

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

EP CET's IT infrastructure development features regular upgrades to computers, servers, internet to meet evolving social media and online interface needs. Continuous internet facility enhancements address the growing reliance on web-based transactions and activities.

Internet: Internet bandwidth increased from 100Mbps to 1Gbps via a leased 1Gbps line with 1:1 contention, using fiber-optic technology.

Network Infrastructure: The college has upgraded the network infrastructure to support increasing bandwidth demands 100 Mbps to 1000 Mbps. This includes the deployment of high-speed wired (Cat6 cable) and wireless (Wi-Fi) Access Point Ruckus T750 (100 mtrs range), Ruckus R550/R650 (50 mtrs range) networks to ensure seamless connectivity across the campus.

Computer Labs and Workstations: The College upgraded the computer labs with high end systems to meet the requirements of modern software development, engineering simulations, and multimedia projects.

Wi-Fi: The institute provides 1Gbps Wi-Fi with 15 access points for 24/7 campus-wide internet access.

Server, Data Centers and Storage Solutions: With the growth in data generation and storage needs, college has invested in DELL Power Edge R730xd, RAM -128 GB, HD: 48 TB robust data center infrastructure and storage solutions. This involves an on-premises Windows 2016 R2 Server and backup systems to ensure data security and accessibility.

Cyber security Measures: College has implemented enhanced cyber security measures, which include Watch Guard Firbox M670 protection, IDS, data encryption protocols.

Surveillance of the Campus: Campus is equipped with 100 CCTVs cameras and NVR with 30 days backup.

Collaborative Tools and Software: Faculty and students routinely use collaborative tools and software to facilitate teamwork among themselves. This includes communication tools (e.g., Microsoft Teams, Slack), project management platforms (e.g., Asana, Trello), and virtual collaboration environments (e.g., Zoom, Google Meet).

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All the classrooms are equipped with ICT enabled smart boards and laboratories with LCD projectors with Wifi facilities, through which hybrid mode of classes were effectively conducted

LMS :The institute has e-learning platform (LMS) called Quiklrn for outcome-based education which helps all the stakeholders in terms of education, project-based learning, CO-PO mapping, flipped class, etc.

In order to enable smooth academic, teaching-learning, and internet access, the institute had 565 desktop computers in the academic year 2022-23 (745 desktop computers in 2023-24) and 13 laptops in its computer center, digital library, Laboratories and offices.

The entire campus including classrooms, labs, examination section, administrative office, library, hostels, staff rooms etc., are connected through Local Area Network (LAN) for effective and uninterrupted usage of the internet.

The college has 28 printers/printer-cum-scanner and 2 reprographic machines spread over the departments, library, examination section and administrative office.

To ease the official communication, staff and students are provided with individual official e-mail IDs under the domain name eastpoint.ac.in

The library is fully automated using an Integrated Library Management Software called Easylib which provides access to digital resources.



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