



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

### Descriptions on IT facilities

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

#### LAN Facility

There are 35 data network switches (Gigabyte), 18 POE network switches for access points, CCTV cameras. 350Mbps of internet connectivity is shared across the campus, where 350Mbps is shared for the students.

#### Server Configurations in Data Center

There are 02 servers with Xeon E-5 version-2, 16 GB RAM, 1.0 TB hard drive, which are served as Domain Controller (DC), Additional Domain Controller and Back up device - 5TB for NPTEL Videos in Digital Library server back up

#### Workstation

580 desktops are provided to all department labs with configurations of Pentium dual core i3, i5 3 to 11th generation with 2GB, 4GB, 8GB and 16GB, 500GB hard disk with LAN connectivity. 36 desktops with configurations of core i3 4GB, 500GB and dual core 250GB, 2GB hard disks are available to carry out academic and administrative work.

#### Software's

Windows 2008 server and Windows 2007-2011 multi point server available. We also use open source operating systems such as Fedora, Ubuntu, Sophisticated software like MATLAB, ANSYS, XILINX, MULTISIM, MAST, MASM, CC STUDIO, KIEL, MICROWIND, KICAD, EXPRESS PCB, TURBOC++, JDK8, STAR UML PYTHON, ANAKONDA, WIRESHARK, WEKA, PUTTY, MYSQL, DEV-C++, Auto CAD etc are available.

#### Printers

24 Laser jet printers, 2 Color Printers 3 Xerox centers and 5 scanners 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 antivirus are updated through cloud portal. Ram has been upgraded in 56 computers in 1GB to 2 GB.

#### Wi-Fi

10 Extendable Wi-Fi access points are placed in various places like Library, Corridors, Labs, Hostels, Canteen and Outdoor. Wi-Fi access is provided to all the students which is monitored and controlled by linux server at the IT department for secure content access. All access points are routed to a Wi-Fi controller in the Data Center where configuration and updates are maintained in a centralized fashion.

#### Bandwidth of the Internet Connection in the Institution

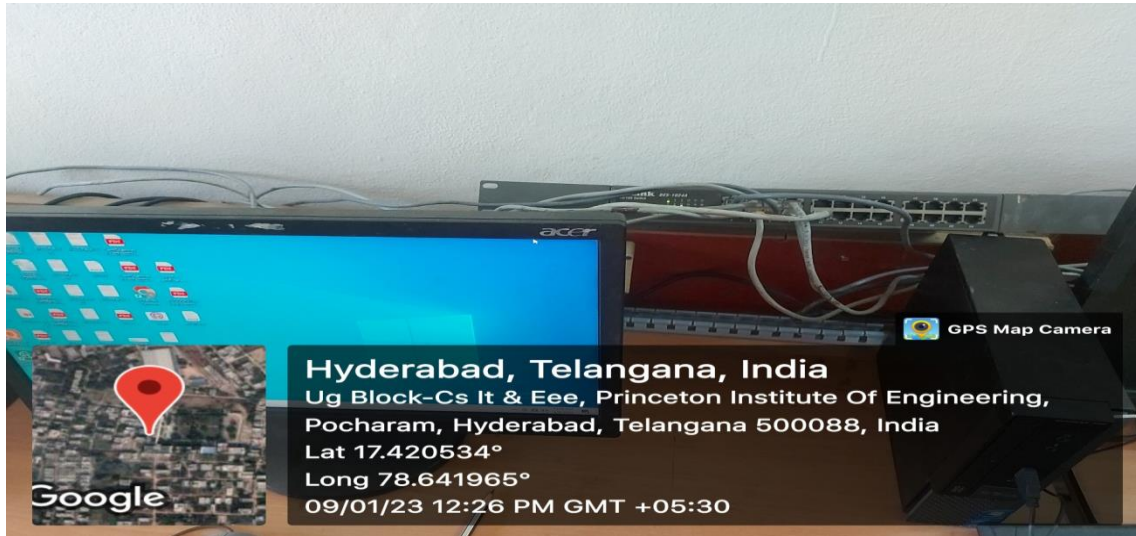
In the last academic year 2021-22 the Institution has provided 350 Mbps lines for Wi-Fi and LAN access, the administration implemented a strategy of offering Wi-Fi to the whole campus through 10 access points, which would be continuously updated in line with technical improvements.





