



AJAY KUMAR GARG ENGINEERING COLLEGE

(Affiliated to Dr. APJ Abdul Kalam Technical University, Lucknow, UP, College Code - 027)

ROOM LOCATION			
CLASSROOMS			
Building Name	Location	Classroom Numbers	TOTAL
CSIT BLOCK (90.9 Sq. M.)	Ground Floor	Room No CL1-CL6	6
	First Floor	Room No CL7-CL16	10
	Second Floor	Room No CL17-CL26	10
LT BLOCK (90.9 Sq. M.)	Ground Floor	Room No LT1-LT9	9
	First Floor	Room No LT10-LT18	9
	Second Floor	Room No LT19-LT27	9
ME BLOCK (80 Sq. M.)	Second Floor	Room No ML40-ML44	5
NLT BLOCK (90.9 Sq. M.)	Ground Floor	Room No NLT1-NLT7	7
TOTAL			65
TUTORIAL ROOMS			
Building Name	Location	Numbers	TOTAL
ME BLOCK (50 Sq. M.)	First Floor	Tutorial Room No ML30-ML36	7
Back Block (49.2, 49.42.4 Sq. M.)	Ground Floor	Tutorial Room No BB1-BB3	3
NLT BLOCK (90.9 Sq. M.)	Ground Floor	Tutorial Room No NLT8-NLT12	5
CSIT BLOCK (90.9 Sq. M.)	Fifth Floor	Tutorial Room No 501	1
	Fifth Floor	Tutorial Room No 510	1
	Fourth Floor	Tutorial Room No 401	1
BACK BLOCK (49.2 Sq. M.)	First Floor	Tutorial Room No 6	1
	Second Floor	Tutorial Room No 7	1
ME BLOCK (87 Sq. M.)	First Floor	Tutorial Room No ME 01	1
MCA BLOCK (40 Sq. M.)	Second Floor	Tutorial Room No MCA 01	1
TOTAL			22
SEMINAR HALL/CONFERENCE ROOM/AUDITORIUM			
Building Name	Location	Seminar Hall	
CSIT BLOCK (183.2 Sq. M.)	First Floor	CSIT Auditorium	
ME BLOCK (79.8 Sq. M.)	First Floor	ME Conference Hall	
ADMINISTRATIVE BLOCK (233.1 Sq. M.)	Second Floor	Main Seminar Hall	
ADMINISTRATIVE BLOCK (85 Sq. M.)	Second Floor	Mini Seminar Hall 1	
ADMINISTRATIVE BLOCK (85 Sq. M.)	Second Floor	Mini Seminar Hall 2	
DEPARTMENTAL LIBRARY			
Building Name	Location	LIBRARY	

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CSIT BLOCK (90.3 Sq. M.)	Fourth Floor	Departmental Library (CSE)
	Fifth Floor	Departmental Library (IT)
	Fifth Floor	Departmental Library (CE)
Back Block (36.5 Sq. M.)	Ground Floor	Departmental Library (ASH)
	First Floor	Departmental Library (ECE)
	Second Floor	Departmental Library (EEE)
ME BLOCK (87 Sq. M.)	First Floor	Departmental Library (ME)
MCA BLOCK (36.5 Sq. M.)	Second Floor	Departmental Library (MCA)



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LAB LOCATION DEPARTMENT WISE				
S.NO	LAB NO./ LAB NAME	LOCATION	LAB EQUIPMENT AND CONFIGURATION WITH QUANTITY	DEPARTMENT
1	Civil cad lab	CSIT BLOCK FIFTH FLOOR	30 systems: hp core i5. Processor, 8 gb ram, 500 gb hdd, 18.5" lcd monitor, keyboard and optical mouse, nisa software (no. Of user: 05 nos), staad pro.	Civil Engineering
2	Fluid mechanics	ME BLOCK SECOND FLOOR	Venturi meter and orifice meter. R. K. Scientific 1 Apparatus for laminar and turbulent flow. R. K. Scientific 1 Apparatus for losses in pipe fitting. R. K. Scientific 1 Apparatus for metacentric height. R. K. Scientific 1 Darcys law apparatus. R. K. Scientific 1 Impact of jet apparatus. R. K. Scientific 1 Surface tension apparatus. R. K. Scientific 1 Electrical analogy apparatus. R. K. Scientific 1 Conducting orifice & mouthpiece apparatus. R. K. Scientific 1 Rectangular notch & triangular notch. R. K. Scientific 1 Bernoulli's theorem. R. K. Scientific 1	
3	Hydraulic & hydraulics machines lab	ME BLOCK GROUND FLOOR	01) tilting bed flow channel (length 2.5 mtr, width 125mm, depth 200mm)	
4	Building material and constructions lab	PROJECT LAB GROUND FLOOR	01) aggregate crushing value app. (75mm dia) 01) aggregate crushing value app. (150mm dia) 01) aggregate impact test app with hammer of 13.75 kg, cylindrical cup & metal measure and a tamping rod 10mm dia x 230mm long 04) Le Chatelier mould, conforming (30mm x 30mm), one split cylinder 30mm dia 30mm high, two glass plates, one lead weight approximately 100g	



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			01) le chatelier water bath 02) vicat apparatus , mould in the form of frustum of a cone 70mm bottom dia, 60mm top dia and 40mm high with base plate, needle 1mm dia x 50mm long, plunger 10mm,19mm,12.5mm dia x 50mm,44.4mm,25mm long 06) cube mould 70.6mm, 150mm) 01) compression testing machine capacity 2000kn 01) density basket size 20cm dia 20cm high 01) tensile strength tester 01) briquette mould the minimum cross section of the briqueties cast is 25.4mm x 25.4mm 01) hot air oven inside chamber stainless steel with air circulating fan and digital temperature controller, size 18” x 18” x 18” 01) electronic balance capacity 30kg 02) steel pan 13) sieve (set of sieve 200mm dia)	
5	Concrete lab	PROJECT LAB GROUND FLOOR	2) slump test apparatus with tamping rod and base plate 1) Compaction factor apparatus 1)aimil consistometer 1)flow table , motorised 1)edi compression testing machine 2000kn capacity 1) vibrating table , table top 750mm x 750mm , single phase 3) beam mould , 100mm x 100mm x 500mm specimens 3) cylindrical mould , cast iron , split lengthwise 150 mm dia x 300 mm high , with isi certification mark is : 10086 12) mould cast iron for 150mm cube with isi certification mark is : 10086 & base plate 6) gauging trowel , 200mm long blade weight 210 gm	



