<b>M 4.3.1</b>

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## Overview

There are more than 2000 computers/laptops available with the latest configuration of Apple, DELL, HP, (Intel Core i7, Core i5, Core i3), Servers & NAS Storage, surveillance system and networking devices (switches, routers).

Atmiya University has proprietary software including Microsoft volume license, MATLAB 7.0, Lab-view, University Management Suite, Pro-Engineer CAD, etc.

There are ICT enabled classrooms and computer labs. Over 3000+ LAN Points were augmented across the Campus include computer labs and offices, CCTV, the administrative departments including Accounts, Purchase, Examination, Hospital administration, etc. are fully equipped with ERP system. Etc.... the campus backbone network was 1 Gig backbone, Now we have planned to Upgraded 1 Gig to 10 for DATA, Voice and CCTV and 40 Gig for Wifi. Numbers of Wi-Fi Devices deployed in Faculty area, some place in lobi area, computer lab, administrative area etc... And we have planned to upgrade with Cisco and Aruba WiFi 6 enabled devices.

Details of the IT infrastructure are as under:

- More than 2 Gbps of bandwidth for the Internet.
- Highly efficient and secure HP Blade Data Center with HP c7000 blade chassis having a capacity to cater 8 full height blades.
- 5+ KM fiber backbone.
- Campus network work on cisco switches like Cisco catalyst 6513, 6509 core chassis switch with capacity to support up to 10G/40G/100G Networks for scalability and Cisco Catalyst switches.
- Fully functional Biometric attendance system for staff and students.
- Sophos 4500 Firewall which capacity of 2000+ concurrent users, Multiple of 10 Gig WAN and LAN Port.





**Server Room**



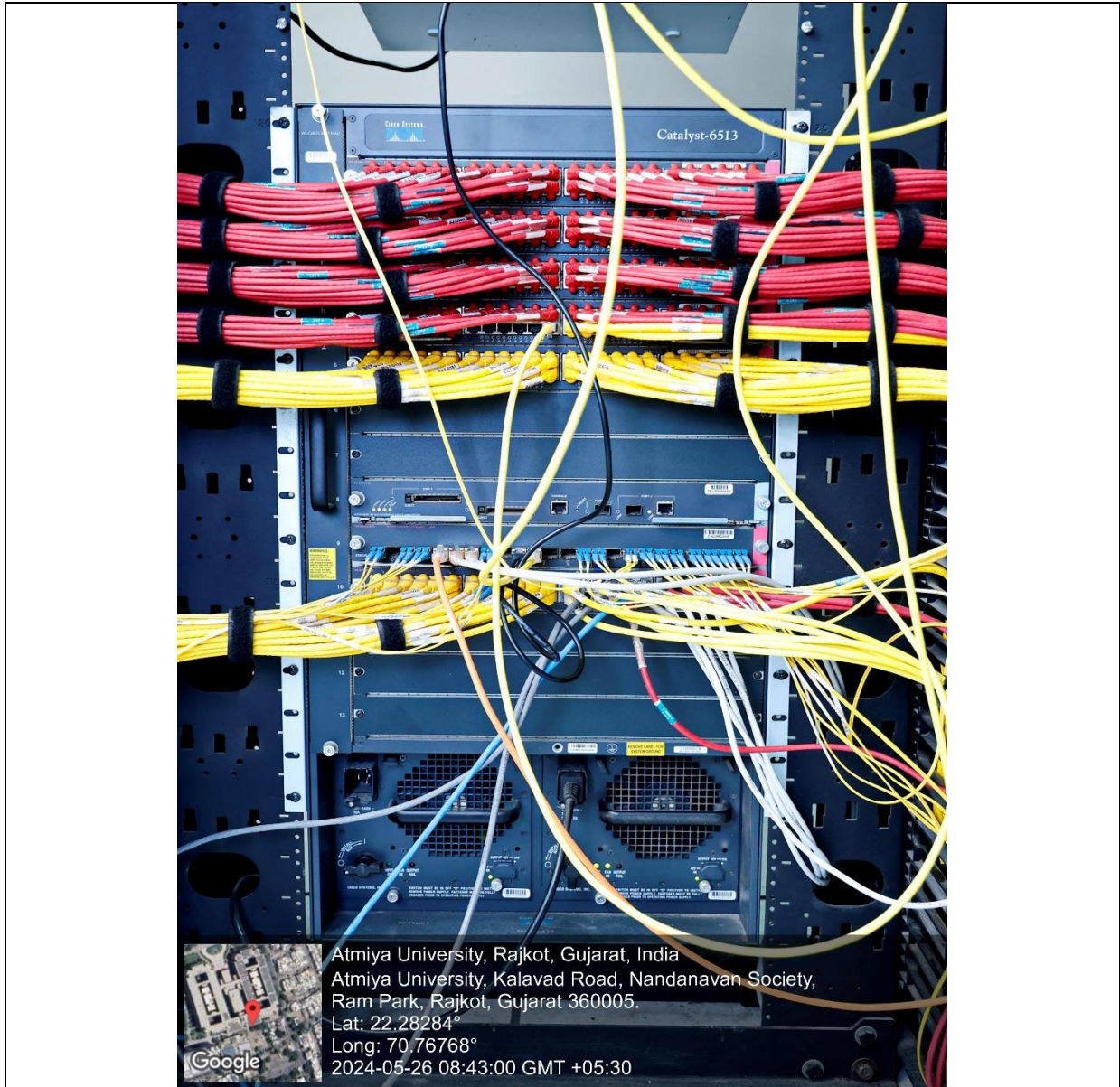
**Description and Purpose**

Synology NAS DS1821+ (8x 8TB/10TB Seagate HDDs) for university data, video, and CCTV storage (via DS1821+ and D920+). IBM X386 and backup server. Dedicated servers support accounting software, EMS (employee management, leave, maintenance, and procurement), cloud-hosted CMS, AU-LMS, NPTL, OPAC, INFEED, Oracle server and library systems





**Cisco 6500 Core Switches**



**Description and Purpose**

**Cisco 6513 and 6509 chassis switches** for the computer lab and **24/48 port Cisco switches** for common areas. Data points (1109 total) are patched to switches using 7 ft and 4 ft CAT6 patch cords. Switches are mounted on **19” 45U open racks** in the server room, interspersed with power bars, fiber panels, and jack panels for seamless connectivity and management.





