

## 5.0 Norms for Books, Library facilities, Computer, Software, Internet, Printers and Laboratory Equipment of the Technical Institutions

### 5.1 Computers, Software, Internet and Printers

Programme		Number of PCs/ Laptop to student ratio (Minimum 20 PCs)	Legal System Software @	Legal Application Software**	LAN and Internet	Mail Server and Client	Printers including Color Printer (% of total number of PCs/ Laptops)
Engineering and Technology	Diploma	1:6	03	20	All	Desirable	5%
	Under Graduate	1:6					
	Post Graduate	1:4					
Pharmacy	Diploma	1:8	01	10	All	Desirable	5%
	Under Graduate	1:8					
	Post Graduate	1:6					
Architecture and Planning							
a. Architecture	Diploma	1:6	01	10	All	Desirable	5%*
	Under Graduate	1:6					
	Post Graduate	1:4					
b. Planning	Under Graduate	1:6	01	10	All	Desirable	5%*
	Post Graduate	1:4					
Applied Arts, Crafts and Design							
a. Applied Arts and Crafts	Diploma	1:6	01	10	All	Desirable	5%
	Under Graduate	1:6					
	Post Graduate	1:4					
b. Design	Under Graduate	1:6	01	10	All	Desirable	5%
	Post Graduate	1:4					
Hotel Management and Catering Technology	Diploma	1:6	01	10	All	Desirable	5%
	Under Graduate	1:6					
MCA	Post Graduate	1:4	03	20	All	Desirable	5%
Management	Post Graduate	1:6	01	10	All	Desirable	5%

\*At least one printer to be A1 Size Color Printer/ Plotter

\*\* Includes Plagiarism checking Software

Internet speed required for the Institution

Approved Intake	Internet speed
up to 300	32 Mbps
301 - 600	48 Mbps
601 - 900	64 Mbps
901 - 1500	100 Mbps
> 1500	200 Mbps

At least 4Mbps Wi-Fi connectivity at 4 or 5 hotspots shall be made available.

Arrangement to view NPTEL/ SWAYAM etc. shall be made available.

- a. Utilization of Open Source Software shall be encouraged
- b. Secured Wi-Fi facility is highly recommended







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## Switch Details

A Block			
Lab Name	Company Name	Type	Qty.
CP01&CP02	CISCO SF 300-48 PORT, Linksys SLM-224 G2 24 PORT	Switch	2
CP03	CISCO SF 300-48 PORT	Switch	1
CP04	CISCO SF 300-48 PORT	Switch	1
IBM	CISCO SF 300-48 PORT	Switch	2
CP08	DLINK DSE10240 24 PORT,DLINK DSE10248 24 PORT	Switch	2
Server Room	LINKSYS SLM-224 G2 24 PORT,CISCO SF 300-48 PORT CISCO SGE 2000 24 PORT,CISCO L3 24 PORT	Switch	4
Admin Office	CISCO SG300-28, 28 PORT	Switch	1
Registrar Office	DLINK DSE1024 D 24 PORT	Switch	1
Library	DLINK DES-1008D, Dex-DX-5024GS	Switch	2
CP07	DLINK DES-1008D, 8PORT	Switch	1
Placement Cell	CISCO SF 300-24 PORT	Switch	1
SDC Cell	DLINK DSE1024 D 24 PORT	Switch	1
CP5	DLINK 3200	Router	1
CP7	DLINK 3200	Router	1
Auditorium	DLINK 3200	Router	1
EDC	CISCO	Router	1
Placement Cell	DIGISOL DG-WM2005SI	Router	1
A Block Level 2	DLINK 2360	Router	1
Admin Office	RUCUS R610	Router	1
B Block			
Lab Name	Company Name	Type	Qty.
CP-11	CISCO 48 PORT	Switch	1
CP-12	CISCO 48 PORT	Switch	2
	D-LINK DES-1021D 24 PORT		
CP-13	CISCO 48 PORT	Switch	2
	DIGISOL DG-GS 1024 24 PORT		
CP-14	D-LINK 1024R 24 PORT	Switch	2
	D-LINK DES 1024D 24 PORT		
CP-15	D-LINK DES 1016D 24 PORT	Switch	2
	D-LINK DES 1024D 24 PORT		
B Block (2nd Floor)	D-LINK	Router	1