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			<ol style="list-style-type: none"> 1) Tamping bar , steel 25mm x 25 mm square ramming face 400mm long , 2kg in weight with isi certification 2) Scoop, stainless steel capacity 2kg 4) steel scale , 300mm <ol style="list-style-type: none"> 1) Electronic balance 50kg x 5gm dz -50 , pan size 400x400mm 4) bucket capacity of 14 litre <ol style="list-style-type: none"> 1) Laboratory capacity 40 litres 1) digital flexure testing machine 1) curing tank for 12/24 moulds of 150mm /70.6mm size 4) mild steel pan (tasla) 2) Spade (fawra) <ol style="list-style-type: none"> 1) silver schmidt concrete test hammer pc , type n schmidt pc type n , battery charger with usb cable data carrier with software , carrying strap, grinding stone chalk , documentation & carrying bag 1) pundit lab + consisting of display unit , 2 transducers (54khz) , 2bnc cable 1.5m couplant , calibration rod , battery charger with usb cable , 4x aa(lr6) batteries ,data carrier with software , documentation and carrying case 	
6	Enviromental engineering lab	CSIT BLOCK FIFTH FLOOR	<ol style="list-style-type: none"> 01) dessicator with plate 8" 03) pipette stand 02) thermometer 0- 110 c 03) dropper 6" 	



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			01) spatula (ss) 03) silica crucible 25mm 02) measuring jug 01) ph meter 01) turbidity meter 01) tds meter 01) laboratory hot air oven 01) water bath	
7	Geo-informatics lab	CSIT BLOCK FIFTH FLOOR	01) total station with standard accessories, telescopic range pole, prism assy, tripod 02) electronic theodolite 03) handheld gps 03) auto level (360 deg) 03) mirror stereoscope 2/2 03) pocket stereoscope 03) prismatic compass 03) disto meter for direct distance measurement	
8	Geotechnical lab	CSIT BLOCK FIFTH FLOOR	1) triaxial testing apparatus comprising the following frame, motorised, 50kn. Triaxial cell, for 38mm diameter specimen lateral pressure assembly (0-10 kg/cm ²) proving ring 500kg cap., dial gauge 0.01x 25 mm, pore water pressure apparatus (01000kpa) 01) hs34.70 static cone penetrometer hand operated 30kn 01) three gang bench type consolidometer 01) direct shear apparatus motorised, supplied complete with proving ring and 02nos. Of dial gauge of 0.01 x 25mm 01) laboratory cbr test apparatus motorised is: 2720 part - 16 01) standard penetration test 01) universal permeameter is: 2720 part - 17 01) sieve shaker motorised 01) adopter for 300mm dia sieve 01) dynamic cone	



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			01) hot air oven 01) electronic balance 02) liquid limit device hand operated with counter 01) rapid moisture meter 01) glass desiccator 01) auger outfit 02) plastic limit apparatus 06) pycnometer 01) hydrometer 02) hydrometer glass jar	
9	Structural analysis lab	CSIT BLOCK FIFTH FLOOR	01) apparatus for verification of clerk's maxwell reciprocal theorem 01) three hinged arch apparatus 01) two hinged arch apparatus 01) curved member apparatus 01) deflection of trust apparatus 01) behavior of column & struts 01) unsymmetrical bending apparatus 01) flexural rigidity (ei) 01) redundant joint apparatus	
10	Survey lab	CSIT BLOCK FIFTH FLOOR	02) vernier transit theodolite size 175mm 03) levelling staff size 4mtr 03) survey compass size 100mm 12) surveying chain 30mtr 06) metallic tapes 03) tilting level	
11	Transportation lab	PROJECT LAB GROUND FLOOR	01) los angels abrasion testing machine is: 10070-1982 with 1.7mm 01) marshall apparatus electrically operated) astm d- 1559 with proving ring & dial gauge 01) ductility testing machine 01) film stripping device (electrically operated)	



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			02) flash & fire point apparatus 02) ring & ball apparatus 01) centrifuge extractor 01) universal penetrometer with automatic time controller 01) water bath for bitumen sample 01) electronic balance capacity 0.5 kg readability 0.1gm 01) aggregate impact test apparatus with automatic blow center 01) aggregate impact test apparatus (150mm) 01) hot plate, 200mm dia 10) standard test sieves size 300,100,80,63,40,25,20,12.5,4.75,6.3mm & lid, pan 01) density basket 02) length gauge 02) thickness gauge	
12	M.tech. Cse research & development lab	CSIT BLOCK THIRD FLOOR	Lenovo intel core i3 / 3.40 ghz/10 gb ram / 500 gb hdd / 18.5" led monitor/ kbd/ mouse - 36 no. Hp intel core i5/3.0 ghz /8 gb ram / 1 tb hdd /18.5 " led monitor / kbd /mouse/ - 01 no. Printer- 01 no. , projector- 01 no.	Computer Science & Engineering
13	Algorithm lab	CSIT BLOCK FOURTH FLOOR	Hp intel core i5 /3.0 ghz /10 gb ram / 500 gb hdd /18.5 " led monitor / kbd /mouse - 37 no.	



