

IT Infrastructure

JIIT is one of the few Indian universities, which can boast of its state-of-the-art computing resources and network across the campus.

JIIT has Central IT Infrastructure Center for IT support. The main objectives of the dedicated Server Room (IT Infrastructure Center) are to provide easily accessible and excellent computational facilities, support to all members of JIIT on all aspects of academic, research and recreational requirements, to implement and maintain IT Infrastructure and application software, to impart introductory and advanced instructions to users, generate trained manpower to maintain IT Infrastructure (Servers, Desktops, Data Security, University Network), to provide support to Institute computerization efforts, to do in house research & development, and to serve a user population of more than 4600 users consisting of undergraduate, postgraduate, research scholars, faculty and staff of the University.

In addition, it also owns the responsibility to develop and implement application software for various needs of University like finance, payroll, results, MIS reports and electronic attendance system etc.

General Computing Facilities:

Dedicated and secured Data centre. The Server Room is equipped with Intel Nehalem Quad-Core Servers for high performance windows 2008 R2 / 2012 Computing Server, Intel Xeon servers with multiple processors, High end Intel Pentium servers with multiple processors, various engineering and technical computing softwares, network management tools, Client/Server Database computing System connected over a switched fast Ethernet with Optical Fiber backbone. All computers are a part of Windows Domain Controller with support of additional domain controllers. For our printing needs we have 19 heavy duty Network Laser Printers, two Line matrix printers, 65 desktop printers and 17 multi function printers. Central Antivirus server provides security for entire network.

Hardware Configurations (Servers and Desktops):

Servers:

Sr.No.	Location	Server Configuration	Qty.
1	JIIT Sector 62	Intel XEON 8C E5 Octa Core	3
		Intel Nehalem Quad-Core Servers	12
		Intel xeon processor servers	7
		Proliant ML series servers	3
		Cyberoam 1000ia Firewall	2
2	JIIT Sector 128	Intel Xeon G5 / G7 series Dual Core	3
		Intel Xeon Quad Core	5
		Cyberoam 500i Firewall	2
		Total	37

Desktops/Laptop:

Sr.No.	Location	Server Configuration	Qty.
1	JIIT Sector 62	Intel Xeon E3-1225 Processor	20
		Intel Core i5	381
		Intel Core i3	300
		Intel Core2Duo	350
		Intel P-IV Desktops	187
		Laptop	7
2	JIIT Sector 128	Intel Core i7	9
		Intel Core i5	20
		Intel Core i3	470
		Intel Core2Duo	110
		Laptop	2
		Total	1856

Engineering, Technical Computing and General Use Softwares.

Software Name	Software Name	Software Name
3-DMax	LabView	PSPICE
Ace Equity	LANTanner	RationalRose
Adobe Software Suite	LotusDomino	SAP
ADS	Macromedia Software Suite	SigmaPlot
Animo	Mathematica	Softlink Liberty
BorlandC++	Matlab	SPSS
Gaussion	Memspro	SymantecAntivirus
HEP-I	Msoffice	Virtuoso (Cadense VLSI UG Bundle)
Illustratorpe	MSPProject	VisualStudioNET
Jboss	Oracle11g	Xilinx
KEIL	Photoshop Pe	Synopsys

Database Service.

The Server Room has a Client/ Server Database Computing System- Oracle 11g with Developer 2000 version 6.0. At the front end, the platform is Windows XP / Widnows7 / Windows 8.1 and at the back end, Intel Xeon based RedHat Enterprise Linux.

Network Services.

The whole campus is interconnected through a highly secured Virtual Private Network, where over 3000 PCs are connected to the internet through Internet Leased link connections whilst 36 hi-end servers power the network for 100% redundancy and efficient data management. Completely automated High end Biometric systems for attendance of

faculty and staff. Eight biometric reader machines have been installed in different academic blocks for capturing the attendance of the faculty and staff. 50 bullet cameras & 192 dome cameras, 21 DVRs to monitor the various buildings including Academic areas, Faculty residence, Hostels and grounds.

The institute Local Area Network (LAN) is a state of the art switched network with Fiber Optics Backbone and enhanced CAT6/CAT6a UTP for providing seamless connectivity. It consists of more than **8000** network access points spread using 109 Cisco Switches, 4 Routers, 288 Wireless access points and 28 VLANs to provide the needed scalability, security and traffic control. The network access is provided to every room in student's hostel, faculty & staff residence, doctors at IIIT Hospital, cafeteria & mess (Annapurna), laboratories and rooms in guest houses.

IIIT Campus has an excellent Internet connectivity, provided through a router, Cyberoam firewall. We have 1.10 Gbps (1:1) leased circuit from BSNL NKN (1 Gbps) and AIRTEL (10 Mbps) on OFC. Apart from Internet and Intranet many more services including mail, web, library book search, domain name, anti virus and software upgrades are being provided over this network.

IIIT has Cyberoam 1000ia and Cyberoam 500i in HA mode installed for ISPs load balancing, fail over and Malware / Spyware / Spam detection, content filtering and anti-virus protection at the gateway level. Lotus Domino is being used by IIIT for its official mailing services.

Apart from above all Lecture Theaters and major class rooms are equipped with Projection System