

	S J P N Trust's Hirasugar Institute of Technology, Nidasoshi. <i>Inculcating Values, Promoting Prosperity</i> Approved by AICTE, New Delhi, Permanently Affiliated to VTU, Belagavi Recognized under 2(f) & 12B of UGC Act, 1956 Accredited at 'A' Grade by NAAC & Programmes Accredited by NBA: CSE, CE, EEE & ME		Institute
			NAAC- 4.3
			IT Infrastructure
			2021-22

4.3.1 Upgradation of IT facilities including Wi-Fi

Bandwidth Up gradation details

Academic Year	Service Provider	Bandwidth support	Nature of connection
2021-2022	BSNL	104Mbps	Leased Line with 1:1 Contention ratio over OFC
2020-2021	BSNL	36Mbps	
2019-2020	BSNL	54 Mbps	
2018-2019	BSNL	50 Mbps	
2017-2018	BSNL	50 Mbps	
2016-2017	BSNL	32 Mbps	
2015-2016	BSNL	30 Mbps	
2014-2015	BSNL	12 Mbps	
2013-2014	BSNL	8 Mbps	

Details of Computing facilities available in the Institute

Hardware

Sl.No	Name of the laboratory	Area in Sq. mt	Major equipments available	Investment (In lakhs)
1	Microprocessor Lab	70	1. Server(Intel Xeon(R) E:3110, 2 GB RAM, 250 GB HDD): 01 2. PC (Lenovo Core 2Duo 2.936GHz/ 2.94Ghz , 2 GB RAM, 250 GB HDD): 19 3. Interfacing Kit: 16 4. Printer(Epson dot matrix): 01 5. UPS (5KVA): 01	22.14
2	Project Lab/Research Center(A209)	70	1. PC (Intel® Core (TM) i3-10100 CPU@3.60GHz:16 GB, HDD:1 TB): 20 2. Printer(Epson dot matrix): 01 3. UPS (5KVA): 01	20.06
3	System Programming Lab	70	1. PC (Core i3,2/4GB RAM,500 GB HDD): 20 2. Printer(HP Deskjet): 01 3. UPS (5KVA): 01	12.65
4	Algorithms / Networks Lab/ C Programming Lab	70	1. PC (Intel Core 2Duo, 2 GB RAM, 250 GB HDD): 15 2. PC (Intel Core i3, 4 GB RAM, 500 GB HDD): 05 3. Printer(Epson dot matrix): 01 4. UPS (5KVA): 01	19.34
5	Web Programming / DBA Lab	70	1. PC (Intel Core i3/Core 2 Duo , 2 GB RAM, 250/500 GB HDD): 20 2. Printer(Epson dot matrix): 01 3. UPS (5KVA): 01	9.56