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			Printer- 01 no.	
14	Artificial intelligence lab	CSIT BLOCK THIRD FLOOR	<p>Hp core i3/3.10 ghz /10 gb ram / 500 gb hdd /18.5 " lcd monitor / kbd /mouse -37 no.</p> <p>Printer-01 no.</p>	
15	Basic application development lab	CSIT BLOCK FOURTH FLOOR	<p>Hp intel core i5/3.0 ghz /10 gb ram / 500 gb hdd/ 18.5 " led monitor / kbd /mouse -30 no.</p> <p>Lenovo intel core i3 /3.40 ghz /10 gb ram / 500 gb hdd /18.5 " led monitor, 2 crt & 2 15" tft / kbd /mouse -07 no.</p> <p>Printer-01 no.</p>	
16	Compiler lab	CSIT BLOCK THIRD FLOOR	<p>Hp core i3/3.10 ghz /10 gb ram / 500 gb hdd /18.5 " lcd monitor / kbd /mouse -25 no.</p> <p>Hp core i3/2.90 ghz /10 gb ram / 500 gb hdd /18.5 " led monitor / kbd /mouse -12 no.</p> <p>Printer-01 no.</p>	



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17	Computer programming lab	CSIT BLOCK FOURTH FLOOR	<p>Hp intel core i5/3.0 ghz /10 gb ram / 500 gb hdd/ 18.5 " led monitor / kbd /mouse -30 no.</p> <p>Lenovo intel core i3 /3.40 ghz /10 gb ram / 500 gb hdd /18.5 " led monitor, 2 crt & 2 15" tft / kbd /mouse -07 no.</p> <p>Printer-01 no.</p>	
18	Data structure lab	CSIT BLOCK FOURTH FLOOR	<p>Hp core i5/3.0 ghz /10 gb ram / 500 gb hdd /18.5 " lcd monitor / kbd /mouse -35 no.</p> <p>Lenovo intel core i3 / 3.40 ghz/10 gb ram / 500 gb hdd / 18.5" led monitor/ kbd/ mouse -01 no.</p> <p>Printer-01 no.</p>	
19	Dbms lab	CSIT BLOCK FOURTH FLOOR	<p>Hp core i3/2.90 ghz /10 gb ram / 500 gb hdd /18.5 " lcd monitor / kbd /mouse-37 no.</p> <p>Printer-01 no.</p>	
20	Distributed system lab	CSIT BLOCK THIRD FLOOR	<p>Hp core i3/3.10 ghz /10 gb ram / 500 gb hdd /18.5 " lcd monitor / kbd /mouse -37 no.</p> <p>Printer-01 no.</p>	



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21	Operating system lab	CSIT BLOCK FOURTH FLOOR	<p>Hp intel core i5 /3.0 ghz /10 gb ram / 500 gb hdd /18.5 " led monitor / kbd /mouse -37 no.</p> <p>Printer-01 no.</p>	
22	M.tech. Cse lab	CSIT BLOCK THIRD FLOOR	<p>Lenovo intel core i3 / 3.40 ghz/10 gb ram / 500 gb hdd / 18.5" led monitor/ kbd/ mouse -36 no.</p> <p>Hp intel core i5/3.0 ghz /8 gb ram / 1 tb hdd /18.5 " led monitor / kbd /mouse/ -01 no.</p> <p>Printer-01 no. , projector-01 no.</p>	
23	Advanced programming lab	CSIT BLOCK THIRD FLOOR	<p>Hp core i3/3.10 ghz /10 gb ram / 500 gb hdd /18.5 " lcd monitor / kbd /mouse -25 no.</p> <p>Hp core i3/2.90 ghz /10 gb ram / 500 gb hdd /18.5 " led monitor / kbd /mouse -12 no.</p> <p>Printer-01 no.</p>	



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24	Cse project lab	CSIT BLOCK FOURTH FLOOR	<p>Hp intel core i5/3.0 ghz /10 gb ram / 500 gb hdd/ 18.5 " led monitor / kbd /mouse -08 no.</p> <p>Hp intel core i5/3.0 ghz /8 gb ram / 1 tb hdd /18.5 " led monitor / kbd /mouse -08 no.</p> <p>Hp intel core i3 /2.90 ghz /10 gb ram / 500 gb hdd/ 18.5 " led monitor/kbd/ mouse -03 no.</p> <p>Hp intel core i3 /3.10 ghz /10 gb ram / 500 gb hdd/ 18.5 " lcd monitor/kbd/ mouse -01 no.</p> <p>Lenovo intel core i3 / 3.40 ghz/10 gb ram / 500 gb hdd / 18.5" led monitor/ kbd/ mouse -10 no.</p> <p>Projector-01 no.</p>	
25	Computer graphics lab	CSIT BLOCK THIRD FLOOR	<p>Hp core i5/3.0 ghz /10 gb ram / 500 gb hdd /18.5 " lcd monitor / kbd /mouse -35 no.</p> <p>Lenovo intel core i3 / 3.40 ghz/10 gb ram / 500 gb hdd / 18.5" led monitor/ kbd/ mouse -01 no.</p> <p>Printer-01 no.</p>	
26	Electrical machine lab	BACK BLOCK GROUND FLOOR	<p>Digital techometer (0-9999 rpm) - 4 no.</p> <p>Analog techometer (0-9999 rpm) - 1 no.</p> <p>Single phase transformer (2kva, 230/230v, 50%, 86.6%, 100% tapping) - 3</p> <p>No.</p> <p>Dc compound motor (1hp, 4a, 220v, 1250rpm) - 2 no.</p> <p>Dc compound motor (1kw, 4a, 220v, 1500rpm) - 1 no.</p> <p>Dc motor+alternator + excitor set - 1 no.</p> <p>Dc motor + generator set (1kw, 4a, 220v, 1500rpm) - 1 no.</p>	Electrical And Electronics Engineering