## LAN Facility

### Data Network Switches



### POE Network Switches





CCTV Cameras

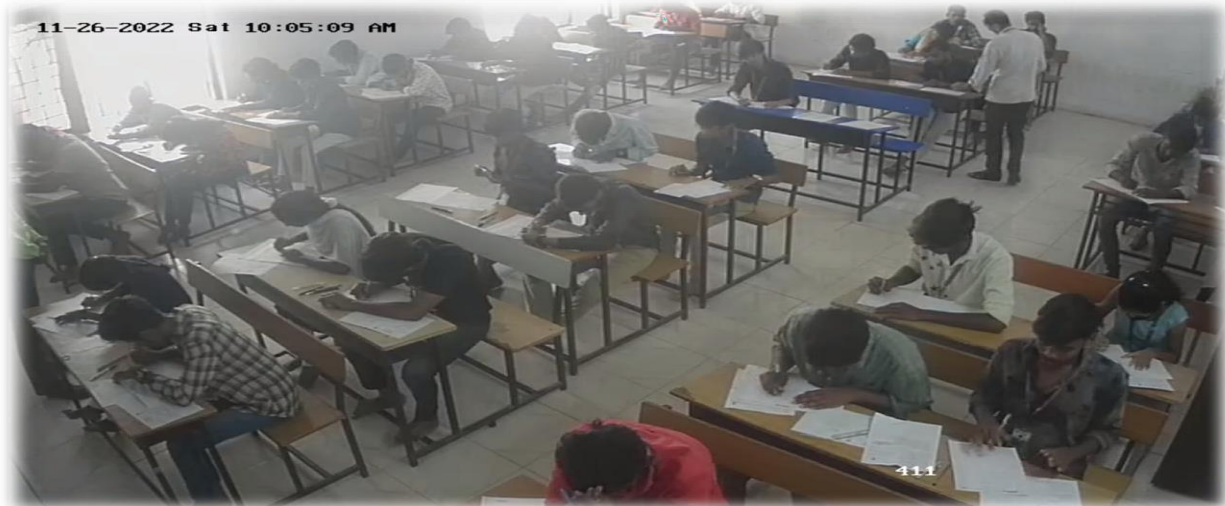


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### Class Room CCTV Capture



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## Internet Connectivity and Speed



## Internet Speed Test



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## Xerox Machines



## Printer and Scanners







## Work Station



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### Internet Service Provider -Jio

