



PRINCETON COLLEGE OF PHARMACY

(Affiliated to JNTUH, Approved by PCI, New Delhi & Accredited by NAAC)

Chowdariguda(V), Korremula, Ghatkesar (M), Medchal- Malkajgiri (Dist.) - 500 088

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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 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 2023-24 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.

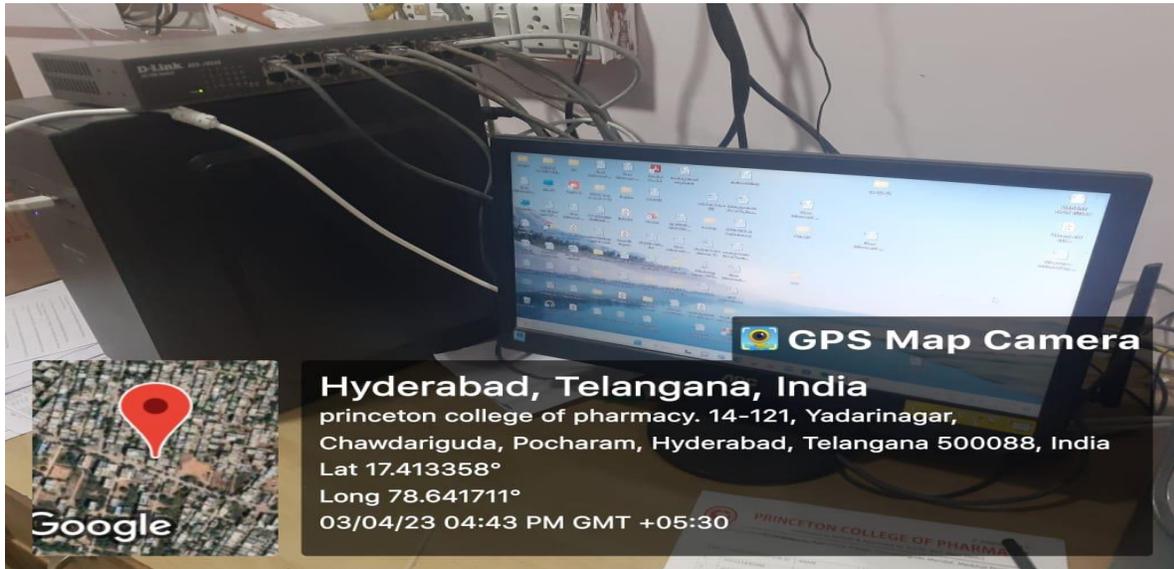


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LAN Facility

Data Network Switches

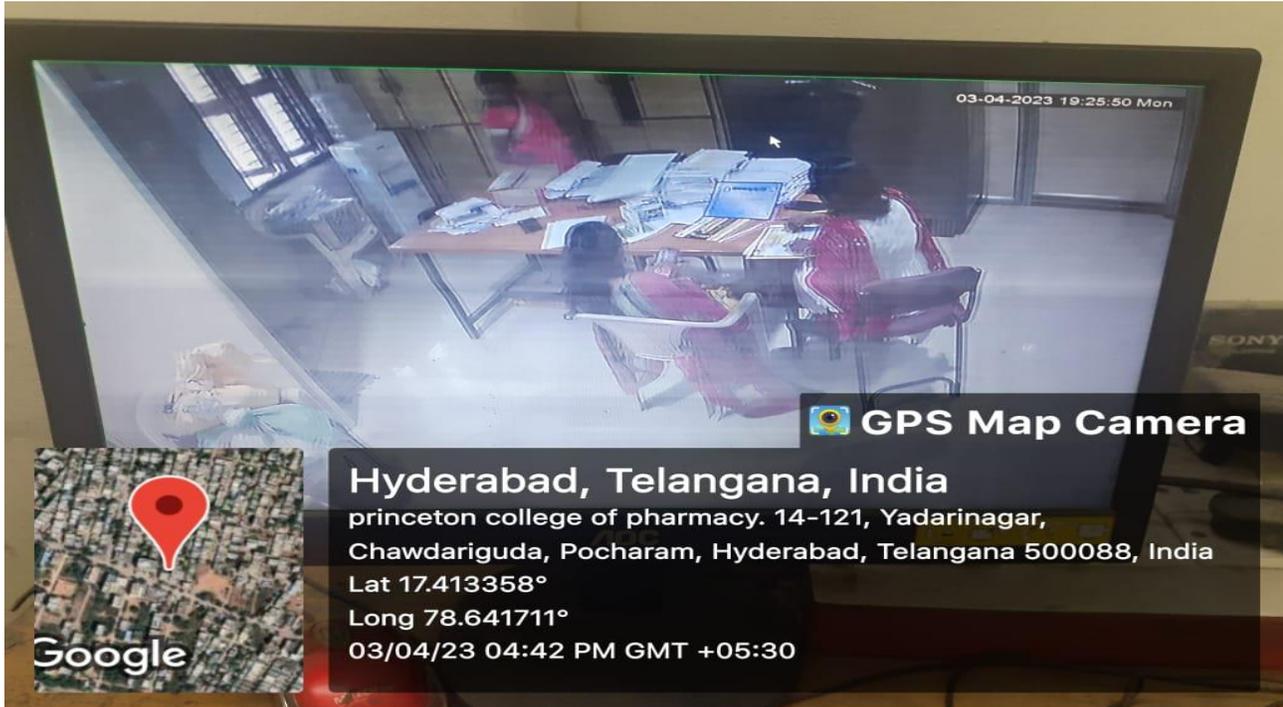


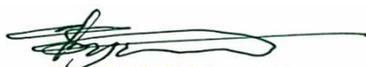