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6	Computer Center	150	1. Server(IBM x3200 M3: Intel Xeon Quad core, 8 GB RAM, 500 GB HDD): 01 2. Server(IBM x3200 M2: Intel Xeon, 2 GB RAM, 250 GB HDD): 02 3. Server(IBM xSeries226: Intel P IV, 512 MB RAM, 80 GB HDD): 01 4. PC (Lenovo Intel Core2Duo, 2 GB RAM, 250 GB HDD): 01 5. PC (Lenovo Pentium Core2Duo 2 GB RAM, 250 GB HDD): 02 6. PC (Hp E4600, 4GB RAM, 250 GB HDD): 07 7. PC (Acer Assembled P IV, 1.70Ghz, 512 MB RAM, 40 GB HDD): 01 8. ESYS- Intel D 3Ghz, RAM 1 GB, 160GB HDD : 12 9. Think Centre 4089 Core2 Duo RAM 2GB , 320 GB HDD : 05 10. Think Centre 3156 Core i3 RAM 2GB , 500 GB HDD : 13 11. Server : Intel Xeon E3110 @#GHz RAM 2GB , HDD 250 GB : 03 12. Printer(Epson dot matrix): 01 13. UPS (3 KVA): 01 14. UPS(10 KVA): 01	234.79
7	Research/E-Yantra/DSP/CN Lab	71	1. Dell X3670MT103IN8-Vostro 3670 8th Generation Intel(r) Core (TM)i3-8100 Processor (6MB Cache , Up to 3.6Ghz), 4GB DDR 4 RAM, 1TB HDD: 10 2. DSP Trainers Kits- 06 3. LCD Projectors : 01 4. Robo kits: 01 5. HP Dx 7400 CPU Tower Model, Intel Core Dou, CPU 2.134GHz, 4GB DDRAM-2 RAM, 250GB HDD , Stand Alone : 04 6. HP Laser Printer: 01 + HP 3050 Printer Intel Core-i3-7100 (3mb cache, 3.9ghz), 8Gb 2400Mhz DDr4 memory, 1Tb HDD, 2Gb Graphics Card, Intel HD : 01 7. UPS (5KVA): 01	09.77
8	HDL/MC Lab	71	1. Lenovo think Center 4089A15 Core 2 duo 2.9GHZ processor 2GB DDR3 Ram. 320 GB Sata hard Disk, DVD Writer, Keyboard, optical mouse. 10/100/1000 Ethernet card, sound Card, Lenovo TFT 18.5" Monitor: 19 2. TK Base HDL Kits: 13 3. UPS 7.5 KVA: 01 4. Pattern Generators 5. Microcontrollers Kits with interfacing cards 6. Printer Dot Matrix: 01	19.57





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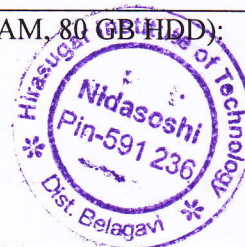
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9	VLSI/EMD Lab	71	1.Dell X3670MT103IN8-Vostro 3670 8th Generation Intel(r) Core (TM)i3-8100 Processor (6MB Cache ,Up to 3.6Ghz),4GB DDR 4 RAM,1TB HDD: 20 2. LPC 1768 Cortex M3 Stater kits with Accessories 3.UPS 7.5 KVA: 01 4. LCD Projector 6.Server IBM make (Support 32& 64 Bit Processor) Intel X3200 M3 Quad Core 4GB, DDR3,500GB HDD: 01	35.50
10	Advanced Communication Lab	72	1.Wipro Ivalue, 915GVchipset,PIV 3.0,1MB cacheHT 800MHz 512MB DDR RAM,PC333,80GB-7200rpm sate HDD, Integrated audio graphics,wipro multimedia keyboard, optical scroll mouse, on board10/100/1000enet1S1,1P1.6USB ports/300w SMPS ,15" monitor ST NO:38119800002-02 2..MIC Test Bench 3.MWR Test Bench 4.OFC Kits 5.Communication Kits etc	15.97
11	Microcontroller Lab (EEE)	72	1.Intel P IV 3.06GHz, 80GB HDD, 512MB RAM: 09 2.Lenovo D 3GHz, 160 GB HDD, 512MB RAM : 01 3.Intel core 2duo 2.6GHz, x2 160Hz GB HDD,2GB RAM : 01 4.Intel core2 duo CPU E7500 @ 2.93GHz HDD 320 GB: 05 5.Intel core i3 3.3GHz, X4, 500GB HDD,2GB RAM: 03 6.Intel core i3 3220 @ 3.3GHz, X4, 500GB HDD, 2GB RAM: 01 7.UPS 3KVA : 01 8.Printer: 01 10.UPS (5KVA): 01	8.50
12	PSS/ 'CAED Lab (EEE)	72	1.Dell Optiplex 3080 MT Desktop 10100 Intel Core i3 10th Gen. 8 GB DDR4HDD: 1TB: 20 2.Server: Intel core2 duo CPU E7500 @2.94GHz HDD 320GB, 2GB RAM: 01 3.UPS (5KVA): 01	18.40
13	CAMD Lab (MECH)	66	1. PC (DellCore i3,4 GB RAM,500 GB HDD): 21 2. Printer(LaserJet): 01 3. UPS (7.5KVA): 01 4. LCD projector: 01	20.14
14	CIM &Automation/CAMA /CAED Lab/ (MECH)	66	1. PC (Assembled P IV, 512 MB RAM, 80 GB HDD): 22 2. LCD projector: 01 3. UPS (10 KVA): 01 4. Licensed Solid Edge software 5. Printer(LaserJet): 01 6. Windows 8.1 operating System: 16 users	37.20