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			<p>Loading rheostat (2.5 kw, 220v. 10amp) - 1 no.</p> <p>Dc series motor (1hp, 1500 rpm) - 1 no.</p> <p>Dc power supply unit (input:- 3phase, output:- 240v, 50a dc) - 1 no.</p> <p>Inductive load (3 phase, 415v, 10a) - 1 no.</p> <p>Squirrel cage induction motor (5hp, 3phase, 415v 1440rpm, 50 hz)</p> <p>With star delta starter - 1 no.</p> <p>&quot;v curve set</p> <p>Synchronous motor:- 3 phase, 4.3a, 1500rpm, 415v, 50hz, dc shunt</p> <p>Generator:- 1.5kw, 6.5a, 1500rpm, 230v, excitor:- 230v dc generator. - 1</p> <p>No.&quot;</p> <p>&quot;motor+generator set (set of 2) for parallel operation of Alternators</p> <p>Dc shunt motor:- 3hp, 230v, 1500rpm, alternators:- 3 phase, 4wire,</p> <p>2kva, 1500rpm, 415v, 50hz, with one panel - 2 no.&quot;</p> <p>Ac ammeter 0-5/10a - 8 no.</p> <p>Ac ammeter 0-2.5/5a - 11 no.</p> <p>Dc ammeter 0-2.5/5a - 10 no.</p> <p>Dc ammeter 0-10/20a - 3 no.</p> <p>Ac voltmeter (150/300/600 v) - 12 no.</p> <p>Upf wattmeter (0-400w, 2.5/5a, 150/300/600v) - 10 no.</p> <p>Upf wattmeter (0-750w, 5/10a, 150/300/600v) - 4 no.</p> <p>Upf wattmeter (0-75w, 2.5/5a, 150/300/600v) - 5 no.</p> <p>Three phase dimmerstat (15a 0-470v) - 4 no.</p> <p>Single phase dimmer 10a - 9 no.</p> <p>Slip ring induction motor - 2 no.</p> <p>Dc shunt motor (3hp) + dc shunt generator (2kw) - 1 no.</p> <p>Induction motor (3hp) - 2 no.</p>	
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			<p>Dc compound motor (2.2kw) - 2 no.</p> <p>Dc compound motor (2.2kw, 230v, 1500rpm) + alternator set (2kva, 3</p> <p>Phase, 415v) - 1 no.</p> <p>Three phase transformer (3kva, 400/400v) - 1 no.</p> <p>Rheostat - 5 no.</p> <p>Dso 50mhz (2 channel) - 1 no.</p> <p>Single phase transformer (2kva, 440/220v, 4.5/9a) - 4 no.</p> <p>Single phase transformer (1kva, 230/230v, 4.3/4.3a) - 2 no.</p> <p>Dc motor starter (4 point) - 1 no.</p> <p>Digital multimeter - 5 no.</p> <p>Ac voltmeter (0-150/300v) - 4 no.</p> <p>Dc ammeter (0-5/10a) - 2 no.</p> <p>Single phase dimmer (15a) - 1 no.</p> <p>Single phase transformer (1kva) - 4 no.</p> <p>& computer</p> <p>Hp-15(280gbmt) hdd 500gb, ram-8gb, hp led monitor - 3 no.&quot;</p> <p>Brushless dc motor trainer - 1 no.</p> <p>Transformer trainer including 1. Single phase transformer - 02</p> <p>Nos. 2. Three phase transformer - 01 no. 3. Three phase variac - 01</p> <p>No. 4. Panel - 01 no - 1 no.</p> <p>Vvfv trainer - 1 no.</p> <p>Dc portable voltmeter - 4 no.</p> <p>Power scope - 1 no.</p> <p>Dc compound motor - 1 no.</p> <p>Digital clamp meter - 1 no.</p> <p>Rheostat 1200 ohm, 1.2amp - 1 no.</p> <p>Rheostat 600 ohm, 1.4amp - 1 no.</p> <p>Xpo emt /3 slim with 4*2flat demo panel - 1 no.</p>	
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			Amp meter (0 - 1/2 a) - 1 no.	
27	Electrical workshop-2	BACK BLOCK GROUND FLOOR	Series parallel kit - 1 no. Stair case demo kit - 1 no. Fluorescent tube demo kit - 1 no. Distribution board - 1 no. Rectifier kit (hw & fw) - 1 no. Earth tester - 1 no. Charts - 3 no. House/ commercial wiring installation trainer including portable drill machine - 1 no. " plier - 1 no. Pie kit (screw driver) - 1 no. Pie wire stripper & cutter - 1 no.	
28	M.tech microprocessor lab	ADMINISTRATIVE BLOCK GROUND FLOOR	Microprocessor trainer kit (8085 ad lcd) - 5 no. Microprocessor trainer kit (8086 ad lcd) - 15 no. Power supply for 8086 microprocessor kit - 10 no. Expansion board - 3 no. Stepper motor controller - 2 no. Dsp starter kit (tms320c6713) - 3 no. 8086 microprocessor training kit (et8086-ad-lcd-ps) - 10 no. 8051 microcontroller trainer kit (et-89c51rd2) - 2 no. Microcontroller trainer kit (pic 16f877) - 2 no. Digital storage oscilloscope (1052b) - 2 no. 89c51rd2 embedded trainer kit - 1 no. 8086 microprocessor training kit with smps - 1 no. Temperature controller with mini oven - 1 no. Tms320c6748 dsp development kit - 3 no. Ccd camera with lense & power adopter - 2 no. 8257 dma study card - 5 no. 8251 (usart) study card - 5 no.	



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			<p>Traffic light controller module - 5 no. Raspberry pi 3 module b+ - 5 no. Aurdino uno r3 development board - 5 no. Finger print sensor module - 2 no. Rfid reader module - 2 no. Sound sensors - 2 no. Air quality control gas sensor - 2 no. Soil moisture sensor module - 2 no. Microflow sensor - 2 no. Head phone - 3 no. Micro sd card reader/ otg card reader - 1 no. Remote control pointer clicker - 1 no. Advance microprocessor traininbg kit based on 8085 with lcd display - 3 no. Universal programmer - 1 no. Oshonsoft simulator for 8085 microprocessor kit - 1 no.</p>	
29	Power system lab	ADMINISTRATIVE BLOCK GROUND FLOOR	<p>Idmt over current relay - 1 no. Static inverse time over current relay - 1 no. Voltage polarised single pole directional relay - 1 no. Single pole directional idmt earth/fault relay - 1 no. Single pole instantaneous over current relay - 1 no. Single phase directional relay - 1 no. Micom software relay - 1 no. Transfrmer oil testing set (0-60 kv) - 1 no. Loading rheostat (3 kw,220v,10 a) - 1 no. Rheostat(500ohm,1.2amp) - 1 no. Varic (15 amp,270 volt) - 6 no. Ac ammeter (0-2.5/5 a) - 1 no. Dc ammeter (0-2.5/5 a) - 1 no. Ac ammeter (0-5/10 a) - 3 no. Ac/dc ammeter (0-5/10 a) - 2 no.</p>	



