



4.3.1 Institution frequently updates its IT facilities including Wi-Fi

Response:

The college aims at providing the futuristic facilities to the students to make them utilize the resources in the best possible manner. The computer laboratories are relocated to new premises to be under one roof. The laboratories at the new location have cutting edge facilities with a very impressive ambiance. The institution appraises the IT requirements from time to time and does the needful. The campus is Wi-Fi enabled. The students and faculty members are encouraged to utilize e-learning resources.


- Total College systems are connected in star topology back born is Optical Fibre cabling and CAT 6 with speed 1GBPS LAN
- Each and every department having wifi individual and isolated bandwidth facility
- college mail Ids facilitated
- Each and every department having smart classes
- All the students are benefited by Technical support for their PC or Laptops.

Total Number Of Systems:

Total Systems	827
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S.No	Details	No.of Systems
1	Campus Systems(Departments, Staff, Office etc...)	85
2	Computer lab Systems	719
3	Other computer lab systems	23


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S.No	Name of the Laboratory	Specification	Number of Systems
1	ARYA BHATTA LAB	Dell:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	134
2	SIR CV RAMAN LAB	Dell:i3/Quad Core processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	112
3	SHAKUNTALA DEVI LAB	DELL 3683,i3 10th Gen, 4/8GB RAM, 500/1000GB HDD,18.5 LCD monitor	67
4	SRINIVASA RAMANUJAN LAB	ASUS i3 10th Gen, 8GB RAM, 1000GB HDD,18.5 Monitor	73
5	JRD TATA LAB	1. Iball; i5 & i7 processor,4GB RAM,500GB HDD,18.5 LCD Monitor-30 Nos 2. Dell: i3 processor,4GB RAM,500GB HDD,18.5 LCD Monitor	51
6	NARAYANA MURTHY LAB	Dell: Dual Core processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	55
7	DR ABDUL KALAM LAB	Intex: i3 processor,16GB RAM,500GB HDD,18.5 LCD Monitor	65
8	RAJ REDDY LAB	I3/core processor, 2GB RAM, 500GB HDD,18.5 LCD monitor	18
9	ROOM NO:117 LAB	Zebtronics 13, 4GB RAM,500 GB, LED	72
10	Room No:321	Fingers I3 12th Gen, 16GB Ram, 500GB SSD, 18.5 Monitor	72
Total number of systems in computer labs:			719

Internet Details:

1. Excel leased line-----120 MBPS
2. ACT Broadband-----250 MBPS


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3. Excel Broadband-----50 MBPS

Total number of Printers:

S.No	Name of the Printer	Quantity
1	Laser Printers	22
2	Colour Printers	02
3	Xerox Machines	02

Wi-Fi:

Wi-fi enabled campus. Certified by TP link.

Backbone:

Optical Fibre Cable(OFC) is the backbone of Entire campus with a speed of 1GBPS.

CC Camera Surveillance:

Entire campus is under CC Camera surveillance with 120 cameras.

Details of the college computing facilities:

The college has its own network infrastructure since its inception. The laboratories are D-Link Certified and follow the D-Link infrastructure in all respects of the internet facilities including LAN + WAN.

- o ECAP – An online academic administration
- o EZ School – An Accounting and Administration
- o Tally ERP 9 – Accounting

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- MOODLE –Learning resources, curriculum, lesson plan, recorded lectures, assignments, assessment are made available online through Learning Management System (LMS) for enhancing teaching and learning experience.
- EZ Library – Complete library content made available to the students, faculty 24x7
- NPTEL Server- Complete NPTEL Online Video Lectures for all branches of Engineering.
- Database Server (Oracle) –I
- ANSYS Server – I
- GLOBARENA Online Server-I
- Open source Firewall- Pfsense
- K7 Security - Antivirus
- 10000 Meters of LAN Cable on campus
- 40 Access Points, 3out door Access points and 12 Wi-Fi routers to provide network all departments and campus.
- Data Center- 2 Nos
- Internet Servers – 4 Nos
- File Storage Server- 1 No
- JNTU KAKINADA Online Exams Server –4 Nos
- IP surveillance – 54 cameras
- Access control systems

Server Details:

S.No	Total No. of physical servers	Total No. of Server Applications
1	5	13

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S.No	Server Details	Company	Quantity
1	Proliant ML350,4GB RAM,1TB HDD	HP	1
2	Xeon processor,2 slots, Arid enable, 8GB RAM, 1TB and 500Gb HDD	Assembled Unified server	1
3	Proliant DL20 9 th GEN Rack Servers 4Gb RAM, 1TB HDD	HP	3
4	Dell EMC Poweredge T440 CETRIX Xen server(Pfsense, Windows IAS)	Dell EMC	1