**UPS**



Atmiya University, Rajkot, Gujarat, India  
Atmiya University, Kalavad Road, Nandanavan Society,  
Ram Park, Rajkot, Gujarat 360005.  
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**Description and Purpose**

**APC Symmetra LX UPS**, a modular and scalable uninterruptible power supply system designed for server and data center use. It features a high-capacity battery unit, providing power backup and surge protection. The UPS is mounted in a **19” server rack**, ensuring reliable power for connected IT equipment in a structured data center environment.





### IP/SIP Based EPABX Telephone Communication System



#### Description and Purpose

**IP/SIP-based EPABX telephone communication system** housed in a 19” rack. The setup includes **Siemens HighPath 4000** for managing telephony functions, integrated with structured cabling and active components for connectivity. The system is interconnected using CAT6 cables and network switches for efficient voice and data communication, supporting a robust telephony network within the premises.



**Server Rack**



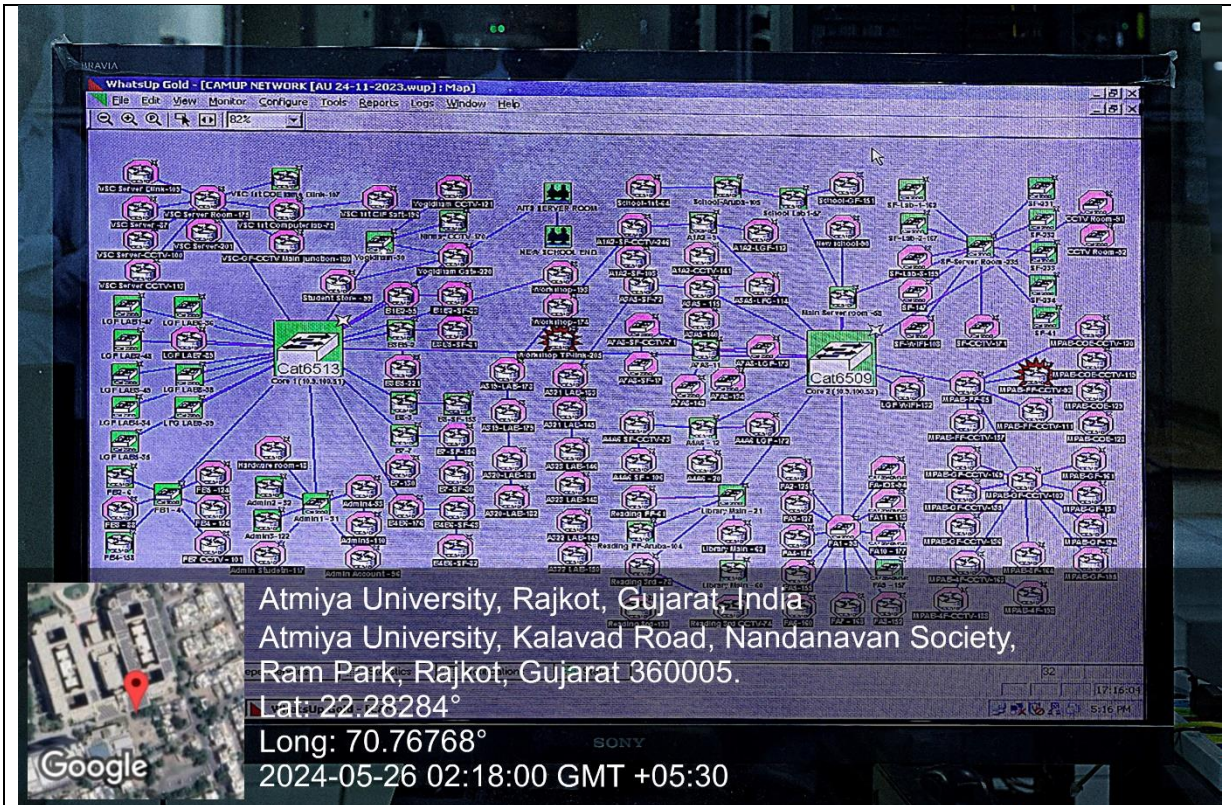
**Description and Purpose**

**Server Rack include** Many types of servers like NAS Storage (Faculty Data, CCTV & Video), Domain Server – Student & Staff Authentication for Internet & Storage, Antivirus Servers, Library Servers, Library Servers, LMS server, Account Server, Networking Monitoring Server, Employee Management System (EMS) hosting on Local Cloud, CMS Server, Maintenance Server, Mail Servers on Google Workspace, Application and Database Server, Bio-metric Application, CCTV Server