  
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**C BLOCK**

LAB NAME	COMPANY NAME	Type	Qty.
CP-18	CISCO SG-300 28 PORT	Switch	1
CP-18	CISCO SF-300 (48 PORT)	Switch	1
CP-19	CISCO SF-300 (48 PORT)	Switch	1
CP-20	CISCO SF-300 (48 PORT)	Switch	1
CP-21	CISCO SF-300 (48 PORT)	Switch	1
CP-22	CISCO SF-300 (48 PORT)	Switch	1
CP-23	CISCO SF-300 (48 PORT)	Switch	1
CP-26	CISCO SF-300 (48 PORT)	Switch	1
CP-27	CISCO SF-300 (48 PORT)	Switch	1
CLG-19	D-LINK DES-1016D (16 PORT)	Switch	1
CG-20	D-LINK DES-1024R (24 PORT)	Switch	1
CG-15	DLINK DAP-2360B1	Router	1
C-Block Office	TPLINK PHAROS-CPE210	Router	1
CG-12(CP-18)	DLINK DAP-2360B1	Router	1
CG-07	DLINK DWL-3200AP	Router	1
CS-23(CP-22)	DLINK DAP-2360B1	Router	1

**D BLOCK**

LAB NAME	COMPANY NAME	Type	Qty.
Server Room	48 PORT CISCO SWITCH-SG-300-52 PORT	Switch	1
Df-11 Computer Lab	CISCO-SRW2048-K9-EU 48 PORT SWITCH	Switch	1
Staff Room(D-Block)	RUCKUS R-610 With POE ADAPTER	Router	1
RTBI Cell	RUCKUS R-610 With POE ADAPTER	Router	1

  
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### SOFTWARE DETAILS

#### Licensed software

Name of Software	Year	User Department
Microsoft window 10 pro	2018	All
Seqrite Endpoint Security 17.00	2014	All
Cyberoam Firewall	2015	All
Microsoft Campus Agreement	2016	All
Seqrite Endpoint Security 17.00	2014	All
Cyberoam Subscription	2015	All
MSDN Academic Alliance 7.0 AE	2007	All
Tally 9 ERP	2010	Accounts
Digital Language Lab Software	2013	I <sup>ST</sup> Year
Library Management Software (LOASIS)	2008	Library
Fees Management System (GABA Software)		Accounts
ANSYS	2017	ME

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### Open source software

Name of software	Download link	Download department	User department
Apache Open Office	<a href="https://www.openoffice.org/hi/download/">https://www.openoffice.org/hi/download/</a>	All	All
Ubuntu	<a href="https://ubuntu.com/download/desktop">https://ubuntu.com/download/desktop</a>	All	All
Filezilla (FTP)	<a href="https://filezilla-project.org/download.php">https://filezilla-project.org/download.php</a>	CSE	CSE
7 Zip	<a href="https://www.7-zip.org/download.html">https://www.7-zip.org/download.html</a>	All	All
Moodle (For Online Exam)	<a href="https://download.moodle.org/">https://download.moodle.org/</a>	All	All
Mozilla Firefox	<a href="https://www.mozilla.org/en-US/firefox/new/">https://www.mozilla.org/en-US/firefox/new/</a>	All	All
VLC Media Player	<a href="https://www.videolan.org/vlc/download-windows.html">https://www.videolan.org/vlc/download-windows.html</a>	All	All
Linux	<a href="https://www.linux.org/pages/download/">https://www.linux.org/pages/download/</a>	All	All
Tdm-GCC	<a href="https://sourceforge.net/projects/tdm-gcc/">https://sourceforge.net/projects/tdm-gcc/</a>	All	All
Python	<a href="https://www.python.org/downloads/">https://www.python.org/downloads/</a>	CSE/IT	CSE/IT
PHP	<a href="https://www.php.net/downloads.php">https://www.php.net/downloads.php</a>	CSE/IT	CSE/IT
XAMPP	<a href="https://www.apachefriends.org/download.html">https://www.apachefriends.org/download.html</a>	CSE/IT	CSE/IT
SCI Lab	<a href="https://www.scilab.org/download/6.0.2">https://www.scilab.org/download/6.0.2</a>	ME/CSE/EC E	ME/CSE/ECE
FREECAD	<a href="https://www.freecadweb.org/downloads.php">https://www.freecadweb.org/downloads.php</a>	ME	ME
Multisim live™	<a href="https://www.malavida.com/en/soft/nimultisim/#gref">https://www.malavida.com/en/soft/nimultisim/#gref</a>	EE	EE
Logisim	<a href="http://www.cburch.com/logisim/download.html">http://www.cburch.com/logisim/download.html</a>	EE	EE
ANDES (PYTHON)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE
DCOPFJ (JAVA)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE
MATACDC (MATLAB)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE
MATDYN (MATLAB)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE
MATPOWER (MATLAB-BASED)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE

  
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PSAT (Matlab-Based)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE
PYPOWER (Python/MATPOWER)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE
Synthetic PF/OPF (PowerWorld/MATPOWER)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE
ANDES (Python)	<a href="http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm">http://www2.econ.iastate.edu/tesfatsi/ElectricOSS.htm</a>	EE	EE

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### SERVER DETAIL

Name of Server	Configuration
Software server (FTP)	HP Core I5-4590 3.00 Ghz, Intel® H81 Chipset, 4 GB DDR3 1333Mhz, 1 TB HDD
NPTEL	HPE DL380 Gen10 3106 1P 16G 8LFF Svr Xeon-B 3106 8C, 1.7GHz, 1x 16GB, 4x1GbE NIC(embedded), S100i(embedded)
Accounts	Intel H61 Chipset, Intel Corei-3, 2100, 3.1Ghz, 3M Cache, 2x2 GB DDR3 Ram, 1333 Mhz, 320 GB SATA 3.0 Gbp
Digital Library	Intel H61 Chipset, Intel Corei-3, 2100, 3.1Ghz, 3M Cache, 2x2 GB DDR3 Ram, 1333 Mhz, 320 GB SATA 3.0 Gbp
Antivirus Server	HP Core I5-4590 3.00 Ghz, Intel® H81 Chipset, 4 GB DDR3 1333Mhz, 1 TB HDD

  
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### UPS and GENSET Detail

Facility	KVA	Company
Online UPS and Genset	15 KVA	DB
	15 KVA	DB
	10 KVA	DB
	20 KVA	Numeric
	3 KVA	Numeric
	10 KVA	RS Power
	10 KVA	DB

  
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**List of Printers**

S.No.	Location	Printer
1	Staff Room - CP 1 Lab	1
2	Director Sir	1
3	Managing Director Sir	1
4	Library	1
5	Accounts	2
6	OS Office	1
7	Principal Sir	1
8	P.A. to Principal	1
9	Rahul Saxena	2
10	Admission Cell	1
11	Examination Section	3
12	Staff Room - First Floor	1
13	HR Department	3
14	Server Room	1
15	PK Tiwari Sir Room	1
16	EDC - IIPC	3
17	HOD EE	1
18	HOD ECE	2
19	HOD ME	2
20	Mr. S N Gupta	1
21	EE Deptt	1
22	Mr. P.K. Gupta (CAO)	1
23	Parveen Sharma	1
24	M I A Lab	1
25	IT HOD	2
26	IT Staff Room	1
27	Examnation Control	1
28	1st Year Chief Cordinator	1
29	HOD Physics	1
30	HOD Chemistry	1
31	C Block Reception	2
32	P A to V .C	1
33	Estate engineer	1
34	HOD Civil	1
35	HOD Math	1
36	HOD English	1
37	Civil Staff Room	1
38	S D O	1
39	Boys Hostel I	1
40	HR Room	2
41	Alumni Cell	1
42	Utpal Chaturvedi	1
43	Outset Department	1

  
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