POE Network Switches



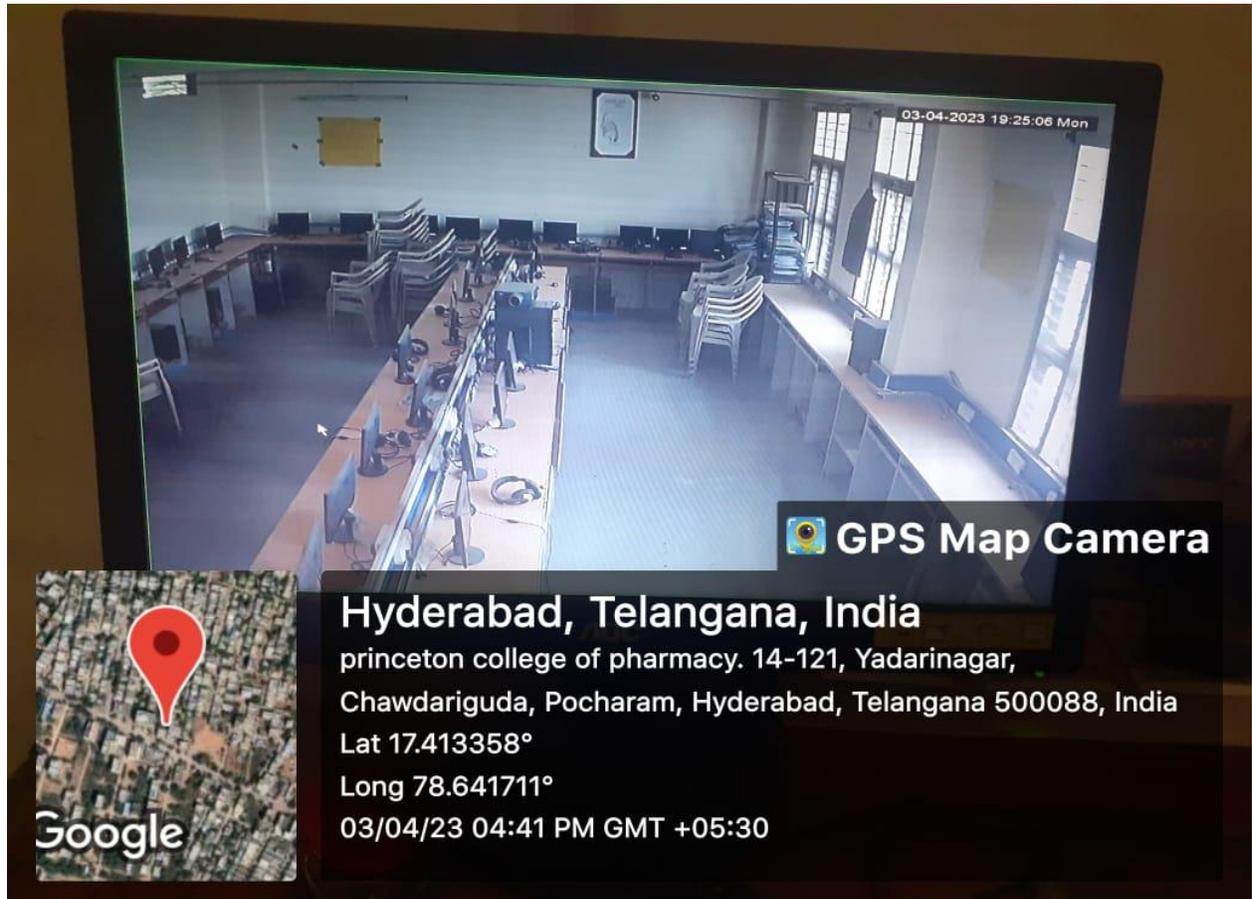

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CCTV Cameras



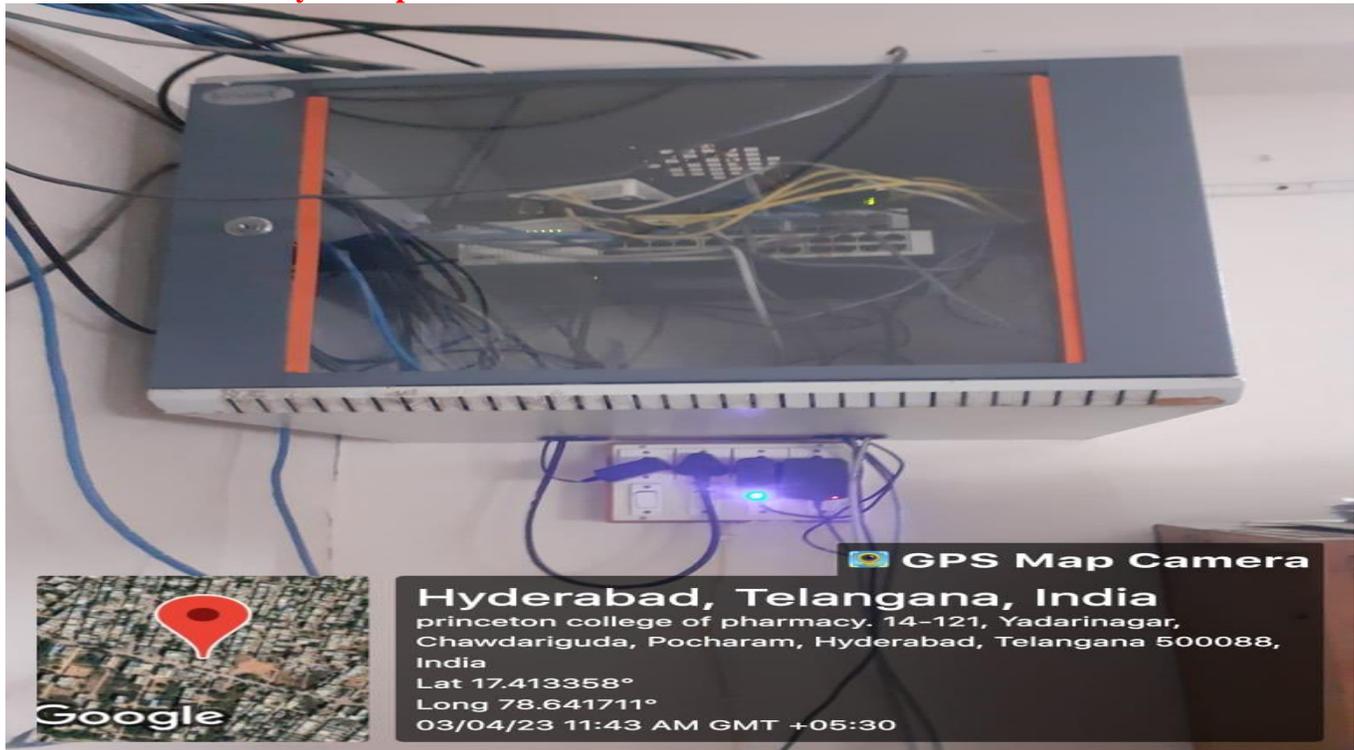

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Class Room CCTV Capture




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Internet Connectivity and Speed