**Network Monitoring Server**



**Description and Purpose**

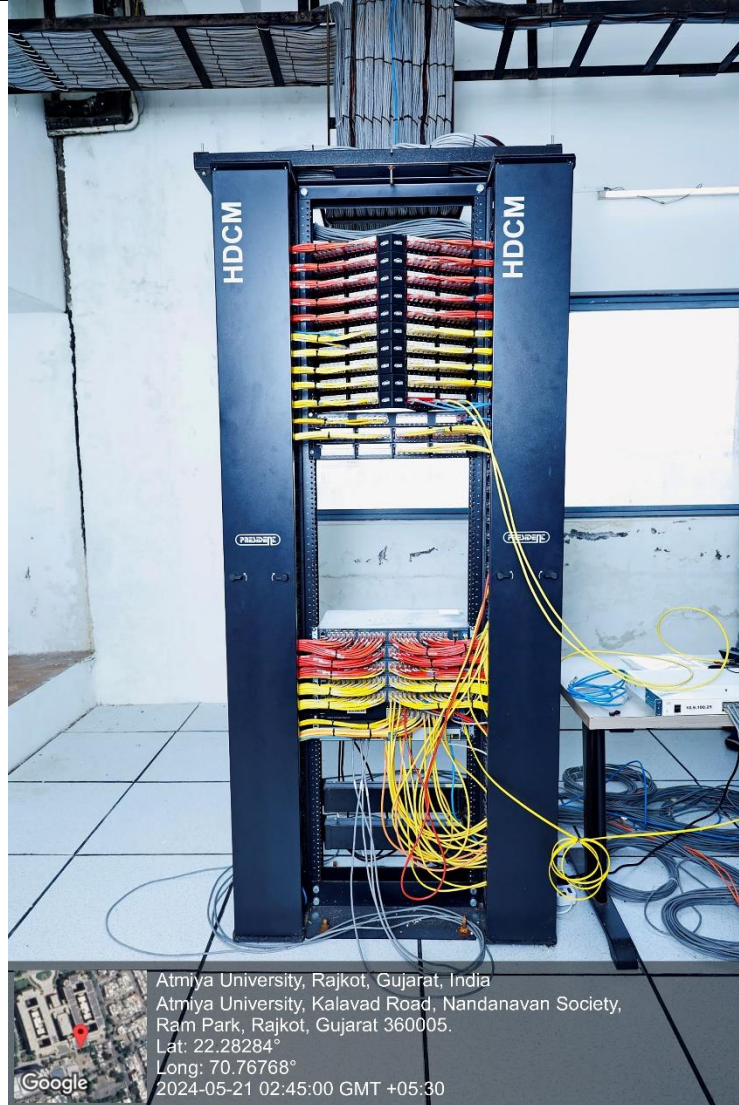
**Network Monitoring Server** running **WhatsUp Gold** software, displaying a detailed map of the campus network. Core switches (**Cisco Cat6513** and **Cat6509**) connect to multiple nodes, including labs, offices, CCTV, and server rooms, enabling real-time monitoring and management of network devices.







**Network Distribution Racks & Junction for various Building in Campus**



**Description and Purpose**

**Network Distribution Racks** serving as a central junction for various buildings on campus. It features a structured cabling system with organized patch panels and color-coded cables for efficient data distribution across the network. The rack ensures streamlined connectivity and management for campus-wide communication.





**Network Distribution Racks & Junction for various Building in Campus**



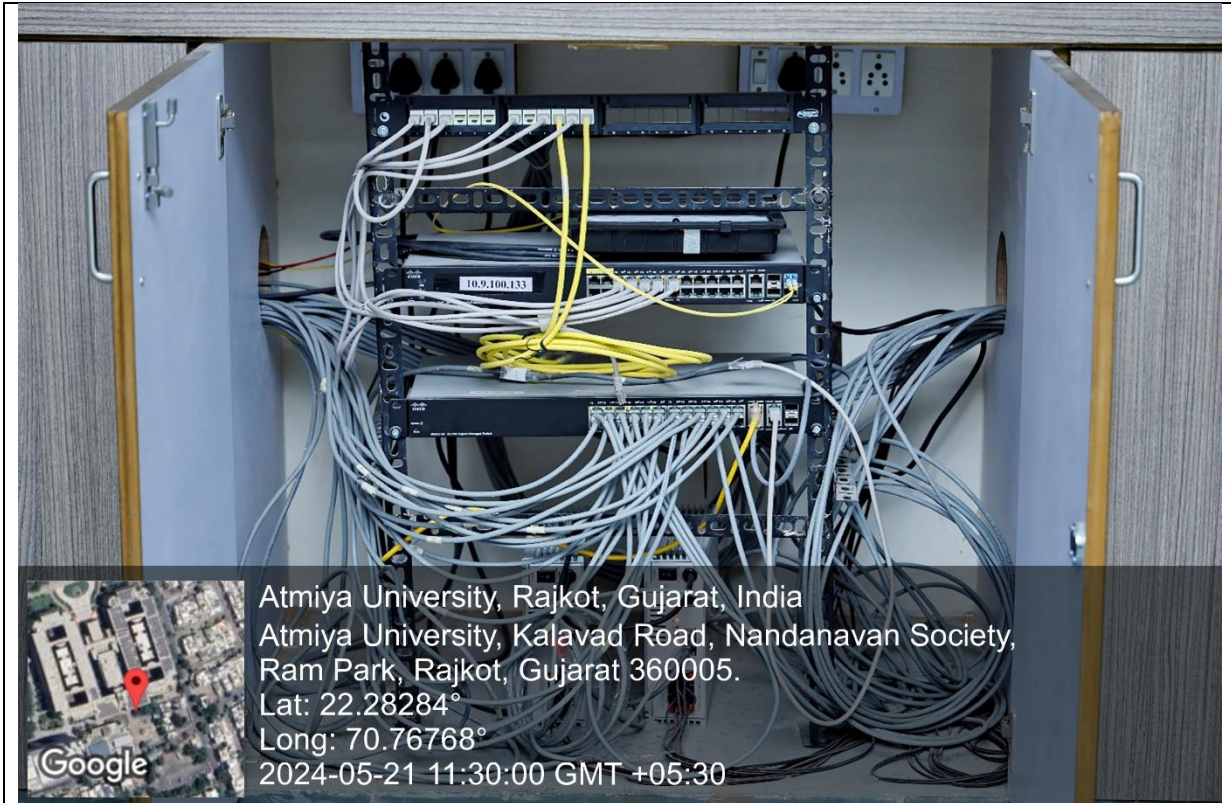
**Description and Purpose**

**Network Distribution Racks** for campus buildings, featuring structured cabling with color-coded patch panels for organized connectivity. The racks house switches and active components, ensuring efficient data distribution and network management across the campus.





