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DTE Code : EN 6754 | AISHE Code : C-41681

IT Infrastructure

Sr. No.   **Title**

1.   Details of IT Facility Up gradation

2.   Details of Wi – Fi Facility

3.   Details of Internet Facility

4.   Details of Servers

5.   Details of LAN Facility

6.   Details of CCTV Facility

7.   Details of Firewall

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Details of IT Facility Up gradation

Year of Up Gradation	Name of Service Provider	Model Name	Configuration & Speed
2013-14	Dell India Pvt. Ltd.	Dell Optiplex 3010	Intel Core i5, 4 GB RAM, 500 GB HDD, 18.5 LED Monitor, Key Board + Mouse
2014-15	HP Computers	HP 280 G1	Intel Core i5, 4 GB RAM, 500 GB HDD, 18.5 LED Monitor, Key Board + Mouse + DOS
2014-15	HP Computers	HP Pro 4000	P4 Core2 Duo 2.99 GHz, 4 GB RAM, 500 GB HDD, 18.5 LED Monitor, Key Board + Mouse, Win 7 Pro
2015-16	HP Computers	HP 800 G1	Intel Core i5, 4 GB RAM, 500 GB HDD, 18.5" LED, Key Board + Mouse + Windows 8.1 SLFPP
2016-17	HP Computers	HP 800G2	Intel Core i5, 4 GB RAM, 500 GB HDD, 18.5" LED, Key Board + Mouse + Windows 10 Home Single Lan
2016-17	Dell India Pvt. Ltd.	Dell Optiplex 7020	Intel Core i5, 4 GB RAM, 500 GB HDD, 2 GB Graphics Card, 18.5" LED, Key Board + Mouse
2016-17	Dell India Pvt. Ltd.	Dell Optiplex 9020	Intel Core i5, 4 GB RAM, 500 GB HDD, 18.5" LED, Key Board + Mouse + Windows 10 Home Single Lan
2021-22	HP Computers	HP ProDesk 600 G6	Intel Core i5, 8 GB RAM, 1TB HDD, 19.5" LED Monitor, USB Key Board + Mouse + Windows 10 Home Single Lan
2022-23	Lenovo Computers	Lenovo Think center Neo50s	Intel Core i5, 8 GB RAM, 256 SSD + 1TB SATA HDD, 19.5" LED Monitor, USB Key Board + Mouse + Windows 10 Home Single Lan

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Details of Wi – Fi Facility

Name of the Internet provider	Bharat Sanchar Nigam Limited
Available bandwidth	150 Mbps (Shared)
Access speed	54 Mbps
Availability in most computing labs	All Labs
Availability in departments and other units	All Departments
Availability in faculty rooms	All Faculty Rooms

Details of Wi-Fi Facility

No of Wi-Fi Access Points	Specifications	Date of PO	Cost	Features Available
5 Locations Main Bulding Enterance passage 1No. Main Bulding Second floor 1 No. Main Building Third Floor 1 N0. Library Terrace for Hostels 2 No.	**Zonefles Ruckus R510 Unleashed , Dual Band 802.11ac Access Point** Mid-range 802.11ac Wave 2 AP with MU-MIMO and BeamFlex+ Concurrent Users :- 512 Rx Sensitivity :- -103dBm Maximum PHY Rate :- 867 Mbps (5GHz), 300 Mbps (2.4GHz) Radio Chains- Streams :- 2x2:2 ChannelFly :- Yes BeamFlex Gains:- 4dB Smart Meshing :- Yes Wi-Fi Technology:- 802.11ac Wave 2 (5GHz), 802.11n (2.4GHz) Max. Interference Mitigation:- 10dB USB:- Yes PD-MRC:- Yes Ethernet Ports:- 2	18.08.2018	1,32,573.00	**Stunning Wi-Fi Performance** Provide a great user experience no matter how challenging the environment with BeamFlex+ adaptive antenna technology and a library of 64 directional antenna patterns. **Serve More Devices** Connect more devices simultaneously with two MU-MIMO spatial streams and concurrent dual-band 2.4/5GHz radios while enhancing non-Wave 2 device performance. **Get Optimal Throughput** ChannelFly dynamic channel technology uses machine learning to automatically find the least congested channels. You always get the highest throughput the band can support. **MULTIPLE MANAGEMENT OPTIONS** Manage the R510 from the cloud, with on-premises physical/virtual appliances, or without a controller.

