

### **4.3.1 Institution frequently updates its IT facilities including Wi-Fi**

VJEC IT Infrastructure includes 586 computers. All are connected to the LAN. We have a leased line internet connectivity of 600 Mbps and 20 Mbps broadband. The network was secured by Sophos XG 450 firewall. The Wifi controller is Aruba. All departments have their computer labs.

The institution uses 6 IBM servers and 1 storage server with SAS technology to make the data safe. The Active directory is configured on the Windows 2008 enterprise server. The systems on the college's local network work under this server. A user is created for every member of the institution. Users get their desktop, documents, and one network drive based on the group policy on the college storage server. The campus has two server rooms, one at Vimal Jyothi Engineering College and another at Vimal Jyothi Institute of Management and Research. Data and mirror copies are replicated and stored in these two locations.

The Wi-Fi network is managed by an Aruba Instant On-site controller and is supported by a core switch consisting of Netgear ProSafe M4100-12GF and Netgear ProSafe GS748T switches. There are a total of 110 access points in use, comprising 11 Aruba access points and 99 Netgear WAC750 access points.

Academic and Administrative data are stored using cloud storage, and using G Suite for education, Microsoft Office 365, and dhi software are the primary services used for data backup and protection. Apart from it, routine backup of important data such as financial statements is taken on hard disks and saved to Bluehost Shared Hosting service.

Apart from the Kerala state grid power consumption, KSEB -HT Connection, VJEC generates 50 kWA of energy through in-house solar power generation. Three diesel generators with capacities of 62.5KVA, 125KVA, and 250 KVA ensure the uninterrupted power supply inside the campus. Also, Online UPS of 200 KVA is also available on the campus.

## **Frequency of Update**

### **The Academic Year 2019-2020**

NIL

### **The Academic Year 2020-2021**

1. 20 PCs were purchased with the following configurations- Intel Dual core 10th Generation, 120 GB SSD, LG LED Monitor, DDR4 4GB 2666mhz.

### **The Academic Year 2021-2022**

- Three Monitor 15.1”.
- Thirty-five numbers of Dell Monitor 18.5”
- Six numbers of 17” Monitor.
- Twenty-five numbers of Keyboard and mouse.
- Six numbers of SSD 128 GB.
- Five numbers of HD
- Three numbers of VU LED TV 55”

### **The Academic Year 2022-2023**

- 35 PCs were purchased with the following configurations- intel core i5, DDR4 8GB RAM, 250 GB SSD, 18.5” LG Monitor, Logitech Keyboard, and Mouse.
- 45 PCs were purchased with the following configurations- i3, 12th Generation,8GB DDR4 RAM,250 GB SSD, LG 18.5” Monitor, AZUS Pro Board, Logitech Keyboard, and Mouse.
- 1 Nos-Dell monitor 20”
- 6 Nos, 17” Dell monitor
- 6 Nos, 2TB HDD

- 35 Nos, 18.5" Dell monitors.
- 6 Nos, 17" Dell monitor.
- 25 Nos, Logitech keyboard, and mouse.
- 6 Nos, 128 GB SSD.
- 5 Nos, 2 TB Hard disk.
- 1 Nos, 1TB HDD

**The Academic Year 2023-2024**

- 36 Nos Processor intel core i5 12th gen
- Mother Board Asus H610M 36

**Wi-Fi Details**

Wifi Controller: Aruba Instant On-site

Core Switch: Net gear ProSafe M4100-12GF & Netgear ProSafe GS748T

Number of Access Points: 110 Aurba 11, NetGear WAC750

### 4.3.2 Student Computer Ratio

File Description	Document
Student Computer Ratio	<a href="#">View Document</a>
Additional Information	<a href="#">Click Here</a>