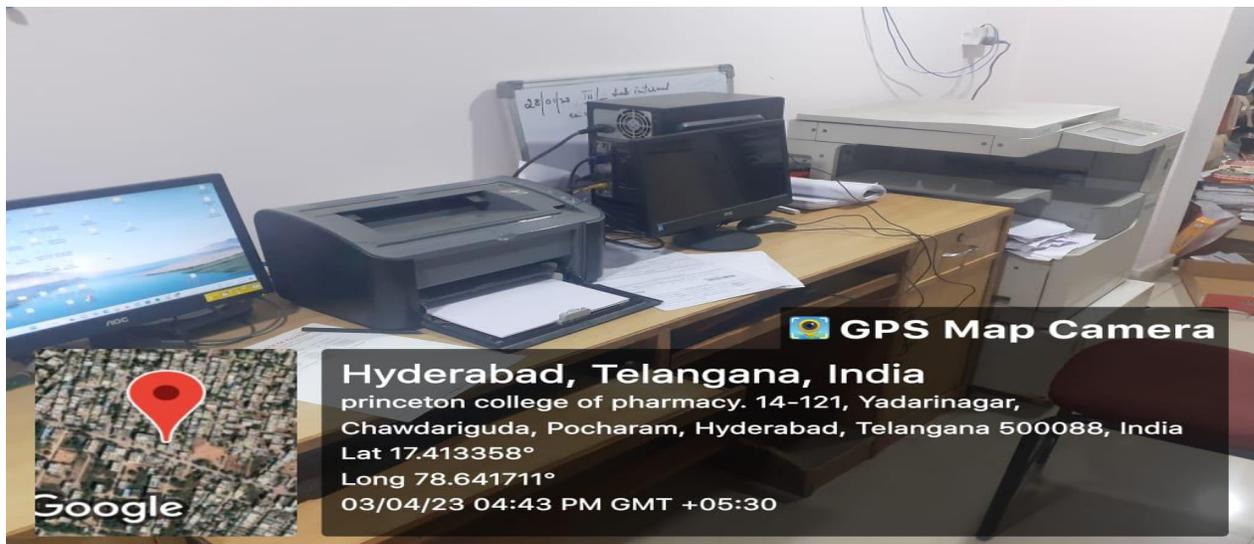


Internet Speed Test




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Xerox Machine & Printer




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Work Station




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Internet Service Provider –Jio