**Network Distribution Racks & Junction for various Building in Campus**



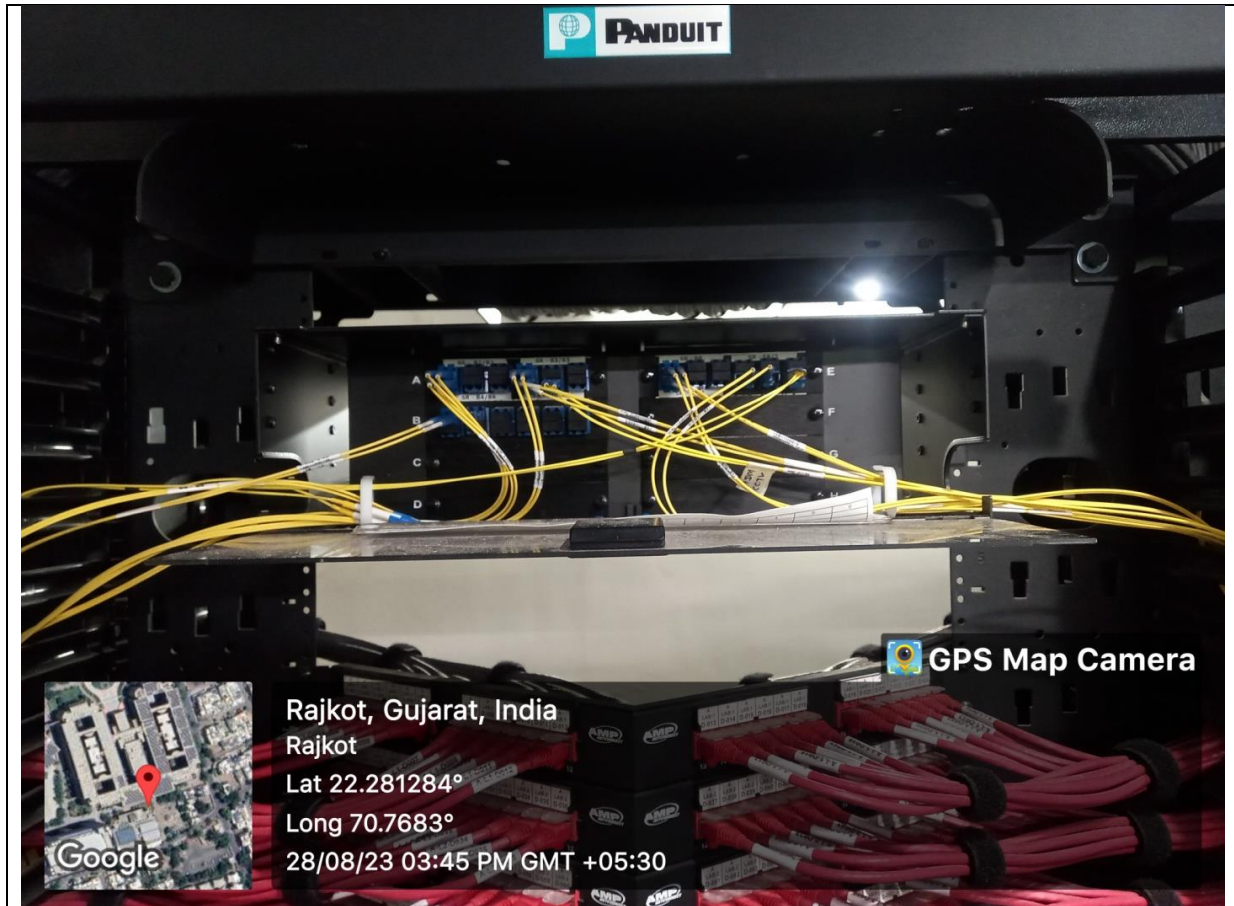
**Description and Purpose**

**Network Distribution Racks** for campus buildings, featuring structured cabling with color-coded patch panels for organized connectivity. The racks house switches and active components, ensuring efficient data distribution and network management across the campus.