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			<p>Digital timer - 2 no. Power scope (cro) - 2 no. Phase shifting transformer (500 va , 415v) - 2 no. Clamp on multimeter - 1 no. Ac ammeter(0-1/2 a) - 4 no. Desktop (computer) - 5 no. Cable fault locator - 1 no. Numerical based idmt over current relay - 1 no. Distance protection relay - 1 no.</p>	
30	Control system lab	ADMINISTRATIVE BLOCK GROUND FLOOR	<p>A c servomotor speed torque (acs-01) - 2 no. A c servo voltage stabilizer - 1 no. Compensation design kit (cd-02) - 1 no. Dc position control kit (dcp-01, scl 106) - 3 no. Dc speed control kit (dcs-01, scl 107) - 3 no. Digital control system kit - 1 no. Linear system simulator kit - 3 no. Pid controller kit - 1 no. Stepper motor study - 2 no. Synchro transmitter & receiver sd-01 - 2 no. Temperature controller system - 2 no. C r o (20mhz,25mhz,30mhz) - 4 no. D s o 1052b (50mhz) - 2 no. Inverted pendulum trainer ((xpo-pid) - 1 no. Fuzzy logic trainer (xpo-fuzzy) - 1 no. Industrial plc trainer (xpo-plc) - 1 no. Hp desktop computer (i3 10gb ram) - 12 no. Printer hp 1020 - 1 no. Potential error detector by angular - 1 no. Actuators stepper motor - 1 no.</p>	



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31	Electrical & electronics cad lab	ADMINISTRATIVE BLOCK GROUND FLOOR	Hp desktop computer (i5 10gb ram) - 30 no. Digsilent power factory - 25 users P s cadx4(v4 6.3) - 10 users Orcade university pspice software - 20 users Matlab 2021b - 10 user
32	Electrical design and fabrication lab	ADMINISTRATIVE BLOCK GROUND FLOOR	Hp desktop computer (i5 10gb ram) - 30 no. Digsilent power factory - 25 users P s cadx4(v4 6.3) - 10 users Orcade university pspice software - 20 users Matlab 2021b - 10 user
33	Electrical engg. Lab	ADMINISTRATIVE BLOCK GROUND FLOOR	Analog techometer 0-10000 rpm - 1 no. Wattmeter (upf) 2.5/5a,150/300/600v, 0-400w - 1 no. Wattmeter (upf) 5/10a ,50/100v, 0-50w - 1 no. Wattmeter (upf) 2.5/5a, 150/300v , 0-75w - 2 no. Wattmeter (lpf) 2.5/5a,150/300/600v,,cos = 0.2, 0-75w - 2 no. Wattmeter (lpf) 1/2a, 150/300/600v,cos =0.2 0-30w - 1 no. Wattmeter (upf) 5/10a ,50/100v, 0-700w - 2 no. Wattmeter (upf) 1/2a ,50/100v, 0-150w - 1 no. Wattmeter (upf) 2.5/5a,150/300/600v, 0-400w - 2 no. Wattmeter (lpf) 1/2a ,75/150/300v, 0-15w - 4 no. Wattmeter (lpf) 2.5/5a ,75/150/300v, 0-75w - 2 no. Wattmeter (lpf) 2.5/5a ,75/150/300v, 0-30w - 2 no. Wattmeter (upf) 5/10a ,50/100v, 0-750w - 1 no. Wattmeter (lpf) 2.5/5a ,75/150/300v, 0-175w - 2 no. Ac volt meter (150/300/600v) - 2 no. Ac /dc volt meter (150/300/600v) - 4 no. Ac /dc volt meter (150/300/600v) - 2 no. Ac /dc wave shoping ckt.(p2) - 1 no. Ac /dc am meter 5/10a - 1 no.



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			<p> Ac ammetr (0-10/20a) - 3 no. Ac ammetr (0-5/10a) - 1 no. Ac ammetr (0-2.5/5a) - 1 no. Ac ammetr (0-2a) - 1 no. Ac ammetr (0-1/2a) - 1 no. Dc ammeter (0-25/50ma) - 2 no. Dc mili ammeter (0-25/50ma) - 1 no. Dc ammeter (0-5a) - 1 no. Dc ammeter (0-10a) - 2 no. Dc ammeter (0-15a) - 1 no. Dc ammeter (0-5/10a) - 2 no. Dc ammeter (0-10/20a) - 3 no. Digital dc mil iammeter(0-20ma) - 1 no. Digital dc mil iammeter(0-50ma) - 1 no. Dc pawer supply - 1 no. Dc multiple pawer supply - 2 no. Dc volt meter (0-25/50v) - 2 no. Dso - 2 no. Digital techometer (0-9999rpm) - 1 no. Digital multimeter - 2 no. Single phase variac 0-270v,240v,8a - 2 no. Single phase variac 0-270v,240v,4a - 4 no. Three phase variac 0-470v, 8a - 2 no. Cro - 2 no. Frequincy meter - 1 no. Function generator 1mhz. - 1 no. Function generator 1mhz. - 1 no. Rectifier 440v, 3ph. Ac ,output-250v dc,30a,7.5kw - 1 no. Three phase induction motor - 1 no. Motor-genrator set - 1 no. Single phase motor 400w - 1 no. Lcr circuit trainer - 1 no. </p>	
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			<p>Power factor meter (0-150/300/600v) - 1 no. P1 panel -(stand line) or b-h loop kit - 1 no. Single phase transformer 2kva - 1 no. Theorem kit(thevenin, norton, millman, max. T.) - 1 no. Theorem kit(thevenin, norton, millman, max. T.) - 2 no. Single phase energy meter - 1 no. Digital dc milliammeter(0-100ma) - 4 no. Digital wattmeter - 4 no. Capacitor bank - 1 no. Over line cable 11kv,33kv - 2 no. Pin type insulator 11kva - 1 no. Suspension type insulator 11kva - 1 no. Strain type insulator 11kva - 1 no. Digital voltmeter (0-600v) - 5 no. Digital voltmeter (0-150/300/600v) - 4 no. Digital ammeter (0-10amp.) - 5 no. P1 panel -(stand line) or b-h loop kit - 2 no. LCR circuit trainer - 2 no. LCR circuit trainer - 2 no.</p>	
34	Electrical instrumentation lab	ADMINISTRATIVE BLOCK SECOND FLOOR	<p>Lvdt trainer kit. - 1 no. Torque trainer kit. - 1 no. Pressure trainer kit - 3 no. Thermal trainer kit - 1 no. Linear displacement trainer kit - 1 no. Strain gauge trainer kit - 2 no. DMM trainer kit - 1 no. ADC interface kit (adc-0809) - 1 no. Dual DAC interface kit (dac-0800) - 1 no. Strain measurement tutor kit - 1 no. ADC two method 8 bit kit - 1 no. DAC two method 8 bit kit - 1 no. Potentiometer displacement kit - 1 no.</p>	