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No of Wi-Fi Access Points	Specifications	Date of PO	Cost	Features Available
9 Locations Main Bulding Enterance passage 1No. Main Bulding First floor 2 No. Main Bulding Second floor 2 No. Main Building Third Floor 2 N0. Library Terrace for Hostels 2 No.	**Quantum QN-I 220** QUANTUM QN-1-220 DUAL-BAND 802.11ABGN/AC WAVE 2 INDOOR WIRELESS ACCESS POINT, 2X2:2 STREAMS,, 3 X 1G BASE-T PORTS, 802.3AF/AT POE SUPPORT. INCLUDES 3 YEARS AP ONLINE ACTIVATION WARRANTY. DOES NOT INCLUDE POE INJECTOR OR POWER ADAPTOR. DOES NOT INCLUDE CLOUD CONTROLLER LICENSE. (Part No.-QN-1-220)	27.02.2023	1,43,724.00	**Stunning Wi-Fi Performance** Provide a great user experience no matter how challenging the environment with BeamFlex+ adaptive antenna technology and a library of 64 directional antenna patterns. **Serve More Devices** Connect more devices simultaneously with two MU-MIMO spatial streams and concurrent dual-band 2.4/5GHz radios while enhancing non-Wave 2 device performance. **Get Optimal Throughput** ChannelFly dynamic channel technology uses machine learning to automatically find the least congested channels. You always get the highest throughput the band can support.
4.	**Dlink R15 Wireless Router**	27.02.2023	14000	**MULTIPLE MANAGEMENT OPTIONS** Manage the R510 from the cloud, with on-premises physical/virtual appliances, or without a controller.

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INNOVATION & LEADERSHIP
www.isquareit.edu.in

Details of Internet Facility

Name of the Internet provider	Tata Communications and Bharat Sanchar Nigam Limited
Available bandwidth	48 Mbps + 150 Mbps (Shared)
Access speed	1000/100 Mbps
Availability in most computing labs	All Labs
Availability in departments and other units	All Departments and Other units
Availability in faculty rooms	All Faculty Rooms
Institute's own e-mail facility to faculty/students	Institute's own email facility to All Faculties
Security/privacy to e-mail/internet users	Centralized Hardware Firewall & Endpoint Security system

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Details of Servers

Sr. No.	Name of Server	Configuration / Specifications	Purpose	Cost
1	Dell PowerEdge R-510	Intel Xeon E5620 2.40 GHz, 12 M Cache, On board Gigabit Ethernet, 8 Gb RAM (2x4) RDIMM,146x3 GB SAS HDD,DVD ROM,Keyboard, Mouse	N-Computing Server	1,25,000/-
2	Dell PowerEdge R-610	Intel Xeon 2.4GHz E5620, 12 M Cache,Dual Processor, 300 GB x 4 SAS HDD,8 GB RDIMM RAM, DVD ROM,Keyboar Mouse	Active Directory Server	1,58,832/-
3	Dell PowerEdge R-610	Intel Xeon 2.4GHz E5620, 12 M Cache,Dual Processor, 300 GB x 4 SAS HDD,8 GB RDIMM RAM, DVD ROM,Keyboar Mouse	PPCRC Web Server	1,58,832/-
4	HPE DL380 Gen10	Intel Xeon 4208 2.1GHz/8C/11MB/85W, 1x32GB RAM, HPE 600GB SAS 10K SFF SC DS HDD X 4 Qty. 500W Power Supply Kit 1Qty with 5 Years Warranty	http://isquareit.edu.in Web Server	2,79,365/-
5	Dell PowerEdge R-450	Intel Xeon Silver 4314, 2.4 GHz CPU,16 Core/ 32 Threades,24 M Cache,4x1.2 TB SAS HDD, 2x16 GB RAM	Active Directory Backup Server	3,56,360/-

Details of Desktops configured as Server

Sr. No.	Name of Server	Configuration / Specifications	Purpose	Cost
1	HP 280G1	Intel Core i5, 4590,4 GB RAM,500 GB HDD	Web Server for Student's Project	37800/-
2	HP D220	Intel P-IV, Intel 2.4Ghz Processor,2 GB DDR1 RAM, 40 GB PATA HDD	Language Lab Server	39,048.95/-
3	HP 4000 Pro	Intel Core 2 Duo, 4 Gb RAM, 500 GB HDD SATA Windows 7, HP 18.5" Monitor, HP PS/2 Optical Mouse ,HP PS/2 Keyboard	CloneZilla DRBL Server	34728.75/-

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Details of LAN Facility

RACK Details: -

Name of Item	Quantity	Specifications	Cost
42 U President rack	12	Rack 42 U/600 /800 D with front glass door toughened 42U /600 W, Rear Door 42U/600W, AC distribution box of 14 Sockets, Metal Powder coated cable manager ,Fan 90 CFM 230 VAC	3,00,807/-
22 U President Rack	2	Rack 19" 22 U/600 mm with front glass door, Rear door Caster, AC distribution box of 6 Sockets, Cable Manager 19 " , Fan 90 CFM 230 VAC,	37,000/-
15 U President Rack	2	Rack wall mounted 15 U/500 mm with front glass door, AC distribution box of 4 Sockets, Metal Powder coated cable manager Fan,19" Cantilever shelf	12,335/-
12 U President Rack	4	Rack wall mounted 12 U/500 mm with front glass door, AC distribution box of 4 Sockets, Metal Powder coated cable manager Fan,19" Cantilever shelf	28,200/-
17 U D-Link Rack	2	Rack 17 U 600x800 with Standard accessories	36,108/-
Total No.	**22**	Total Cost	**4,14,450/-**