### Fiber Network



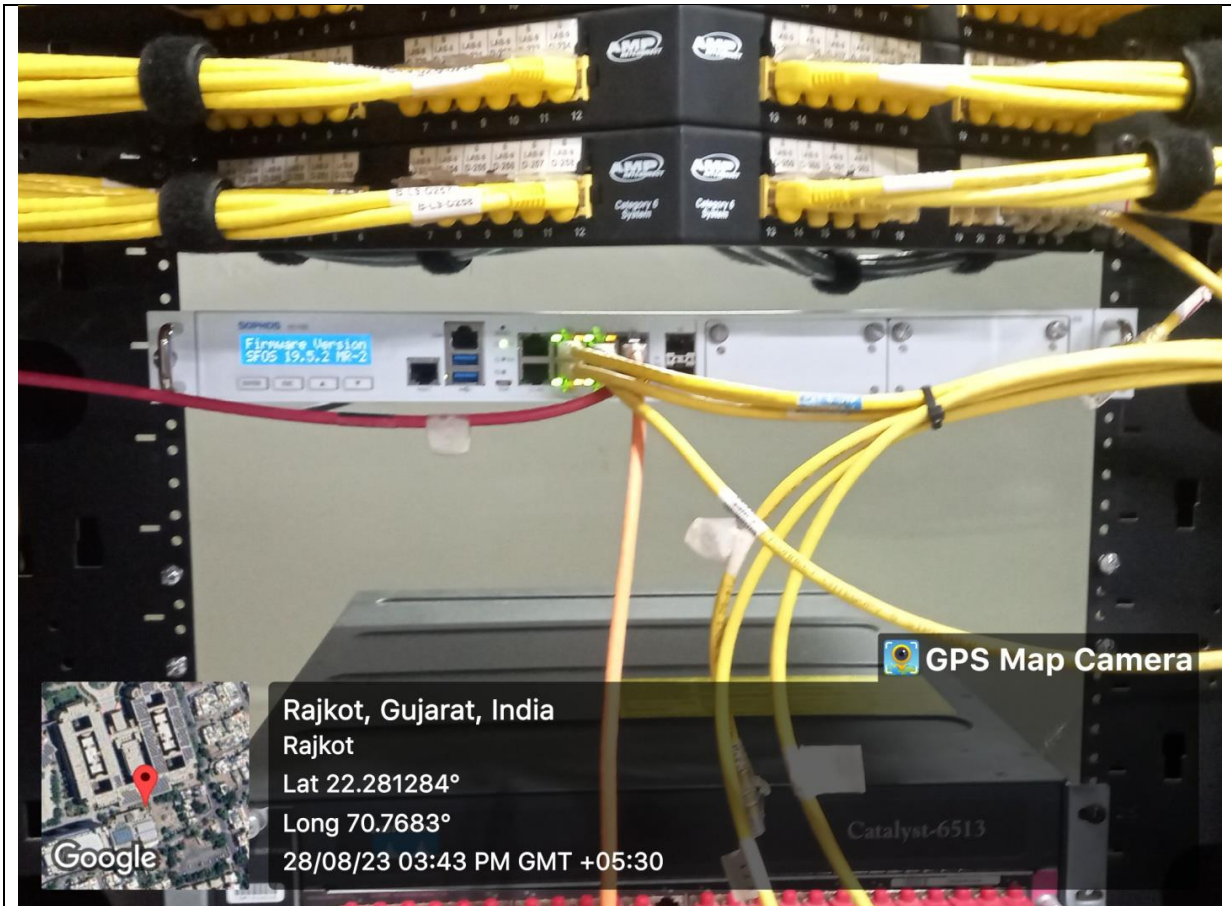
#### Description and Purpose

**Fiber optic network setup** housed in a rack, featuring **Panduit patch panels** for fiber termination. Yellow fiber cables are neatly organized and connected to designated ports, enabling high-speed and reliable data transmission across the network. This setup ensures efficient backbone connectivity for campus-wide communication.





### Sophos Firewall



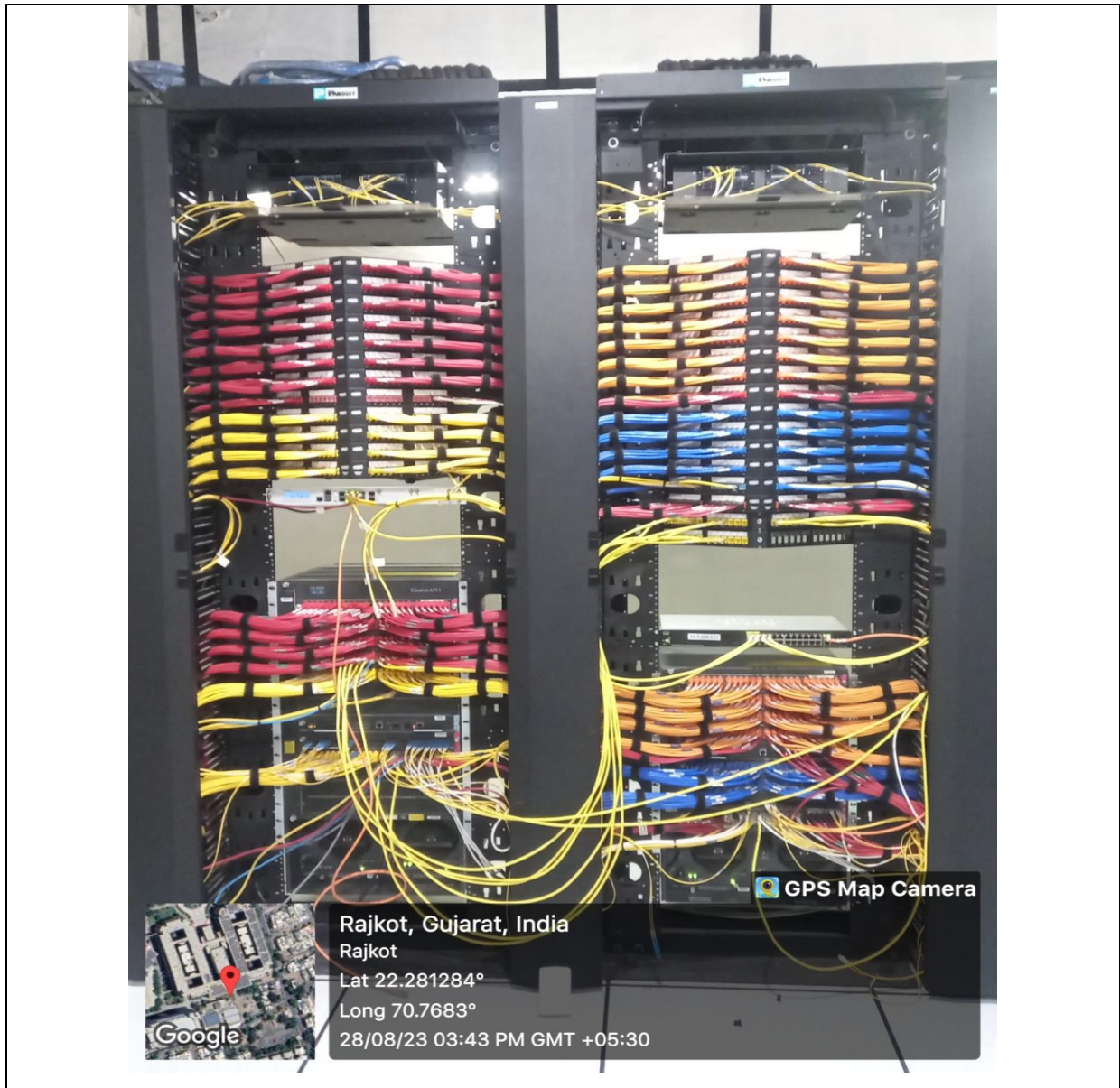
#### Description and Purpose

**Sophos Firewall device XGS4500 (SFOS 20.0.2 MR-2-Build378)** connected to a structured network setup with fiber optic and Ethernet cables. It provides advanced security, network management, and traffic filtering for the connected network infrastructure.





