Criteria 4 Infrastructure and Learning Resources

Key Indicator: 4.3: IT Infrastructure

4.3.1: Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth

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- About the ITRM Cell and Internet Facilities
- https://www.cit.edu.in/departments/it-resource-maintanance-cell
- Photos of Server Room and Computer Lab

The College has prioritized the establishment of a robust, expeditious campus-wide network that seamlessly connects all department and their systems. This network operates within a fully distributed computing environment, utilizing clusters of workstations and PCs to provide users with immediate access to computing resources, services, software, and applications tailored to the specific teaching and learning needs of each department.

This infrastructure emphasizes the institution's commitment to enhancing educational delivery through advanced technological support. In terms of connectivity, the college boasts multiple internet facilities to cater to its diverse needs. It has secured two leased lines: one from Skylink providing 200Mbps and another from Airtel at 200Mbps.

The campus is equipped with WiFi access points strategically placed in key locations such as the canteen, library, seminar halls, and placement cell, facilitating ubiquitous access across the campus premises. At the heart of maintaining and managing this vast network is the ITRM Cell, serving as the centralized hub for computer and network upkeep. This vital facility provides a suite of essential services to the college community. Notably, it oversees centralized internet access, employing a captive portal system that authenticates users- faculty, staff and students with individual login credentials. Furthermore, a local web server hosted within the ITRM cell operates a captive welcome page, serving as a central hub for disseminating campus- related information, including events and announcements. Beyond managing user access and information dissemination, the ITRM Cell plays a pivotal role in maintaining the operational integrity of the college's computing infrastructure. It handles diverse responsibility ranging from computer hardware troubleshooting to the implementation, configuration, and ongoing maintenance of Local Area Network services, encompassing both internet and WiFi connectivity. The backbone of this network itself features a robust architecture comprising a 1 Gbps fiber optic backbone, a gigabit routing switch, and a hierarchical three-tier structure incorporating core, distribution, and edge switches.

At the departmental and building levels, the network is fortified with manageable switches capable of layer 3 switching, bolstered by UTP CAT 6 cabling to support high-performance data transformation. This comprehensive setup not only guarantees seamless internet connectivity but also provides a stable and efficient platform for the college community to engage with digital resources and educational tools. Hardware-wise, the network infrastructure is fortified with industry-leading components including Cisco L3 and L2 manageable switches, a Sophos UTM (Unified Threat Management) network security appliance. Ensure continuous protection for our systems with our antivirus and firewall renewal services. Regularly updated to combat evolving threats, our solutions provide peace of mind against cyberattacks. Safeguard your data and operations effectively with scheduled renewals, ensuring uninterrupted security for your digital assets.

HP WiFi controllers, access points from HP, IBM Tower Server X3100 M4, IBM Server Blades, and Lenovo Rack Servers. These devices collectively enhance network performance, reliability, and security, ensuring that the college remains at the forefront of technological integration in education, In summary, the college's commitment to fostering an advanced technological ecosystem is evident through its comprehensive network infrastructure and centralized support mechanisms provided by ITRM cell.