Switches Details:-

Name of Item	Quantity	Specification	Cost
Cisco SG 300-10 SFP Gbic	1	Interfaces: 10 x SFP (mini-GBIC); 2 x 10BASE-T/100BASE-TX/1000BASE-T - RJ-45; 1 x console - 9 pin D-Sub (DB-9) - management, Ports: 10-port Gigabit SFP (2 combo) Device Type: Switch - 10 ports - L3 – managed	21,358/-
D-Link DES 3226S Manageble Switch D-Link DES 1024+ Switch	13 47	DES 3226S Managed 24 port 10/100 Base TX with 2 port optional Modules, Des 332GS Stacking Module with Stack cables,DGS701 Single port Gbic module 1000 base SX DES 1024 R+ 24 port 10/100 Mbps unmanaged stand-alone dual speed	5,60,450/- 3,21,350/-

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		switch	
D-Link DGS 1024D 24 Port	8	DES 1024 D 24 port 10/100 Mbps unmanaged stand-alone dual speed switch	61,600/-
D-Link 24 port DES-3200-26	3	24 -Port 10/100 Mbps with 2 Combo 1000Base-T/SFP port L2 Managed Switch	65,990/-
D-Link 8 Port switch	9	8 Port 10/100 Mbps unmanaged stand-alone Switch	8,525/-
Dlink1016D	1	16 Port 10/100 Mbps Unmanaged Stand-alone switch	2,650/-
KVM Switch	3	2 port and 8 port KVM Switch with OSD for 2 servers to 1 user console and OSD for 8 servers to 1 user consoles	34,692/-
NetGear 28 & 8 Port Poe Switch	4	Subtype:- Gigabit Ethernet. Ports. 24 x 10/100/1000 (PoE+) + 4 x Gigabit SFP. Power Over Ethernet (PoE) PoE+ PoE Budget. 190. Capacity. ACL: 100. ARP entries: 512. Jumbo Frame Support. 10KB. Authentication Method. RADIUS, TACACS+ Flash Memory. 32 MB.	83,318/-
Nortel BayStack 325	10	Nortel Baystack 2 Port 10/100/1000 Port , 24 no 10/100 Mbps Ports	2,49,000/-
Total no of Switches	**100**	**Total Cost**	**14,28,757/-**

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Details of CCTV Facility

CCTV CAMERA DETAILS

NO.	Item Name	Item Description	Qty.	Cost
1	DS-2CD2110F-I	1.3 MP Dome Camera, Progressive CMOS. 4mm Lens, IP66, 30 Mtr.IR,32 GB Slot	17	86063
2	DS-2CD2032F-I	3 MP Bullet Camera, Progressive CMOS. 4mm Lens, IP66, 30 Mtr.IR,32 GB Slot	12	83700
3	DS-2CD2232-I5-I	3 MP Bullet Camera, Progressive CMOS. 6mm Lens, IP66, 50 Mtr.IR,32 GB Slot	1	9563
4	2CD-2032-I5	3 MP Bullet Camera, Progressive CMOS. 4mm Lens, IP66, 30 Mtr.IR RAnge,32 GB Slot	8	55800
5	2CD-2010-I5	1.3 Mp mini Bullet camera, 1/3" Progressive CMOS,6mm Lens, ICR/25 fsp/30 Metre IR Range,IP66	8	40500
6	DS-2CD2112-I	1.3 MP Outdoor Dome Camera,1/3" Progressive CMOS,1280x960:25fsp,6MM Lens,IP66,30 Mtr. IR Range	4	30600
7	DS-2CD2032-I	3 MP mini Bullet Camera, Progressive CMOS. 4mm Lens, IP66, 30 Mtr.IR,32 GB Slot	1	11081
		Total Cameras :-	51	**317307/-**

CCTV CAMERA NVR DETAILS

NO.	Item Name	Item Description	Qty	Cost
1	DS-7732NI-E4	NVR 32Ch-IP Camera Input, HDMI and VGA output,4 SATA HDD, Alarm in & out, 2 USB2,200 MBPS Bandwidth	2	48375
2	WD SATA HDD	WD SATA HDD 40	8	88200
		Total Cost		**136575/-**

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NO.	Item Name	Item Description	Qty.	Cost
1	DS-2CD3321GO-1	Hikvision Bullet 2 MP 4MM DS-2CD-3021GO-1	12	32400
2	DS-2CD3321GO-1	Hikvision Dom 2 MP 4MM DS-2CD-3021GO-1	21	56700
		Total Camera	33	89100

Total Cost of CCTV Camera Facility: - **5,42,982/-**

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Firewall Details :-

Sonicwall 3700 :-

NO.	Item Name	Item Description	Qty.	Cost
1	Sonicwall Nsa 3700 Appliance (Hardware)	24 x 1 GbE interfaces 4 x 5 GbE interfaces 6 x 10 GbE interfaces 3.5 Gbps of threat prevention performance 4.2 Gbps of application inspection performance 2 million stateful and 750,00 DPI connections 22,500 connections per second Dedicated management port	1	1,80,000
2	SonicWALL Protection Service Suite (Software License)	Essential Protection Service for NSa 3700		2,70,150

Total Amount :- 4,50,150 /-

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