### LAN (Local Area Network)



#### Description and Purpose

**Structured cabling system** with multiple **Fiber and Ethernet patch panels** organized in racks. Yellow fiber optic cables and color-coded Ethernet cables are connected to active network switches, ensuring seamless backbone and horizontal connectivity for high-speed data communication across the network



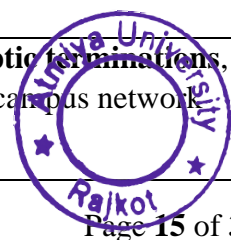


### Network rack



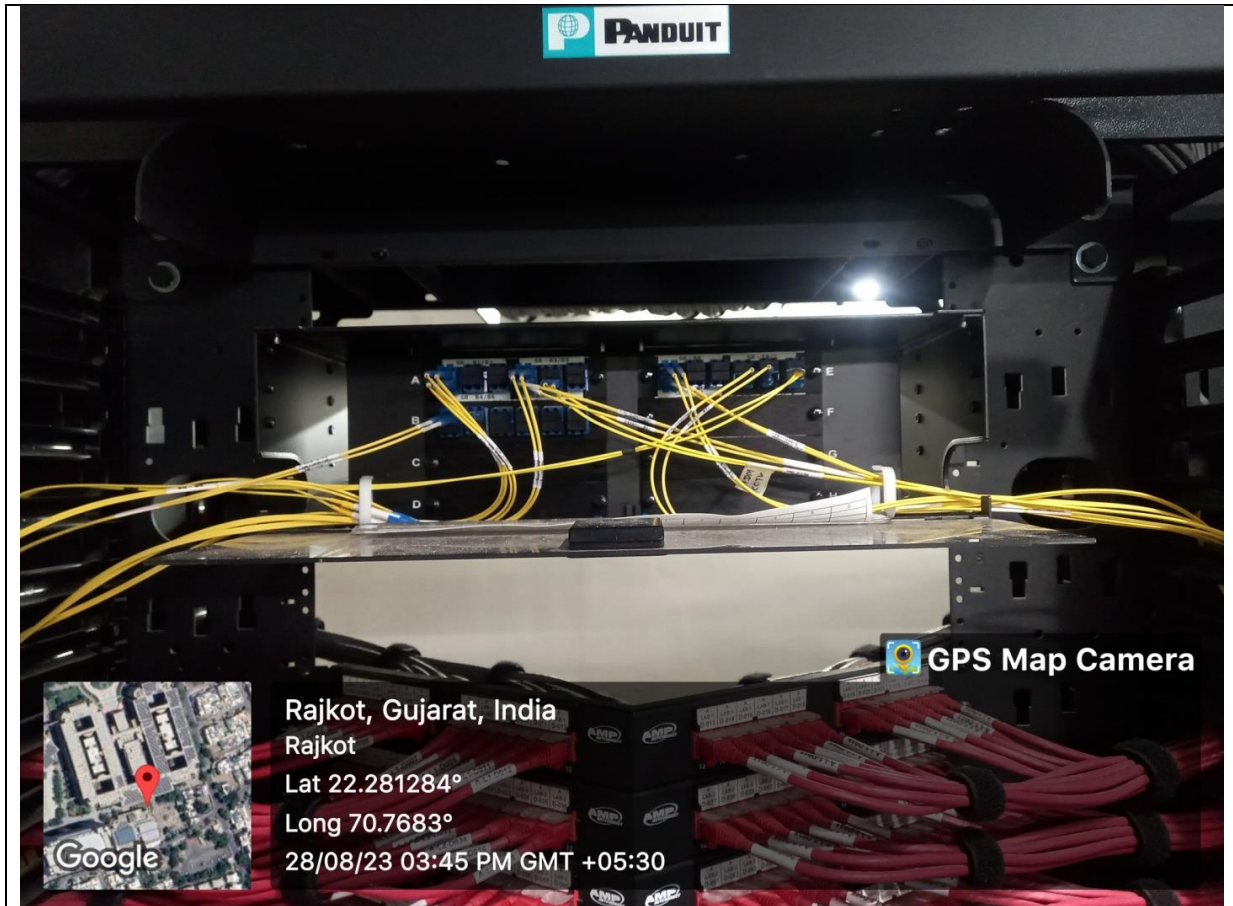
### Description and Purpose

The network rack houses **patch panels, switches, firewalls, and fiber optic terminations**, with organized cabling for efficient connectivity and management of the campus network infrastructure.