Artificial Intelligence & Data Science Lab II
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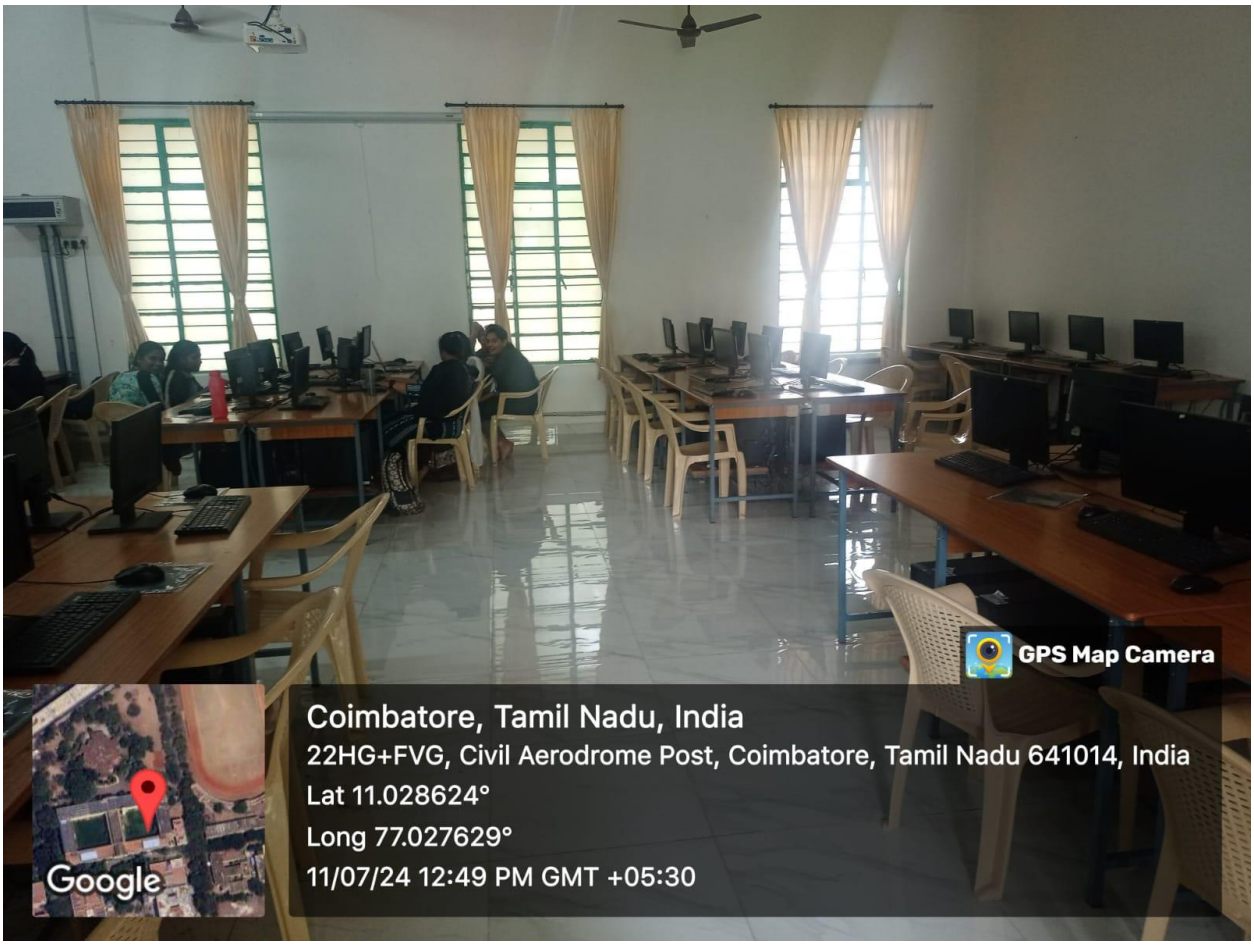
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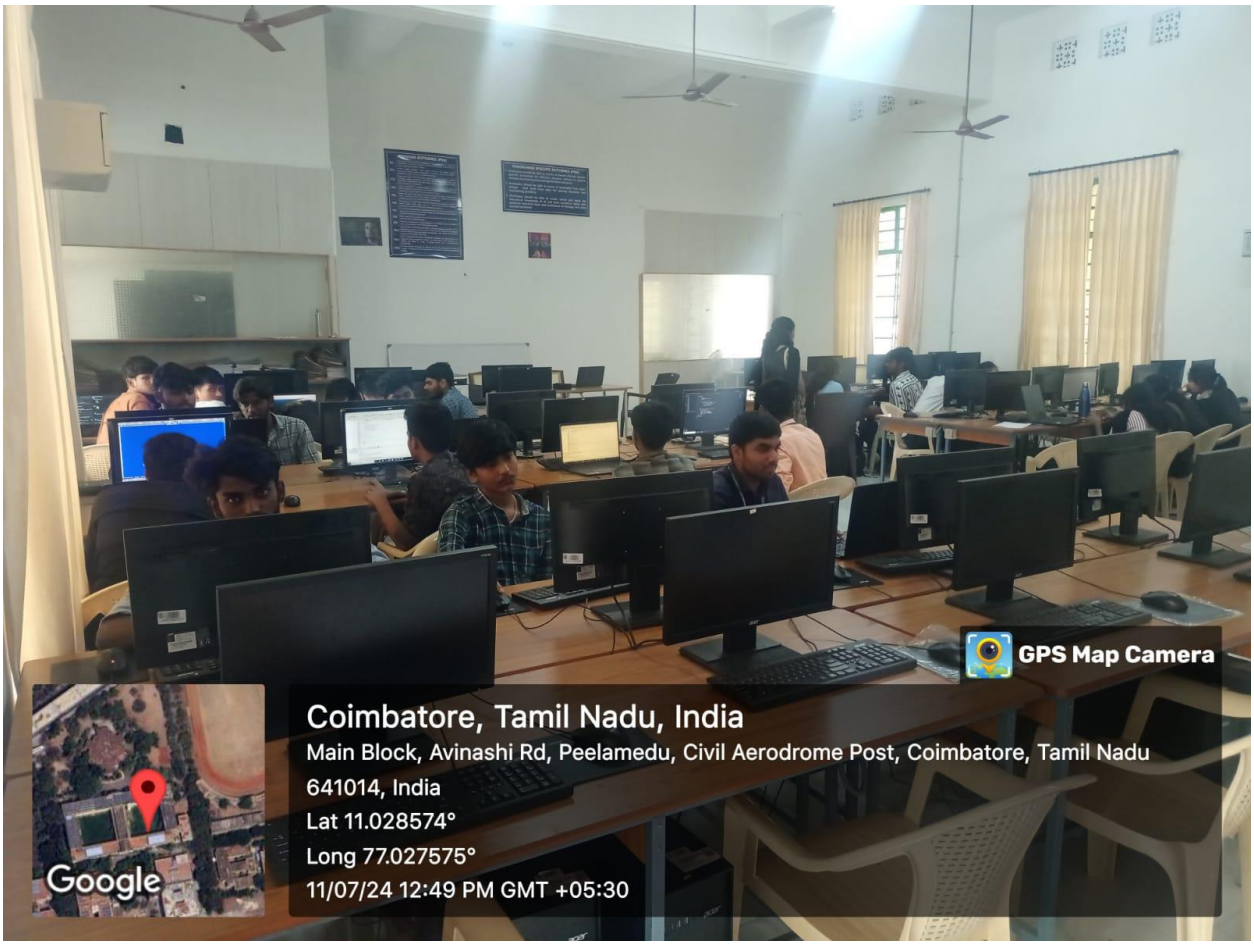
