

Criterion 4

**Infrastructure and Learning
Resources Aspects**

Key Indicator 4.3

IT Infrastructure

**4.3.2 Student – Computer ratio (Data for the
latest completed academic year)**

Details of Computing Facility


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Content

The Institute has adequate computing facilities for teaching-learning process.

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1. Details of Computer System with Configuration Issued to Respective Departments/labs for Student Usage

BLOCK NAME	DEPTT NAME	NAME OF LAB	SYSTEM NAME	TFT SIZE	RAM	HDD&SSD	SYSTEMS IN LABS	TOTAL SYSTEM
Neumann Block	CSE DEPTT	PYTHON LAB	HP i7	18.5 IN	8 GB	256 GB SSD	30	310
		NETWORK AND CLOUD COMPUTING LAB	HP i7	18.5 IN	8 GB	256 GB SSD	30	
		DATA STRUCTURE AND ALGORITHM LAB	HP i5 WITH GRAPHICS CARD	18.5 IN	8 GB	256 GB SSD	30	
		OPERATING SYSTEM LAB	HP i3 3rd Gen	15.5 IN	4 GB	500 GB HDD	40	
		DBMS/SOFTWARE & JAVALAB	HP i7	18.5 & 15.5 IN	8 & 4 GB	256 GB SSD & 160 GB HDD	50	
		PROJECT LAB	HP i5	15.5 IN	8 GB	256 GB SSD	60	
		AIML LAB	HP i7	18.5 IN	8 GB	256 GB SSD	40	
		IOT LAB	HP i5	18.5 IN	8 & 4 GB	256 GB SSD	30	
New Reynolds Block	IT DEPTT	ANALYSIS AND DESIGN ALGORITHM LAB	HCL DUAL CORE	15.5 IN	2 GB	160 GB HDD	30	270
		COMPUTER CENTER LAB	HCL DUAL CORE & HP i5	18.5 & 15.5 IN	2 GB & 8 GB	160 GB HDD & 128 GB SSD	50	
		DATABASE MANAGEMENT LAB	HCL DUAL CORE	15.5 IN	2 GB	160 GB HDD	30	
		OPERATING SYSTEM LAB	HP i5	18.5 IN	8 GB	128 GB SSD	30	
		PROJECT LAB	HP i5 WITH GRAPHICS CARD	18.5 IN	8 GB	256 GB SSD	100	



		NETWORK AND LINUX LAB	HP i7	18.5 IN	8 GB	256 GB SSD	30	
Kautilya Block	MBA DEPTT	COMPUTER LAB	HCL DUAL CORE & HP i5	18.5 & 15.5 IN	2 GB & 4 GB & 8 GB	256 GB SSD & 160 GB HDD	32	32
Carnot Block	MECHNICAL DEPTT	CAD LAB	HCL DUAL CORE	15.5 IN	2 GB & 4 GB	160 GB HDD	26	26
Shannon Block	EC DEPTT	SOFTWARE LAB	HCL DUAL CORE	18.5 IN	1 GB & 2 GB	260 GB HDD	30	30
Old Reynolds Block	CIVIL DEPTT	SOFTWARE LAB	HP i5	18.5 IN	8 GB	256 GB SSD	15	15
	HUMANITY DEPTT	LANGUAGE LAB	HCL DUAL CORE	15.5 IN	2 GB	160 GB HDD	45	45
						Total		728


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2. IT Infrastructure

The Institute's IT infrastructure is meticulously designed to provide secure, reliable, and round-the-clock access to software, hardware, and internet resources for all users. By developing advanced computer technologies, the Institute has made significant strides in enhancing the quality of teaching, learning, and research.