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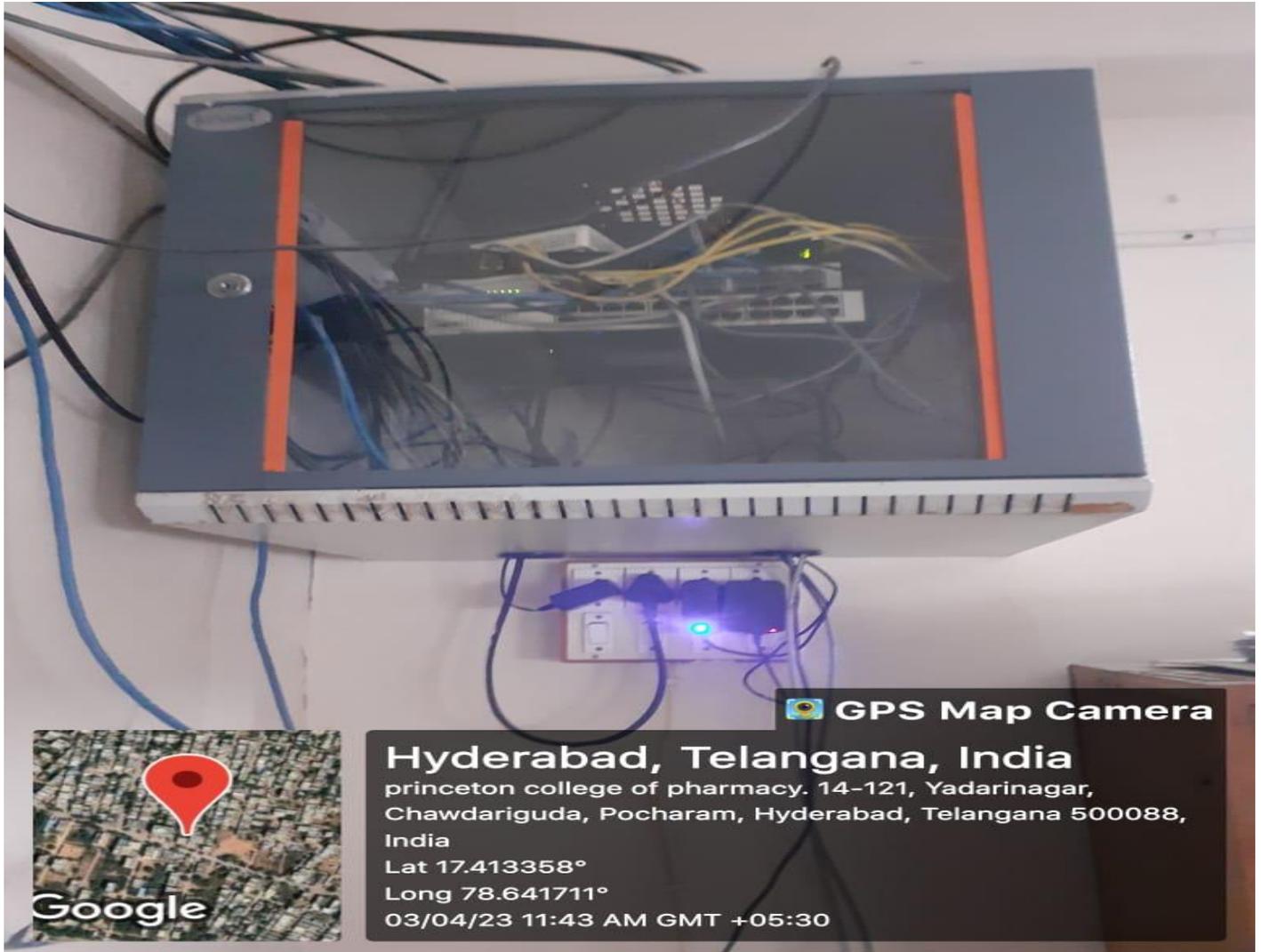
ISP Point




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Wifi Access Distribution Switch