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			7. Software: XL Mill CNC Bench Milling M/c, Catia-V5 , Caps turn & Caps mill, Ansys ED, Auto CAD – 2002, Solid Edge software	
15	Research Center(MECH)	70	1. PC (Lenovo Intel Core i3, 2 GB RAM, 500 GB HDD): 10 2. Printer(Laserjet): 01 3. LCD Projector 4. UPS (5 KVA): 01	3.22
16	Language Lab	50	1. PC (Intel P IV, 512MB/2GB RAM, 80 GB HDD): 10 2. I-Ball head phone with mic: 10 3. UPS (5 KVA): 01 4. E-Class (Cambridge) software	8.25
17	Digital Library	70	1. PC (Lenovo Intel Core i3, 2 GB RAM, 500 GB HDD): 01 2. BLX make Thinclient: 14	6.00

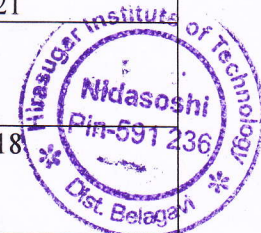
Details of Software available in the Institute

System Software and Utility Software

Sl.No	Particulars	Qty	Year of Establishment
1	Windows 10 Pro	100	2016(50), 2018(50)
2	Windows 8.1 Pro	80	2013
3	Windows 2008R2 Server	05	2012
4	Red Hat Linux	20	2011
5	Windows 7 Pro	30	2011
6	Windows XP	01	2006
7	Windows Server 2003	05	2006
8	Windows ME	01	2002
9	Windows NT	05	2001
10	Quick Heal Anti-Virus	04	2021

Application Software

1	MAT Lab (Tool Box: Simulink 2018b, Neural Network for deep learning, Partial Differential Equation solver, Curve fitting)	01	2018
2	E-Class	01	2015
3	Mi Power for Power System Simulation	10	2007
4	Auto Desk	01	2014
5	MS Office 2010	30	2011
6	Visual Studio 6.0	01	2011
7	Cadence	01	2010
8	EdgeCam 2014 R1	20	2013
9	Ansys R11	25	2009
10	Turbo C++ (for ECE)	01	2006
11	Solid Edge V19	60	2006
12	Micro Wind	01	2005



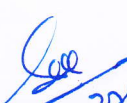
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13	CC Studio	01	2005
14	Xi-Linx	01	2004
15	E-Lib	01	2004
16	ShriLipi	01	2002
17	Turbo C++ (for CSE)	02	2001
18	MS Office 2000	01	2001
19	Oracle 8i	05	2001
20	Catia V5	05	2001
21	Cadem	05	2001

Details of Networking Equipments in Campus including WiFi

Sl.No.	Particulars	Qty	Year of Establishment
1	Aruba AP-105 Access points	04	2015
2	CISCO 3560 Core Switch	01	2011-2017
3	CISCO 2960 Manageable Switch	01	2011
4	Fortigate-310B Firewall	01	2011
5	D-Link Switch 24 Port (Unmanageable)	15	2011-2017
6	Aruba-650 Access Controller	01	2011
7	Aruba AP93 Access Points	32	2011
8	CISCO 2800 Router	01	2006




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