S.No	Purpose and name of the server Applications	Specification	Quantity
1	Dell EMC Poweredge T440 CETRIX Xen server(Pfsense, Windows IAS-Site filtering...etc)	1xXeon®,16GB RAM,RAID, 1TB x2nos HDD with dual SMPS and processor	1
2	JNTUK Online Server 1 st Year	Dell:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	1
3	JNTUK Online Server 2 nd Year	Dell:i3 processor, 34GB RAM, 500GB H4DD,18.5 LCD mo5nitor	1
4	JNTUK Online Server 3 rd Year	Dell6:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	1
5	JNTUK Online Server 4 th Year	Dell:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	1
6	PF SENSE Firewall(Internet-Exam Cell) & NPTEL(Xen Server-OS)	Proliant DL20 9 th GEN Rack Servers 4GB RAM,1Tb HDD	1
7	FILE Server-Windows Server	Proliant DL20 9 th GEN Rack Servers 4GB RAM,1Tb HDD	1
8	Moodle Server-Windows	Dell:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	1
9	PF SENSE-Firewall (EXCEL Leased	Dell:i3 processor, 4GB RAM,	1


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	Line)	500GB HDD,18.5 LCD monitor	
10	PF SENSE-Firewall (ACT Broad band)	Dell:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	1
11	PF SENSE-Firewall (BSNL NMEICT)	Dell:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	1
12	Ansys Server-Mechanical Lab	Dell:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	1
13	Xilinx Server-ECE Lab	Dell:i3 processor, 4GB RAM, 500GB HDD,18.5 LCD monitor	1
14	DLM server -Language Lab	Zebratics: i3 processor, 4GB RAM, 500GB HDD,18.5 LCD	1
Total:			13

Software Details

Total Number of Software's	8 (System Softwares) + 26 (Application Softwares)
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1. System Softwares:

S.No	Type of Software	Name of the Software	Qty	Name of the Department used
1	Licensed	WinSL 8.1 SNGL OLP NL	36	CSE
2	Licensed	Windows 7 Citz Professional with PC (Reboot PC)	50	CIVIL, ECE, MECH
3	Licensed	MS Windows XP Prof Media Kit	1	All Departments
4	Open Source	Ubuntu 18 LTS	UL	CSE
5	Open Source	Ubuntu 14.04.3	UL	All Departments
6	Open Source	Fedora 7	UL	All Departments
7	Open Source	PF Sense 2.3.5/3.2	UL	Internet Monitoring
8	Open Source	Citrix Xen server 6.0	UL	All Departments

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2. Application Softwares:

S.No	Type of Software	Name of the Software	Qty	Name of the Department used
1	Licensed	K7 Total Security Plus	50	All Departments
2	Licensed	DLM (Digital Language Lab)	65+1	FED
3	Licensed	Prezi (Presentation Software)	1	All Departments
4	Licensed	Artix7 FPGA Kit with interface	5	ECE
5	Licensed	Xilinx Vivado	25	ECE
6	Licensed	Mentor Graphics HEP-1	50	ECE
7	Licensed	NI Circuit Design Software	25	ECE
8	Licensed	ANSYS-MECH	50	MECH
9	Licensed	IBM RATIONAL ROSE	30	CSE
10	Licensed	MS office Std 2007	1	CSE
11	Licensed	MS Visual Studio Prof Media	1	CSE
12	Licensed	Borland Turbo C++ Suite	1	CSE
13	Licensed	Rosetta Stone Language Lab	35+1	FED
14	Licensed	Tally ERP 9	1	Committee office
15	Licensed	EZ SCHOOL SOFTWARE	1	Committee office
16	Licensed	E Scan Anti Virus	50	All Departments
17	Open Source	Libre Office	-	CSE
18	Open Source	MYSQL 7.0	-	CSE
19	Open Source	Apache Tomcat 5.0	-	CSE
20	Open Source	JDK 6.0	-	CSE
21	Open Source	Weka Tool	-	CSE
22	Open Source	GCC Compiler	-	All Departments
23	Open Source	G++ Compiler	-	All Departments
24	Open Source	Smart PSS (CC CAM Monitoring)	-	CSE
25	Open Source	Any Desk (Remote Admin)	-	CSE
26	Open Source	ETime Track Lite	-	All Departments


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