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			<p>Temperature transducer trainer kit - 1 no. Acquisition data of rtd system - 1 no. Proximity sensor kit - 1 no. Ecg/emg study expt panel - 1 no. Ultrasonic transducer trainer kit - 1 no. Measurement of water level trainer - 1 no. Light sensing transducers - 1 no. Vibration sensor & air flow sensor - 1 no. Rtd thermocouple of thermister kit - 1 no.</p>	
35	Electrical workshop i	ADMINISTRATIVE BLOCK GROUND FLOOR	<p>Series parallel kit - 1 no. Stair case demo kit - 1 no. Fluorescent tube demo kit - 1 no. Distribution board - 1 no. Rectifier kit (hw & fw) - 1 no. Earth tester - 1 no. Charts - 3 no. House/ commercial wiring installation trainer including portable drill machine - 1 no. Pliers - 1 no. Pie kit (screw driver) - 1 no. Pie wire stripper & cutter - 1 no.</p>	
36	Emmi lab	ADMINISTRATIVE BLOCK SECOND FLOOR	<p>Shering bridge - 3 no. Wein's bridge - 3 no. Andreson bridge - 3 no. Kelwin bridge - 2 no. Megger - 1 no. Maxwell bridge - 4 no. Earth tester - 1 no. Hay's bridge - 4 no. Owen's bridge - 2 no.</p>	



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			<p>Dc source - 1 no. Spot galvanometer - 1 no. Function generator (1mhz) - 3 no. Power supply - 2 no. Dc voltmeter (0-150-300 v) - 1 no. Ac voltmeter (0-150-300-600 v) - 1 no. Wattmeter (400 w , 2.5/5 a) - 1 no. Ac ameter (0-5/10 a) - 2 no. Oscillator (1khz) - 2 no. Semi conductor voltmeter kit - 1 no. Radio reciever characterstics set - 1 no. Dso (tektronix) - 1 no. Decade resistance box - 2 no. Lcr meter - 3 no. Desauty bridge - 1 no. Electrical parameter measurement panel - 1 no. Encoder expt panel - 1 no. Voltage / current / energy / watt measurement trainer kit - 1 no. Sensor trainer kit (piezo electric transducer) - 1 no. Sensor trainer kit (speed transducer) - 1 no.</p>	
37	Microprocessor lab	ADMINISTRATIVE BLOCK GROUND FLOOR	<p>Microprocessor trainer kit (8085 ad lcd) - 5 no. Microprocessor trainer kit (8086 ad lcd) - 15 no. Power supply for 8086 microprocessor kit - 10 no. Expension board - 3 no. Stepper motor controller - 2 no. Dsp starter kit (tms320c6713) - 3 no. 8086 microprocessor training kit (et8086-ad-lcd-ps) - 10 no. 8051 microcontroller trainer kit (et-89c51rd2) - 2 no. Microcontroller trainer kit (pic 16f877) - 2 no. Digital storage oscilloscope (1052b) - 2 no.</p>	



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			<p>89c51rd2 embedded trainer kit - 1 no. 8086 microprocessor training kit with smps - 1 no. Temperature controller with mini oven - 1 no. Tms320c6748 dsp development kit - 3 no. Ccd camera with lense & power adopter - 2 no. 8257 dma study card - 5 no. 8251 (usart) study card - 5 no. Traffic light controller module - 5 no. Raspberry pi 3 module b+ - 5 no. Aurdino uno r3 development board - 5 no. Finger print sensor module - 2 no. Rfid reader module - 2 no. Sound sensors - 2 no. Air quality control gas sensor - 2 no. Soil moisture sensor module - 2 no. Microflow sensor - 2 no. Head phone - 3 no. Micro sd card reader/ otg card reader - 1 no. Remote control pointer clicker - 1 no. Advance microprocessor traininbg kit based on 8085 with lcd display - 3 no. Universal programmer - 1 no. Oshonsoft simulator for 8085 microprocessor kit - 1 no.</p>	
38	Network analysis & synthesis	ADMINISTRATIVE BLOCK GROUND FLOOR	<p>Ac single phase rlc - 2 no. Active filter trainer kit - 2 no. Cro (30 mhz) - 3 no. Dc ammeter (0-250 ma) - 5 no. Dc micro ammeter (100 micro amp) - 2 no. Dc micro ammeter (500 micro amp) - 2 no. Dc milli ammmeter (10/20 ma) - 2 no. Dc milli ammmeter (50/100 ma) - 3 no.</p>	