### Fiber Network



#### Description and Purpose

**Fiber optic network setup housed in a rack, featuring Panduit patch panels for fiber termination. Yellow fiber cables are neatly organized and connected to designated ports, enabling high-speed and reliable data transmission across the network. This setup ensures efficient backbone connectivity for campus-wide communication.**

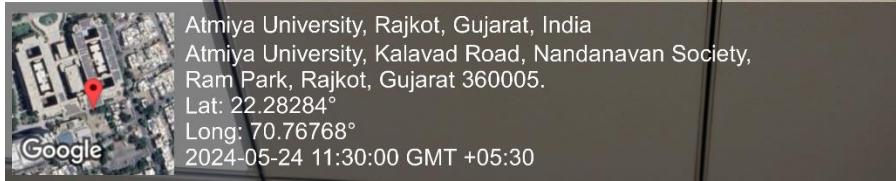






**Wi-Fi Device**

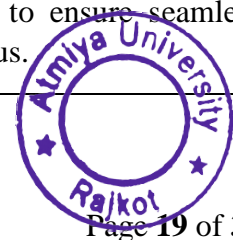






**Description and Purpose**

WiFi access points installed across various locations on campus, including faculty blocks, corridors, and labs. Devices include Aruba and other AP models, mounted on ceilings for optimal signal coverage. These access points are strategically placed to ensure seamless wireless connectivity for students, faculty, and staff throughout the campus.

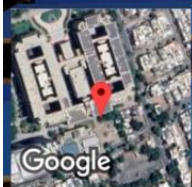




**Projects - ICT Enabled Classroom**



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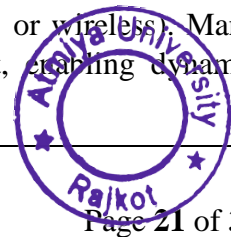
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2024-05-24 07:33:00 GMT +05:30





**Description and Purpose**

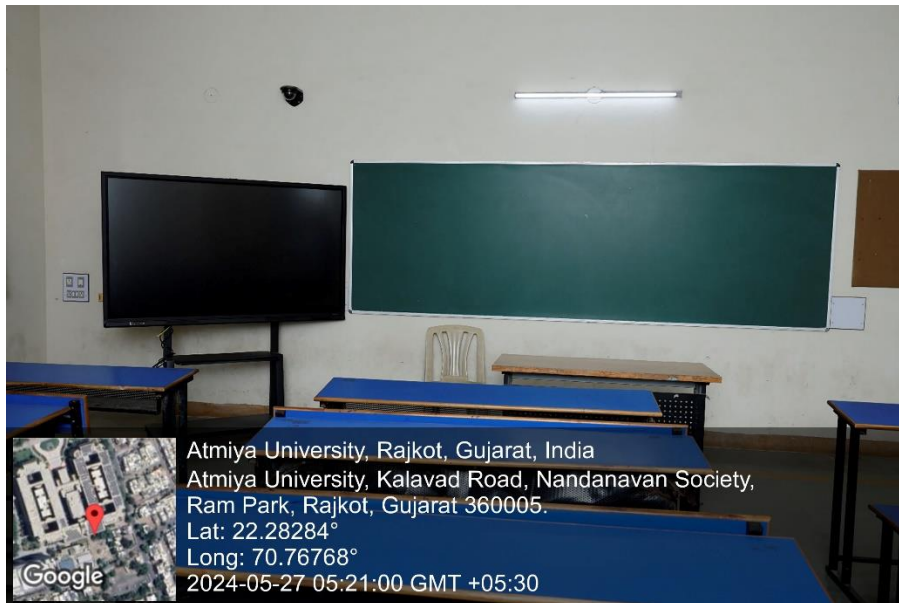
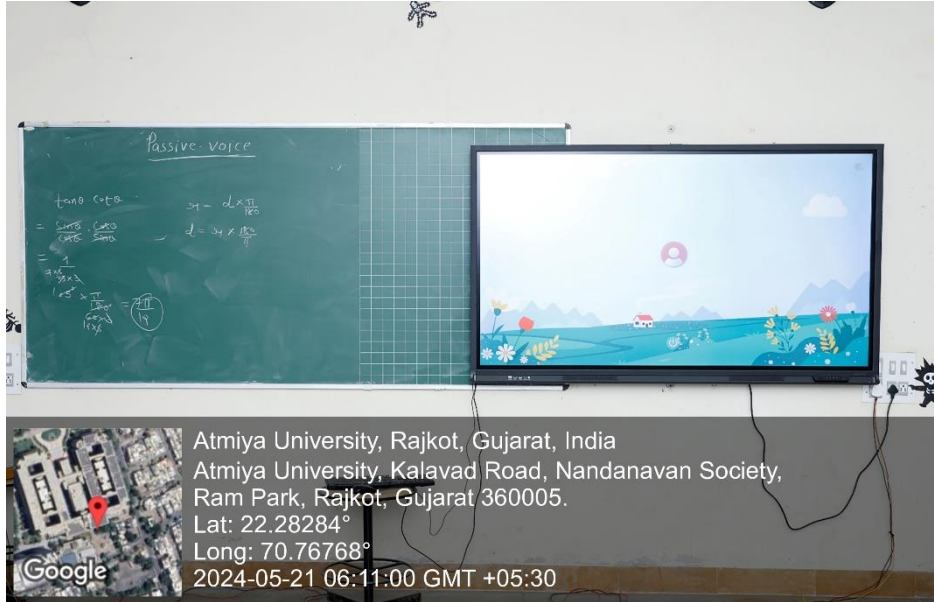
Projectors in **ICT-enabled classrooms** are advanced devices used to display visual content on large screens or walls, enhancing teaching and learning experiences. These projectors typically feature **high-resolution outputs (HD or 4K)**, **brightness levels suited for various lighting conditions**, and **multiple connectivity options** (HDMI, VGA, or wireless). Many also support **interactive features**, allowing touch or pen-based input, enabling dynamic presentations and collaboration.





**Interactive 75’ LED TV Flat Screen**

SS



**Description and Purpose**

**75” Interactive Multi Touch Display** on Portable Stand with Intel I5 Processor, 16GB RAM, 512 GB NVMe SSD OPS, Operating System Windows & Android.





