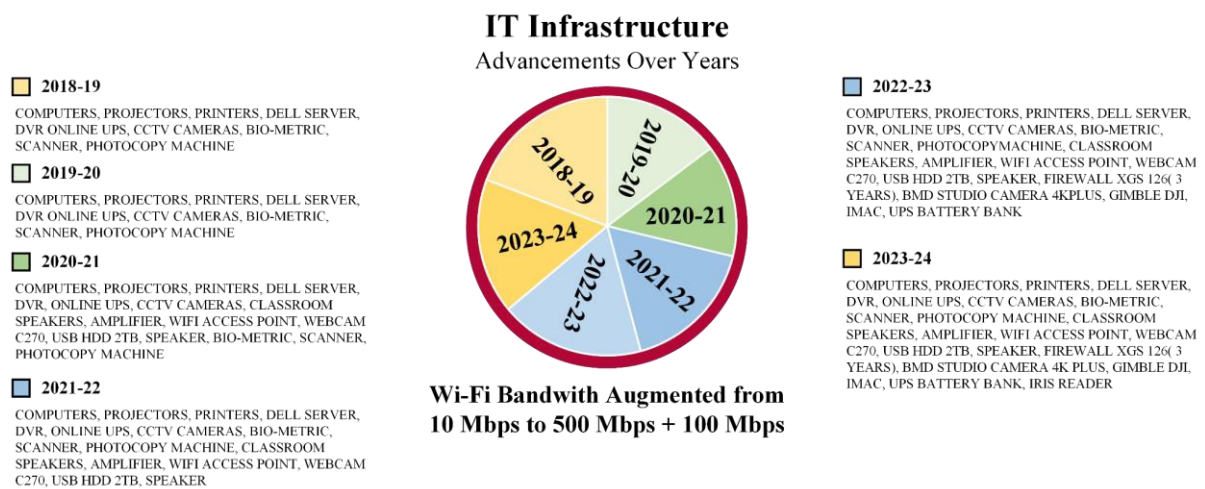


4.3.1 Institution frequently updates its IT facilities and provides sufficient bandwidth for Internet Connection

Response:

The college employs advanced IT infrastructure, incorporating cloud computing, virtualization, and strong networking solutions to meet academic and administrative demands. Regular updates to hardware, software, and systems demonstrate adaptability to evolving technology. The institution's IT policy includes provisions for frequent updates to facilities, ensuring sufficient bandwidth for internet connectivity, and implementing strong cybersecurity measures for which a separate budget has been approved.



IT Upgradation

ICT advancements have revolutionized teaching-learning, shifting from traditional methods to dynamic ICT-oriented approaches.

- 52 Smart Classrooms equipped with **Projectors/Monitors, Smartboard, LAN cable, and Wi-Fi.**
- 366 computers are available on campus, **332** computers are used exclusively for academic purposes, and 100 desktops have been added in the last 3 years.
- Desktops on the campus have been upgraded from Dual core to **Core i3, i5 and i7 processors** in 2021 and 2022.
- **ERP software** has been used since 2020 to manage all administrative and academic processes online. The entire data right from admissions to the issue of consolidated marks is maintained through it.

LAN and Wi-Fi

- Structured Network Cabling is in place to manage the entire network.
- Broadband internet speed increased from **10 Mbps to Leased Line 500 Mbps**

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- **500 Mbps Wi-Fi speed** covering campus and an **additional 100 Mbps speed** in the administrative block.
- Campus is networked through **500 Mbps (LAN)** and backbone connectivity is through **100 Mbps through CAT-6**.
- All the computer labs are connected to **500 Mbps network switches with 100 Mbps through CAT-6 as backbone connectivity**.
- All **Wi-Fi Access Points (49)** support **100+ concurrent users with 2.4/5.0 GHz bandwidth**.
- Wi-Fi connectivity is ensured through access points from a centralized access controller.
- Wi-Fi speed of **450 Mbps to 850 Mbps** throughput is available **in each AP**.

Cyber Security

- Firewall security is ensured through **Sophos Firewall XG126**.
- **Application-level bandwidth** and quota management are scheduled.
- **IPS, Content filter, and AV scanning** in gateway mode.
- **Authentication-based user access** to connect to the internet.
- **Group-based security policy** assigned to different user groups to ensure no threats.

Hardware and Software

- Licensed and Open Licensed software for different academic requirements like C, C++, Oracle, LINUX, R Studio, SPSS 21, Canva.
- Software like **Corel Draw, KOHA, Office 365, Office 2007, Office 2016, Zoom, Tally, Envato, DSpace** and others.
- Operating systems **Windows 10 Professional and Windows 11 Home**.
- **G-Suite and Microsoft Teams** were purchased in 2020 to facilitate online teaching and learning during COVID-19.
- **Turnitin Software** was purchased in 2023 for plagiarism check.
- **TALLY ERP 9 (Prime)** was installed in the college office.

IT Facilities

The institution has well-equipped **e-content Creation Rooms – MDP Board Room** and **Multimedia Centre** equipped with high-quality **audio, video and live streaming devices**.

The institution has a well-established **e-Infrastructure** for all the stakeholders like the **ERP System** (<https://cims.mastersofterp.in/>) and the **College Website** (www.sxcjpr.edu.in) maintained by an alumnus.

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S. No.	ICT Devices	Capacity/Version	Quantity
1.	Computers	RAM 4GB – 8GB, i3 to i7 Processors, HDD 500GB- 1TB, LED Display, SSD 128 GB, Graphic Card 2-4 GB	366
2.	Projectors	LCD, some with in-built speakers(5W)	58
3.	Smart Boards	LED Panel/ Interactive Panel	8
4.	Printers	Eco-Tank/Laser/Inkjet	30
5.	Scanner	EPSON DS 530ii	1
6.	Photocopy Machines	Copy/Print/Scan	3
7.	Online UPS	10 KVA – 20 KVA	8
8.	Digital Podium	Mini PC, Mic, Visualiser	2
9.	Bio Metric	ZK SILK Bio Face Reader (00 users)	1
10.	EPBX	Panasonic KX-NS300-320	2
11.	CCTV Cameras	DAHUA Cameras	309
12.	IRIS Reader	ESSL AI FACE-MARS (Multiple Card Module 3000 Face Template Capacity)	7
13.	USB Hard Drive	2 TB - 4 TB	10
14.	Central Announcement System	AHUJA EMPILFIRE SSP-500DP with 77 Speakers	1
15.	Android Mobiles	2-3 GB RAM, 32-63 GB Storage	13
16.	Walkie-Talkie	Wireless Communication System	7

To optimize the use of computer labs, **workshops for village students are organized and lab access is granted beyond regular college hours.** This ensures practical learning opportunities through increased availability of resources for academic pursuits and social initiatives.