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			<p>Dc milli voltmeter (250/500mv) - 2 no.</p> <p>Dc milli voltmeter (50/100mv) - 2 no.</p> <p>Digital multimeter - 2 no.</p> <p>Dso (50 mhz) - 4 no.</p> <p>Dual power supply - 1 no.</p> <p>Dual trace cro (20 mhz) - 4 no.</p> <p>Frequency response of rlc circuit - 2 no.</p> <p>Function generator (10 mhz) - 3 no.</p> <p>Function generator (1mhz) - 8 no.</p> <p>Function generator (3mhz) - 3 no.</p> <p>Function generator (40 mhz) - 2 no.</p> <p>Interconnection of two port network - 2 no.</p> <p>Kirchoff's law kit - 2 no.</p> <p>Maximum power transfer theorem with digital meter - 1 no.</p> <p>Multiple power supply - 3 no.</p> <p>Multiple power supply (dc) - 2 no.</p> <p>Networks theorem kit - 2 no.</p> <p>Opamp as active filter - 1 no.</p> <p>Rlc resonant kit - 2 no.</p> <p>T & pi network trainer kit - 1 no.</p> <p>Tellegen's theorem kit with digital meter - 1 no.</p> <p>Thevenin's & norton's theorem kit with digital meter - 1 no.</p> <p>Transient response of rc circuit - 1 no.</p> <p>Transient analysis of rc/rl cricuit - 1 no.</p> <p>Transient response of rlc circuit - 4 no.</p> <p>Triple power supply - 2 no.</p> <p>Two port ladder network - 1 no.</p> <p>Two port network parameter kit - 2 no.</p> <p>Two port network trainer kit - 1 no.</p> <p>Two port z & h parameters - 1 no.</p> <p>Voltmeter (0-200v) - 5 no.</p>	
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39	Power electronics lab	ADMINISTRATIVE BLOCK GROUND FLOOR	<p>Auxiliary commutation kit - 1 no. R c trigger circuit kit - 1 no. Vi characteristic of scr kit - 1 no. Ujt trigger circuit kit - 1 no. Chopper circuit - 1 no. Speed control of ac motor using triac kit - 1 no. Complimentary commutation kit - 1 no. Cro (20mhz,30mhz) - 2 no. Single phase half wave&full wave rectifier kit - 1 no. Dso 1052b (25mhz) - 2 no. Power electronics traner (xpo-pe) - 2 no. Converter/inverter panel(pe1) - 1 no. Differential power scope - 2 no. 3 phase hv thyristor control trainer (xpo-hvdc) - 1 no. "3 phase, 1 hp induction motor 1440rpm,415/230,0.24a - 1 no." Dc shunt/series motor - 1 no. 3 phase auto transformar - 1 no. Dv/dt protection &firing circuit - 1 no. Scr application (xpo-pe) - 1 no. Single phase duel converter trainer with pm dc motor(xpo-spdc) - 1 no.</p>	
40	Simulation lab	ADMINISTRATIVE BLOCK GROUND FLOOR	<p>Hp desktop computer (i5 10gb ram) - 30 no. Digsilent power factory - 25 users P s cadx4(v4 6.3) - 10 users Orcade university pspice software - 20 users Matlab 2021b - 10 user</p>	



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41	M.tech. Ece lab	BACK BLOCK FIRST FLOOR	Dso, cro, power supply, function generator, spectrum analyzer, working board and kits, microprocessors and microcontroller kits, computer and components etc.	Electronics & Communication Engg
42	M.tech. Ece simulation and research lab-ii	BACK BLOCK SECOND FLOOR	Netsim software (5 user), optisystem software (3 user), matlab software (20 user), hfss software for rf & antenna design (5 user), multisim software (15 user), ultiboard tool (01), computers, printer etc.	
43	Analog circuits lab	BACK BLOCK FIRST FLOOR	Dso, cros,function generators, pulse generators,ammeters,voltmeters, power supply –triple and multiple, computer, different kits	
44	Antenna & microwave engg. Lab	BACK BLOCK FIRST FLOOR	Hfss antenna tool (5 user), computers, antenna related kits and setups with mic components, radiation pattern of linear antennas, microwave benches along with microwave components with reflex klystron and gunn setup, spectrum analyser etc.	
45	Basics electronics & electronic devices lab	BACK BLOCK FIRST FLOOR	Dso, cros,function generators, pulse generators,ammeters,voltmeters, power supply –triple and multiple, computer, different kits	
46	Basics electronics & pcb design cum mini project lab	BACK BLOCK FIRST FLOOR	Orcad pspice & pcb bundle (10 user), pcb prototype & antenna fabrication machine with software, tina software (01 user), sprint pcb software (unlimited user), computers, printer, pcb curing machine, dual size uv exposure, photoresist dip coater, pcb drilling machine etc.	
47	Cad of electronics lab	BACK BLOCK FIRST FLOOR	Orcad pspice & pcb bundle (10 user), xilinx software (unlimited user), spartan fpga kits/boards, computers and other s/w like tanner (35 user), cadence (10 user), vivado university tool (25 user)with zedboard kit (01 user)	
48	Communication engg. Lab	BACK BLOCK FIRST FLOOR	vissim / comm. 8.0 suite software (10 user), cros, digital storage oscilloscope modulation and demodulation, coding-decoding kits and comm. Systems kits, computers, spectrum	



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			analyser, measurement of temp using rtd, dso, cro, function generator, telemetry and comm., fourier synthesis trainer kits	
49	Control system lab-1	BACK BLOCK FIRST FLOOR	Matlab software (20 + 5 user), computers	
50	Data structure and programming lab	BACK BLOCK SECOND FLOOR	C, c++ language and programming software tools and computers	
51	Digital communication lab	BACK BLOCK FIRST FLOOR	Vissim / comm. 8.0 suite software (10 user), cros, digital storage oscilloscope modulation and demodulation, coding-decoding kits and comm. Systems kits, computers, spectrum analyser, measurement of temp using rtd, dso, cro, function generator, telemetry and comm., fourier synthesis trainer kits	
52	Digital signal processing (dsp) lab	BACK BLOCK FIRST FLOOR	Matlab software (20 +5 user), computers, dsp trainer kits, multiple power supply kits along with headsets etc.	
53	Digital system design lab	BACK BLOCK SECOND FLOOR	Power supply, func. Generator, oscilloscopes, digital trainer kit, dmm, 8085 microprocessor kit, power supply for microprocessor kit, digital ic tester, computer	
54	Ece project lab	BACK BLOCK SECOND FLOOR	Pcb prototype, orcad pspice & pcb bundle (10 user), cros, function generators, multimeters , dso, lcrq meter, solder irons, pcb making components & consumables, computers and software tool etc.	
55	Electronic circuit design lab	BACK BLOCK SECOND FLOOR	Multisim software (15 user), ultiboard tool (01 user), orcad pspice & pcb bundle (10 user), tanner software (35 user), computers, dso/cro, power supply, function generator and multimeters etc.	
56	Electronics measurement & instrumentation lab	BACK BLOCK SECOND FLOOR	cros, function generators, dso, power supplies, radio receiver measurement kit, bridge circuits kit, transducer measurement kits, thermocouple kits, parameter measurement and instrumentation kits	
57	Integrated circuits lab	BACK BLOCK FIRST FLOOR	Ti-analog system alsk pro kits, trainer boards, ic tester, cros, function generators, dso, power supplies, analog trainer kit,	



