



सीमा मेमोरियल महाविद्यालय

हरसौर रोड, परबतसर, जिला- डीडवाना-कुचामन

SMC/PBC 2024/1/3.P1



DATE : 13/07/24

4.3.1: Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words

RESPONSE :

Overview:

Our institution is committed to providing cutting-edge IT facilities to support academic activities, research, and administrative functions. Regular updates and maintenance ensure our technology infrastructure remains state-of-the-art, with robust Wi-Fi coverage and substantial internet bandwidth.

Wi-Fi Infrastructure

- 1. Coverage:** Comprehensive campus-wide Wi-Fi, including academic buildings, libraries, administrative offices, and student accommodations.
- 2. Access Points:** Over 300 wireless access points ensure extensive coverage and connectivity with minimal dead zones.
- 3. Security:** Utilizing WPA3 encryption and secure authentication protocols for safe and reliable internet access.

Internet Bandwidth:

- 1. Current Bandwidth:** As of the latest upgrade in June 2024, our institution provides a total internet bandwidth of 2 Gbps.
- 2. Load Balancing:** Advanced techniques to manage network traffic efficiently, ensuring smooth performance during peak usage times.



Recent Updates:

June 2024 - Major Bandwidth Upgrade. Nature of Update: Increased total internet bandwidth from 1 Gbps to 2 Gbps.

Impact: Enhanced browsing speeds, reduced latency, and improved performance for high-demand applications such as video conferencing, online exams, and streaming educational content.

2. January 2024 - Wi-Fi Infrastructure Enhancement:

Nature of Update: Installation of additional access points and upgrading existing ones to Wi-Fi 6 technology.

Impact: Greater connectivity speeds, improved network efficiency, and better support for a higher density of devices, providing a seamless experience for students and staff.

3. August 2023 - Network Security Upgrade:

Nature of Update: Implementation of WPA3 encryption and multi-factor authentication for accessing the Wi-Fi network.

Impact: Enhanced security measures to protect user data and prevent unauthorized access, ensuring a safe online environment.

4. March 2023 - Cloud Services Integration:

Nature of Update: Integration of cloud-based services for data storage, collaboration, and application hosting.

Impact: Increased accessibility to resources and applications from anywhere on campus, promoting remote learning and collaboration.

5. November 2022 - Learning Management System (LMS) Enhancement:

Nature of Update: Upgradation of the LMS platform to support more interactive and multimedia content.



Impact: Improved user experience for online courses, with better tools for virtual classrooms, assignments, and assessments.

6. July 2022 - Server Infrastructure Upgrade:

Nature of Update: Replacement of old servers with new, high-performance servers and upgrading to SSD storage.

Impact: Faster data processing, reduced downtime, and enhanced overall system reliability.

7. February 2022 - IT Helpdesk System Update:

Nature of Update: Introduction of a new, user-friendly IT helpdesk platform for reporting issues and tracking resolution status.

Impact: Quicker response times, better tracking of IT support requests, and improved user satisfaction.

IT Support Services:

Helpdesk: A dedicated IT helpdesk available 24/7 to assist students and staff with any technical issues or queries.

Training: Regular training sessions and workshops to help users familiarize themselves with new technologies and updates.

Maintenance: Routine maintenance and proactive monitoring to ensure the IT infrastructure remains in optimal condition.

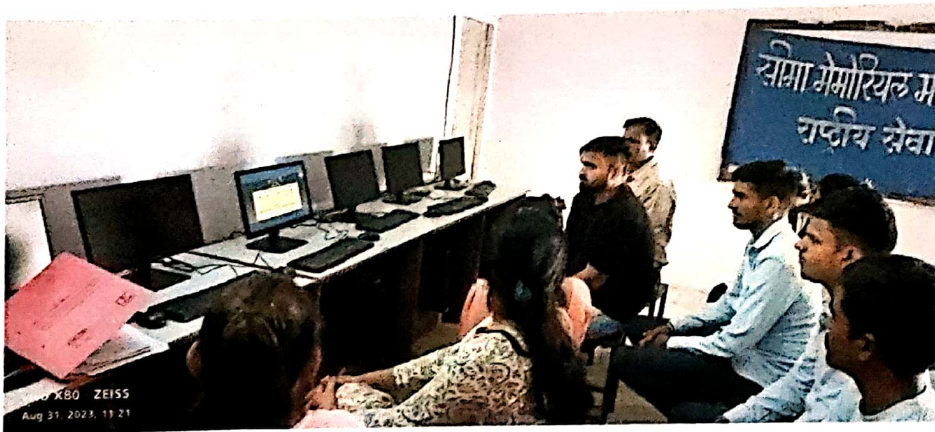
Future Plans:

Expansion of Bandwidth: Plans to further increase the internet bandwidth to 3 Gbps by mid-2025 to accommodate growing digital needs.

Smart Classrooms: Introduction of more smart classrooms equipped with the latest AV technologies for an enhanced teaching and learning experience.

AI and Analytics: Implementing AI-driven tools for better network management and predictive maintenance.

By continually updating our IT facilities, we ensure that our institution remains at the forefront of technological advancements, providing our community with the tools they need to succeed in a digital world.



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