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Online UPS 5 KVA

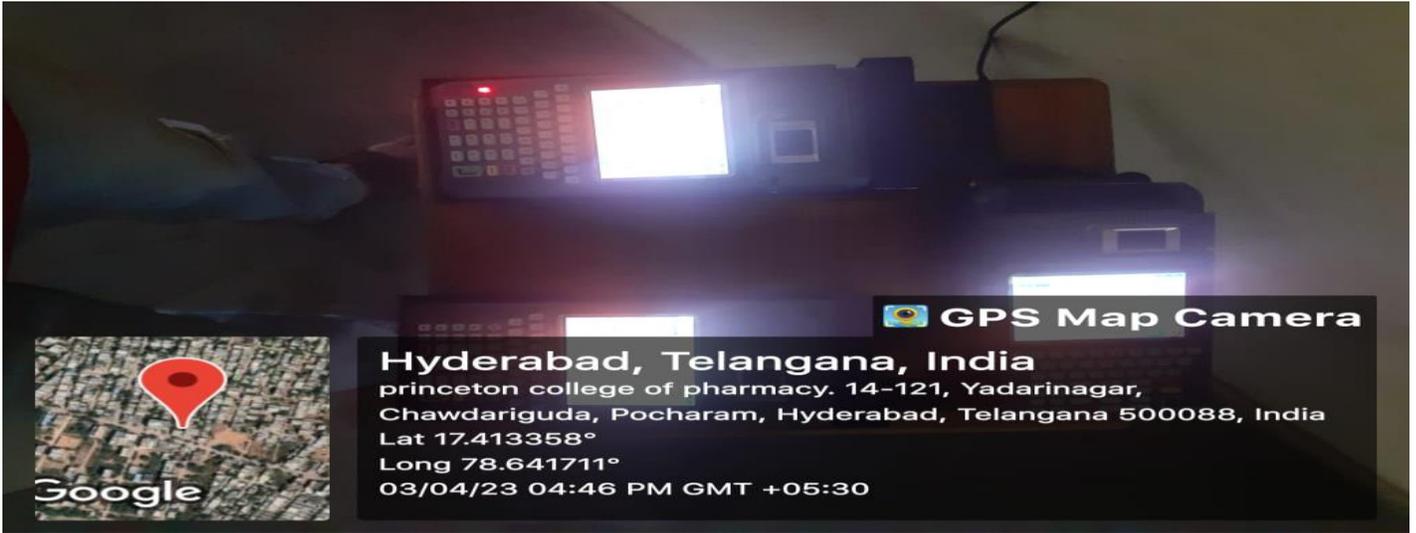


Batteries

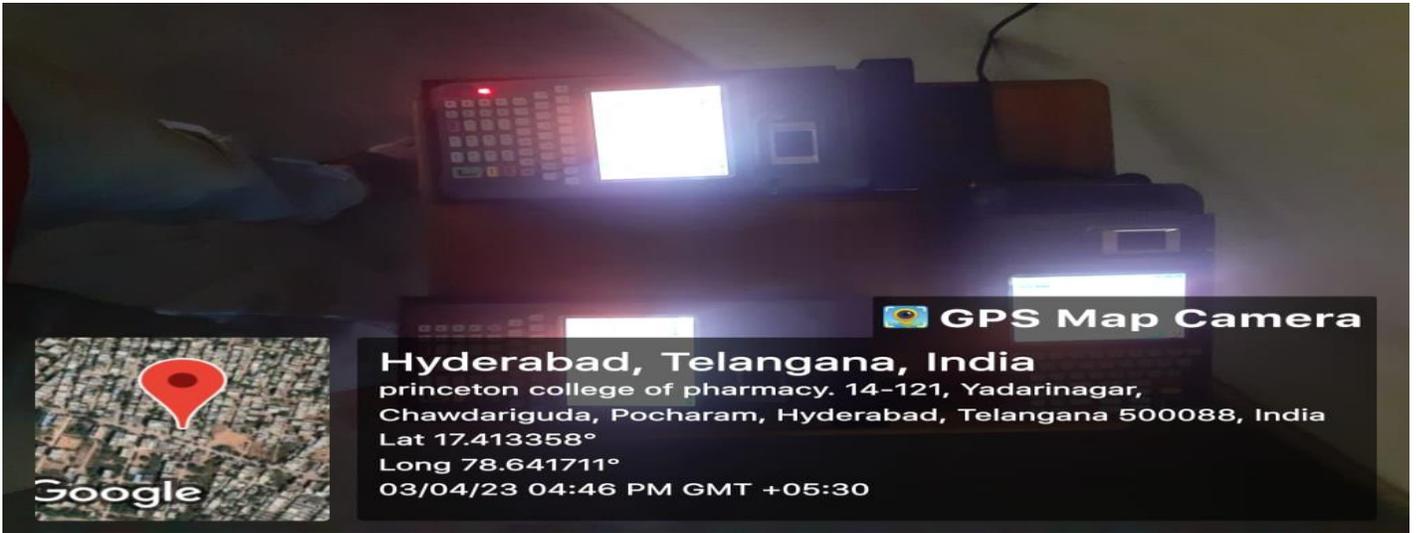



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Staff Biometric Device



Student Biometric Device




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




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Revised Institution IT Policies & Guidelines

Availability and usage of cutting-edge Information Technology (IT) resources and infrastructure of an organization make its product and process qualitative as well as effective. High end IT infrastructures have become most significant resources in technical educational Institutions. Realizing the importance of these, PCOP took initiative way back in 2010 and established basic network infrastructure in the campus. Over the last 8 years, the active users of the IT amenities as well as the web-based application have amplified many folds.

