4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection

The Institution is committed to update its IT infra structure facilities to cater to needs of the students ensuring effective and outcome-based teaching-learning.

Hardware and Software Facilities

- The infrastructure is powered by cutting-edge servers - Dell PowerEdge R-750 Dell PowerEdge R-740 - enabling robust efficiency and bolstering research activities.
- Up-to-date technology is a top priority for the Institution, which has 1953 computers with i5 processors, 16GB RAM and 1 TB Hard Disk Drive, and ensures regular updates and replacements to create an ideal learning environment.
- A comprehensive software suite is provided in every department by the Institution, guaranteeing a standardized and efficient computing environment.
- The list of software includes Microsoft Academic Alliance, SQL, MATLAB 2018, Cadence, Tanner EDA, Xilinx XE, CST Studio, Arduino, Philips Flash utility, Flash Magic, Keil U Vision, Ansys, Solid Works, Staad Pro, Rational Rose, SQL, Visual Studio, ITell Language Software, SPSS Software.

Networking Facilities

- Five servers are housed in a central server room, which seamlessly connects and facilitates campus-wide system operations with efficiency.
- Dual leased lines (BSNL& JIO) provide uninterrupted internet connectivity with 2.6 GBPS speed and 256 access points (APs) to ensure seamless connectivity for students, faculty, and staff by providing WiFi access across the campus.
- All Departments, libraries, and offices are connected through a robust Local Area Network (LAN) for efficient operations.

Security Features

- A Sonic Firewall, which has port blocking and content filtering features, is used to fortify the Institution's network security, providing robust protection against potential threats and unauthorized access through the internet.

- Cyber security is ensured by periodically installing and updating antivirus software on all desktops and laptops, ensuring a secure computing environment for everyone in the Institution.
- Campus security is ensured by the Institution through a network of cameras placed across the campus and a secure entrance gate, which provides robust security measures for monitoring and safeguarding the community.

ICT Facilities
- Smart Boards, Projectors, and Smart TVs are present in classrooms, seminar rooms, and conference halls of state-of-the-art facilities, providing immersive and interactive learning environments to enhance the educational experience.
- An advanced media center to experience innovation is available at the Institution dedicated to crafting high-quality E-contents, fostering a dynamic and immersive learning environment for students and educators.
- The Institution places safety above all else, with numerous CCTV cameras strategically placed throughout the campus and a Security Gate, which ensures vigilant security measures to protect and monitor unauthorized entries.

The Institution remain steadfast with its mission to harness the power of IT to enrich, teaching-learning and research experiences for all the members of the academic community.

Additional Information

File	Link to the Document
Updation of IT facilities and Internet Bandwidth, IT Policy	PDF