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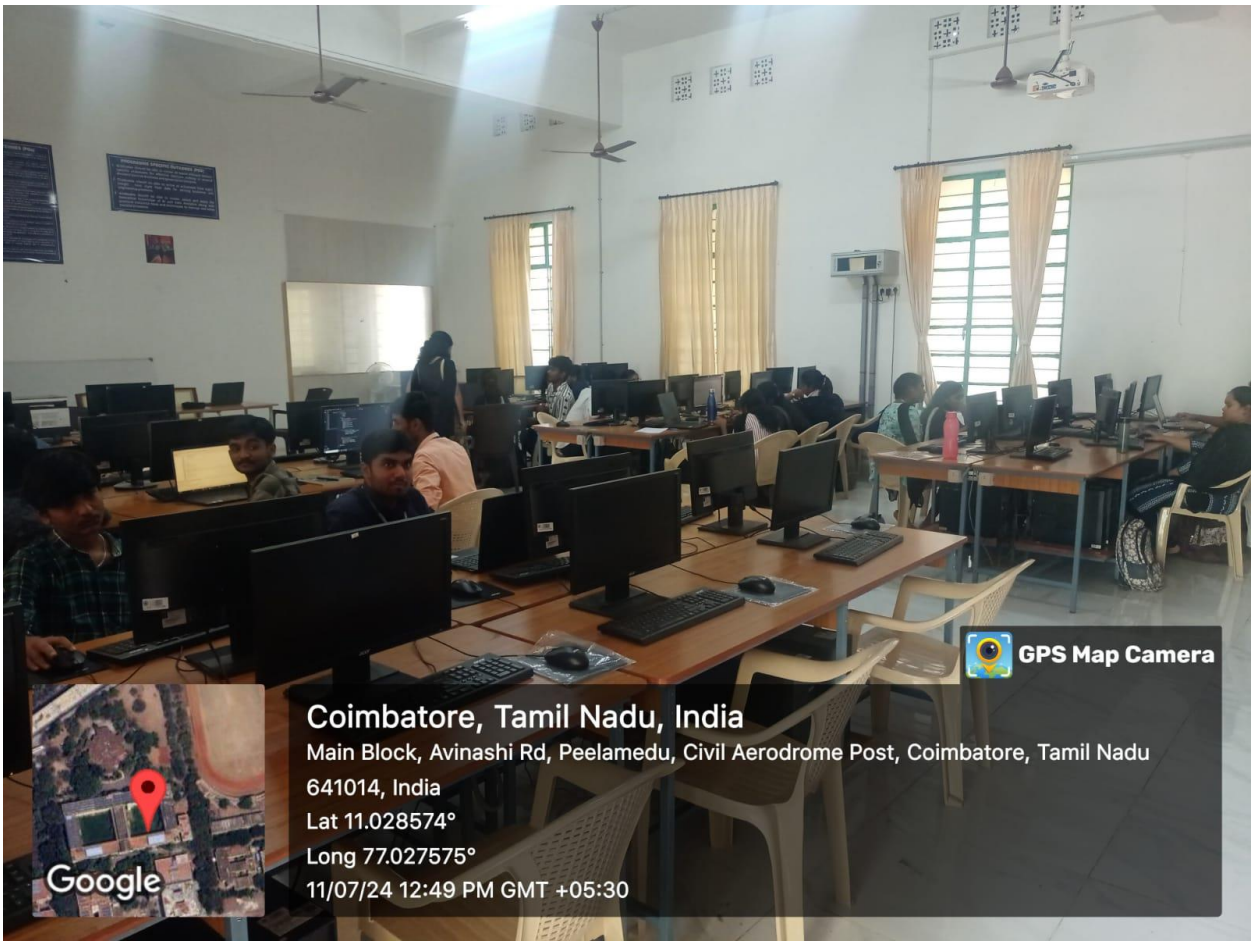
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GPS Map
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