

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.

The Institute is committed to providing state-of-the-art IT infrastructure and services. With the growth of users, IT services and increasing internet bandwidth demand, the institution has scaled up the switching capabilities and implemented latest managed through optical fibre cables and Wi-Fi access. The Institute has high-end core switches and servers. The upgradation of computer systems is taken up on periodically. The printers and scanners are also upgraded with new additions to the laboratories, office, library and departments. The college annually purchases/upgrades and replaces or adds a fleet of computers, hardware's, etc. as per the requirements. The IT infrastructure is continually upgraded. The bandwidth has been progressively increased from 50Mbps to 500 Mbps over a period of 25 years to suit the demands. For ease of access, all blocks have been enabled with Wi-Fi (40 ROUTER). All the seminar halls have been installed with LCD projectors. Biometric scanner based attendance capturing system is upgraded for faculty members. Institute has 01 Interactive touch panel display, 08 Interactive smart classroom board, 10 biometric time and attendance system, 10 lecture capture system.

Description on IT facilities

The IT facilities available in our college can be summarized as follows,

LAN Facility

There are 45 data network switches (Giga /Megabyte) and 121 CCTV cameras. 500 Mbps of internet connectivity is shared across the campus.

Server configurations in computer centre

There are 02 servers with HP and IBM Xeon Processor, 8 GB RAM, 1.0 TB hard drive, which are served as online examination and lecture capture system.

Work station

1090 desktops are provided to all department labs with configuration of Intel core i3, i5 (2nd, 4th and 7th generation) 4GB and 8GB RAM, 500GB and 1 TB hard disks with LAN connectivity.

Software

Windows systems and applications, ERP Cloud based, Microsoft Campus Agreement, including Intune Open and Office 365 Pro Plus Open Faculty, Sophos XGS 3300 Firewall, Seqrite antivirus software, the institute's language laboratory is equipped with Orell Talk pro-version (lifetime license) for 01 teachers and up to 20 student consoles, accommodating 500 users. also use open source operating systems such as Fedora, Ubuntu and centos.

Printers

56 Laser jet printers, 5 Xerox machines are provided across the campus for academic and administrative purposes.

Updates and up gradation

Updates are maintained regularly through WSUS (Windows server Update service) and antiviruses, firewall are updated through cloud portal.

Wi-Fi

40 Extendable Wi-Fi access points are placed from 15/4/2023 in various places like library, corridor, Labs.

Wi-Fi access is provided to all the students which is monitored and controlled by Omada application server at the computer department for secure content access. All access points are routed to a Wi-Fi controller in the Computer center where configuration and updates are maintained in a centralized fashion. Wi-Fi access is provided to all the students which is monitored and controlled by Omada application server at the computer department for secure content access. All access points are routed to a Wi-Fi controller in the Computer center where configuration and updates are maintained in a centralized fashion.