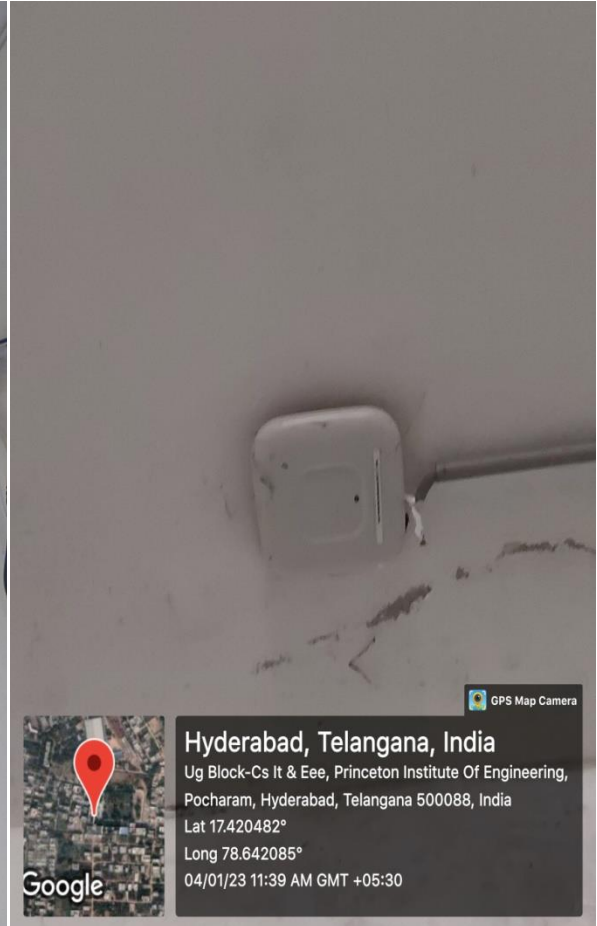
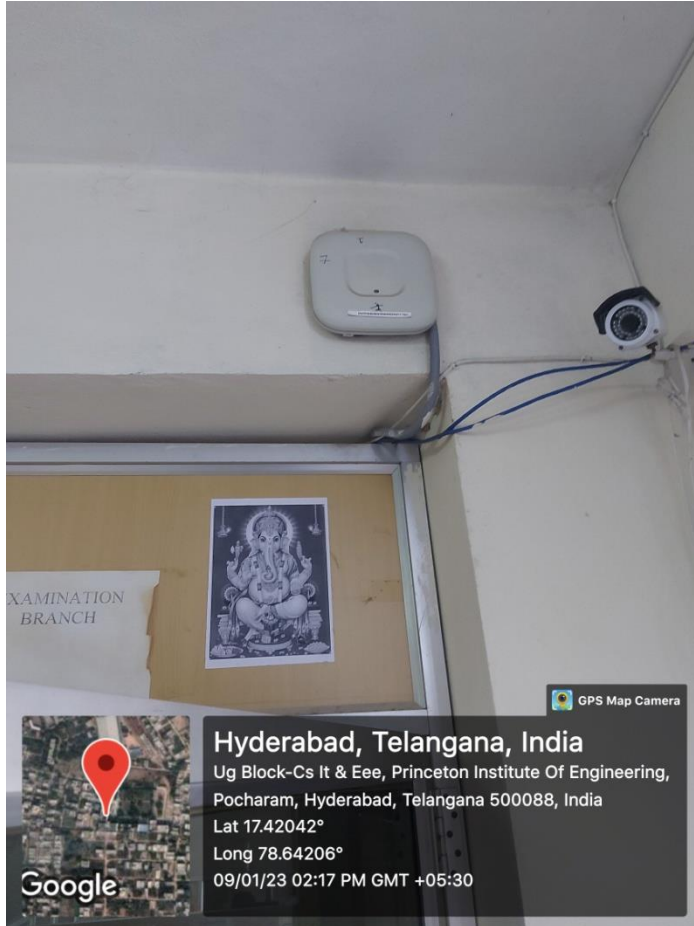


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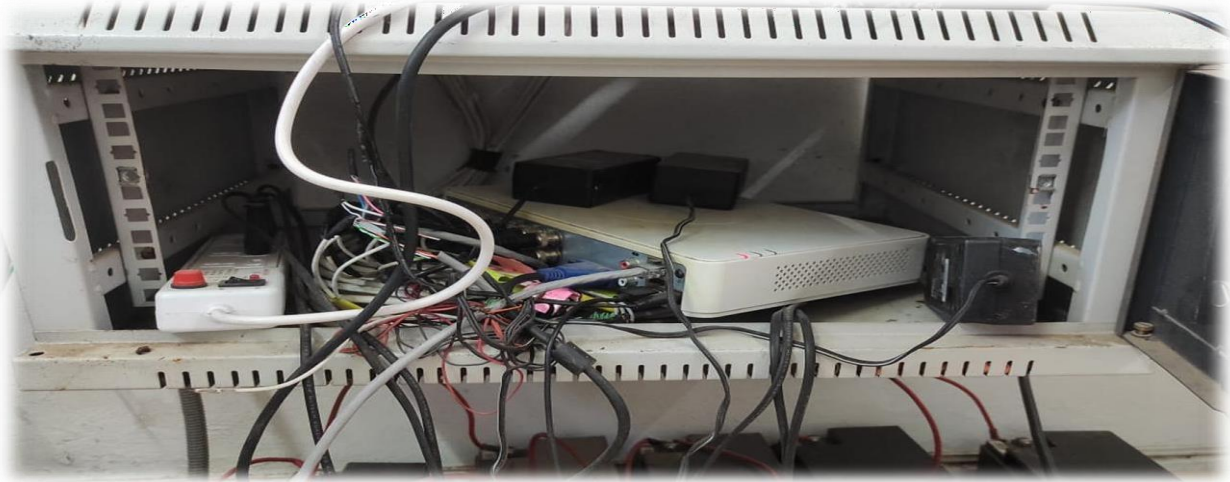
ISP Point



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## Wifi Access Distribution Switch



## Jio ISP Provider





## Online UPS 5 KVA



## Batteries







### Staff Biometric Device



### Student Biometric Device



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## Non-Teaching Staff Biometric Device



  
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**CLASS ROOM WITH STATE-OF-THE-ART ICT FACILITIES**