### HP Plotter



#### Description and Purpose

**HP DesignJet T120 Plotter**, a compact, versatile, and efficient device designed for printing large-format documents like architectural plans, engineering drawings, and posters. It supports roll and sheet feeding, offering precise and high-quality prints. The plotter is equipped with Wi-Fi connectivity, allowing seamless printing from computers or mobile devices.





**Color Printer**



**Description and Purpose**

Brother MFC-J6710DW **Color Printer**, commonly used in universities for printing, scanning, copying, and faxing purposes. It supports multi-color ink cartridges, ideal for academic document preparation and high-quality outputs.







### Printer



#### Description and Purpose

**Brother DCP printer** is a compact, multi-functional device designed for printing, scanning, and copying, making it ideal for university office use. It ensures reliable performance and efficiency for daily document handling tasks.



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**IP-connected Intercom System**



**Description and Purpose**

**IP-connected intercom system** at the university enables seamless internal communication over a network. Its integration with IP technology ensures high-quality audio, call routing, and connectivity across multiple departments or buildings.



### Canon Copier



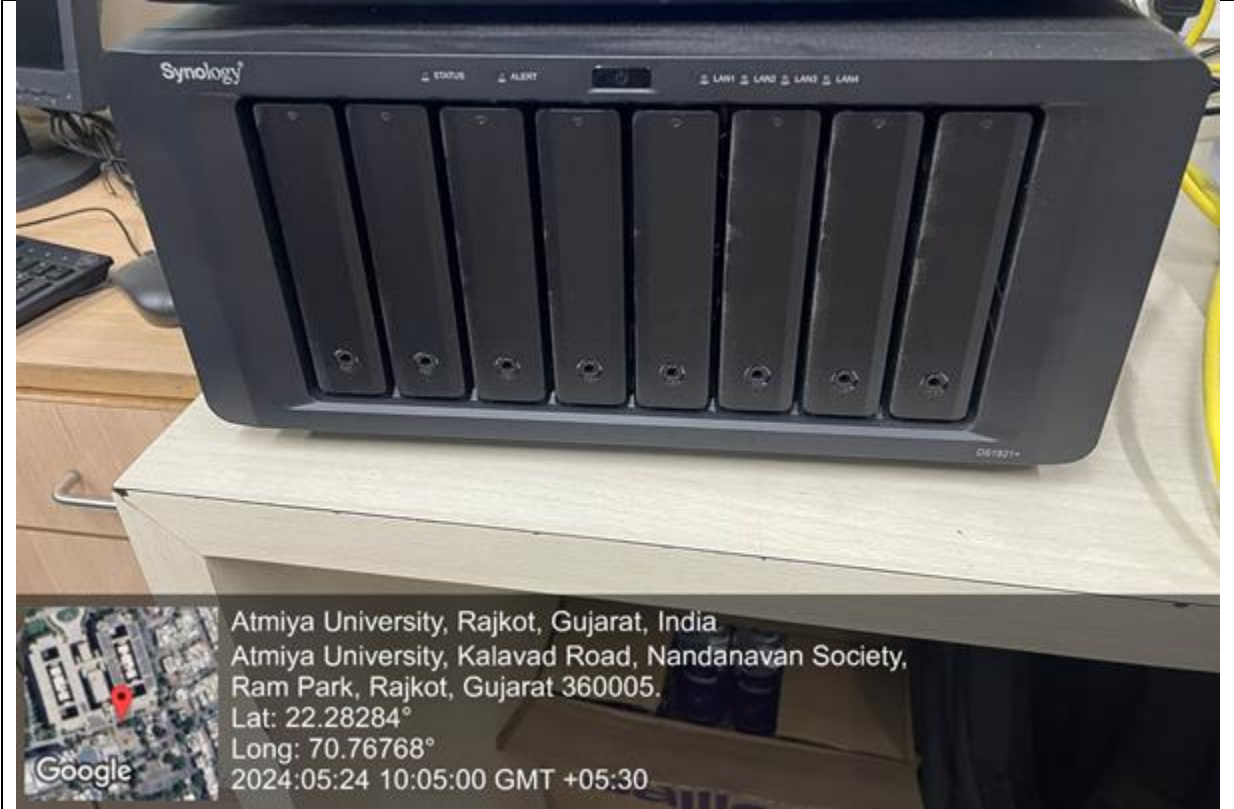
#### Description and Purpose

**Canon multifunction copier** at Atmiya University is designed for heavy-duty tasks like printing, scanning, and copying. With robust functionality, it supports high-volume document processing, making it essential for academic and administrative use in the university setting.



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**Synology DS1821+ NAS device**



**Description and Purpose**

**Synology DS1821+ NAS device** at Atmiya University provides reliable and scalable data storage solutions for managing and sharing files across departments. Its multiple drive bays and advanced networking options make it ideal for secure backups and collaborative work in an academic environment.

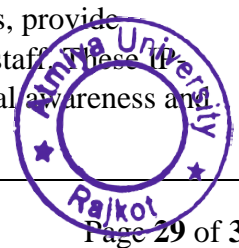


**CCTV Cameras**



**Description and Purpose**

The Atmiya University has implemented a robust **CCTV surveillance system** to ensure campus security. The cameras, strategically installed in different locations, provide comprehensive monitoring of activities, ensuring safety for students and staff. These IP connected cameras offer high-resolution video feeds, enhancing situational awareness and facilitating quick responses to any incidents.





**Apple iMac**



**Description and Purpose**

**Apple iMac** at Atmiya University is a high-performance desktop designed for professional and educational tasks. Equipped with a sleek design, Retina display, and macOS, it is ideal for multimedia projects, research, and administrative use, enhancing productivity in a modern academic environment.





**Apple Mac Mini**



**Description and Purpose**

Atmiya University, the **Apple laboratory** enables students to develop iOS apps using tools like **Xcode** and **Swift** on iMacs and Mac Minis, providing hands-on experience and fostering innovation

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