As of now, the Institution has about 700 network connections spreading over 3 building in the campus and expected to reach 1000 connections in near future. There is a well established internet and intranet facilities in the campus. The whole academic campus is now Wi-Fi enabled. The total bandwidth available at PCOP is 100 Mbps.

Strong IT management policy and security measures are the necessary and effective steps to align with the Institute academic objectives and desires. Hence, PCOP is proposing to have its own IT Policy that works as guiding principle for using the Institute's computing facilities including computer hardware, software, email, information resources, intranet and Internet access facilities, collectively called "**Information Technology**". The need of such IT policy is as follows:

- To establish, expand, maintain, secure, and ensure legal and appropriate use of Information technology infrastructure on the campus.
- Strategies and responsibilities for protecting the Availability, Confidentiality, and Integrity of the information possessions that are accessed, created, managed, and/or controlled by the Institute.

This policy document makes an attempt to put forward some IT policies and course of action that




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would be relevant in the context of this Institute. Every effort has been made to have a cautious steadiness between security and the ability to conduct the rightful functions by the stake holders. Due to the dynamism in the Information Technology nature, Information security in general and therefore policies that govern information security process are also dynamic in nature. They need to be reviewed on a regular basis and modified to reflect changing technology, changing requirements of the IT user community, and operating procedures. The IT policy creates and provides guidelines to help the Institute, departments and individuals who are part of PETW to understand how the policy applies to some of the significant areas and to bring conformance with stated policies. The IT policy lays down direction and provides information about acceptable and prohibited actions or policy violations.

PCOP IT policy is applicable to technology administered by:

- The Institute centrally
- The individual departments
- To information services provided by the administration, or by the individual departments
- Individuals of the organization community
- Authorized resident or non-resident visitors on their own hardware connected to the institute network
- PCOP IT policy is also applicable to the resources administered by:
- The central administrative departments such as Library, Computer Centers, Laboratories, Offices of the Institute.
- Recognized Associations/Unions/Clubs, hostels and guest houses, or residences wherever the network facility was provided by the Institute.

The major IT infrastructures on which the stated policy applicable are:

- Official Email services
- Network Devices wired/ wireless
- Data Storage and Access Official Websites and web applications
- Computing facility
- Internet Access
- Server computing facility
- Documentation facility (Printers/Scanners)

The Institution adhere to the new dynamics of the market and scales out hardware equipment and always encourages advanced technologies and offers high performance computational

facilities to the students and faculty. The Institution has always collaborate



with esteemed research organizations & industry. It will maintain FTP servers to share and secure the data in R&D & administrative activities. The organization is focusing on IT quality of service maintaining latency of the network connections.

- The Institution internet bandwidth needs to be upgraded to utilize the social networking, enhance the official website and web applications and internal usage for developing the lecture material, video lectures.
- The Institution always procures the high-end performance systems and servers to adhere new dynamics of the market, promoting the faculty and students towards research and development in various fields of technology as and when required.
- The Institution should upgrade to the updated firewall policy & guidelines to control & monitor the network traffic, internet utilization, control over the downloading malware software and control on the content of offensive or inappropriate websites.
- The organization will consistently offer significance to verifying the system and information and routinely update and renewal of Anti-Virus software.
- It may be noted that, all the teaching and non teaching staff, students, all departments, committees authorized visitors or visiting faculty and others who may be granted permission to use the Institute's IT infrastructure, must comply with the guidelines. Violations of IT policy laid down by the institute by any stake holder may even result in disciplinary action against the offender by the authorities. If the matter involves illegal action, law enforcement agencies may become involved.




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