The Institute houses 18 computer laboratories, equipped with 728 computers featuring Intel Core i3, i5, and i7 processors. This robust infrastructure ensures comprehensive computing support for both students and faculty. The dissemination and lecture capturing facilities include state-of-the-art LCDs, Wi-Fi/LAN connections, projectors, and audio-visual tools, all contributing to a modern, technology-enhanced learning environment. The IT and ICT infrastructure is not only designed to meet the current academic, research, and extension needs but is also regularly monitored and upgraded to stay ahead of future requirements. The Institute maintains a 1:2 computer-to-student ratio in laboratories, ensuring that each student has ample access to the necessary technology.

The Institute boasts formidable internet connectivity with a primary bandwidth of over 580 Mbps. This includes a 500 Mbps leased line from Fibrenet Solution OPC Pvt. Ltd. and an 80 Mbps connection from PC Care Infratel Private Limited, supported by additional connections from one more ISP. This robust network ensures continuous internet access for academic and research activities. To further enhance connectivity, the network backbone has been upgraded from 30 Mbps to over 580 Mbps, and more than 900 LAN points have been installed across the campus. Additionally, 31+ Wi-Fi access points are deployed in academic and hostel blocks, ensuring 24/7 internet service.

The Institute's server infrastructure is equally robust, featuring three racks and three servers, including a dedicated Library Soul server. The commonly used licensed software is made available centrally and extended to all departments, ensuring that all users have access to essential tools. To maintain seamless operations, a dedicated Network Cell, staffed with technical experts, manages the Institute's network, hardware, software, projector, and UPS maintenance.

To streamline support, the Institute has established dedicated email IDs through the Network Cell for addressing system service queries, network issues, and hardware problems. This system not only ensures efficient support but also bolsters the secure handling of academic and administrative processes.

The digital library, accessible 24/7 to students, scholars, and staff members, exemplifies the Institute's commitment to providing comprehensive resources. Furthermore, key Institute and Trust events are webcasted live, leveraging the Institute's IT infrastructure.

Recent IT infrastructure upgrades (2023-24)

Significant upgrades to the IT infrastructure were implemented during the 2023-24 period, reflecting the Institute's dedication to maintaining cutting-edge facilities. These upgrades include:

- **Procurement of Latest Configuration Desktops:** New desktop machines were acquired in **August 2023** to enhance laboratory facilities.
- **Digital Pen Tablets:** Acquired in **April 2024**, these tablets support teaching in both lab and theory courses.
- **Interactive Panels:** Introduced in **October 2023** and **July 2024**, these 75" and 85" panels improve ICT-enabled teaching aids.
- **Audio Podiums:** Installed in **December 2023** and **July 2024**, these podiums enhance classroom teaching aids.
- **Additional Leased Lines:** A 500 Mbps line and an 80 Mbps backup line were secured during **2023-24** to ensure uninterrupted internet connectivity.
- **Upgraded Network Infrastructure:** Optical fiber connectivity was implemented between all blocks in **February 2024**.
- **Uninterrupted Power Supply:** Inverters and online UPS systems were installed in **July 2024** to maintain consistent power and internet access during online activities.

The Institute has also established a comprehensive IT policy covering critical aspects such as Wi-Fi usage and cybersecurity, underscoring its commitment to secure and efficient IT management. The significant budget allocated for these updates highlights the Institute's dedication to providing top-tier facilities that support a thriving academic environment.



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3. Geotagged Photo graphs of Computing Facility

Neumann Block - Python Laboratories



Neumann Block - Network & Cloud Computing Laboratories



Neumann Block: Data Structure Laboratories



Neumann Block - Operating System & Linux Laboratories



Neumann Block - DBMS Laboratories



Neumann Block - Software Engg. & JAVA Laboratories



Neumann Block - Project Laboratories



New Reynold Block - ADA Laboratories



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New Reynold Block - Computer Centre Laboratories



New Reynold Block – DBMS & JAVA Laboratories



New Reynold Block - OS Laboratories



New Reynold Block - Project Laboratories



New Reynold Block - Network and Linux Laboratories



Kautilya Block – Computer Lab



Carnot Block - CAD/CAM Laboratories



Shannon Block - Software and Simulation Lab



Software Laboratories



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