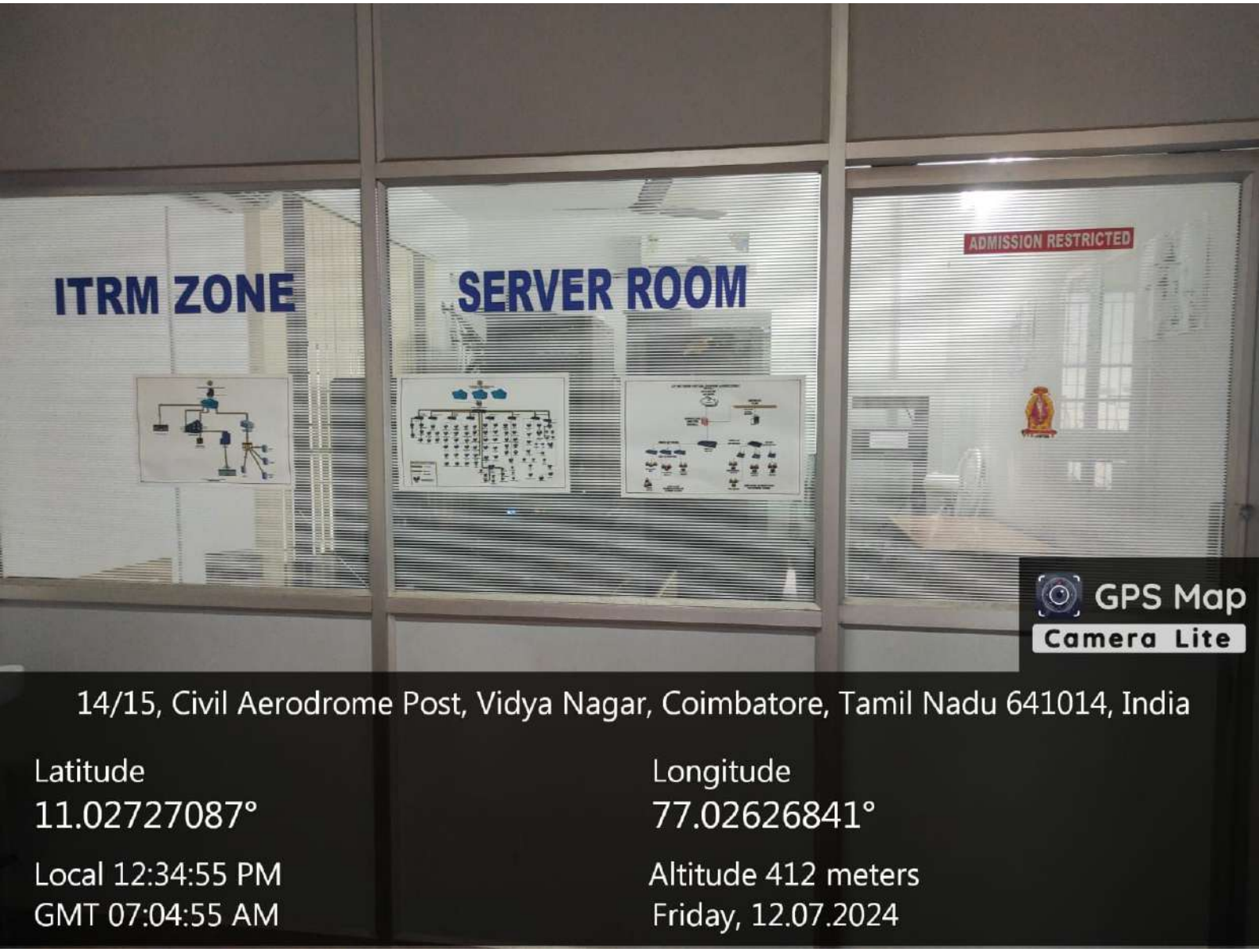
ITRM ZONE
SERVER ROOM
ADMISSION RESTRICTED
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IT RESOURCES MAINTENANCE CELL
GPS Map
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