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			study cards (cmrr, pll, a/d, d/a, i/v, v/i), multimeter, current source and multimeters	
58	Microcontrollers for embedded system lab	BACK BLOCK SECOND FLOOR	Cros, function generators, various study card, smps, computers, ti based microcontroller kits / modules with software	
59	Microprocessors & microcontrollers lab	BACK BLOCK SECOND FLOOR	Power supply, func. Generator, oscilloscopes, digital trainer kit, dmm, microprocessor & microcontrollers kits and simulation software, power supply for microprocessor kit, digital ic tester, computers, ti based mp & mc kits	
60	Optical communication & networking lab	BACK BLOCK FIRST FLOOR	Optisystem software (03 user), optical comm. Kits/setups, spectrum analyser, router, switch, crimping tool, material required for networking, computers etc.	
61	Signals & systems lab	BACK BLOCK FIRST FLOOR	Matlab software (20 + 5 user), computers, dsp trainer kits, multiple power supply kits along with headsets etc.	
62	M.tech. Ece simulation and research lab-i	BACK BLOCK FIRST FLOOR	Visual tcad & symica (1+3 users) and cadence vlsi tools (10 user), orcad pspice & pcb bundle (10 user), vivado university tool (25 user)with zedboard kit (01 user), tanner tool (35 user), xilinx tool (unlimited user), fpga kits/boards, computers and other vlsi s/w	
63	E&i basic electronics & pcb design cum mini project lab	BACK BLOCK FIRST FLOOR	Pcb prototype, orcad pspice & pcb bundle (10 user), pcb prototype & antenna fabrication machine with software, tina software (01 user), sprint pcb software (unlimited user), computers, printer, pcb curing machine, dual size uv exposure, photoresist dip coater, pcb drilling machine etc.	Electronics & Instrumentation Engineering
64	E&i digital system design lab	BACK BLOCK SECOND FLOOR	Power supply, func. Generator, oscilloscopes, digital trainer kit, dmm, 8085 microprocessor kit, power supply for microprocessor kit, digital ic tester, computer	
65	E&i electronics devices and analog circuits lab	BACK BLOCK FIRST FLOOR	Dso, cros,function generators, pulse generators,ammeters,voltmeters, power supply –triple and multiple, computer, different kits	



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66	E&i electronics measurement, instrumentation and transducers lab	BACK BLOCK SECOND FLOOR	Cro, function generator, radio receiver measurement kit, pcm using adc & dac converter, adc to dac using sample and hold ckt kit, deasuty's shearing bridge, optical transducer trainer-ldr instrument, kelvin bridge trainer ,transducer measurement kits, thermocouple kits and parameter measurement kits, dso etc.
67	E&i integrated circuits lab	BACK BLOCK FIRST FLOOR	Ti-analog system alsk pro kits, trainer boards, ic tester, cros, function generators, dso, power supplies, analog trainer kit, study cards (cmrr, pll, a/d, d/a, i/v, v/i), multimeter, current source and multimeters
68	E&i microprocessor & microcontroller lab	BACK BLOCK SECOND FLOOR	Cros, function generators, 8085, 8086 lcd kits. Various study card, smps, computers, microprocessor simulator ide tools for 8085 & 8086 etc., digital trainer kit, dmm, microcontrollers kits and simulation software, digital ic tester, computers, ti based mp & mc kits
69	E&i project lab	BACK BLOCK SECOND FLOOR	Pcb prototype, orcad pspice & pcb bundle (10 user), cros, function generators, multimeters , dso, lcrq meter, solder irons, pcb making components & consumables, computers and software tool etc.
70	Programming & control system lab	BACK BLOCK SECOND FLOOR	C, c++ language and programming software tools, matlab (20 + 5 user) and computers
71	Signal systems and dsp lab	BACK BLOCK FIRST FLOOR	Computer systems, matlab software (20 + 5 user), dsp trainer kits, multiple power supply kits along with headsets etc.
72	Telemetry & communication lab	BACK BLOCK FIRST FLOOR	Vissim / comm. 8.0 suite software (10 user), cros, digital storage oscilloscope modulation and demodulation, coding-decoding kits and comm. Systems kits, computers, spectrum analyser, measurement of temp using rtd, dso, cro, function generator, telemetry and comm. Kits etc.



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73	Chemistry lab	ADMINISTRATIVE BLOCK GROUND FLOOR	1.heating oven 01 2.distilation assembly 01 3.digital spectrophotometer 02 4.digital ph meter 02 5.water wath 01 6.physical balance 11	Applied Science And Humanities



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			<p>I7 hp desktop for server (01)</p> <p>(hdd-1 tb, ram-16gb, cpu-2.93 ghz, tft- 21”)</p> <p>I5 hp desktop 280 g1 mt (01)</p> <p>(hdd-500 gb, ram-8gb, cpu-3.00 ghz, tft-21”)</p> <p>3. C2d hcl desktop (35)</p> <p>(hdd-160gb, ram-3gb, cpu-2.93 ghz, tft-18”</p> <p>4. Hp 1020 plus printer (01)</p> <p>5. Infocus lcd projector with screen (01)</p> <p>6. Network switch 24 port (02)</p> <p>1- hp 6200 microtower desktop (34)</p> <p>(ram -10 gb, hdd-500gb,cpu-3.10ghz)</p> <p>2. Hp 202 g2 mt desktop (2)</p> <p>(ram -10 gb, hdd-500 gb, cpu-3.0)</p>	
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			<p>3. Hp laserjet p1008 printer (01)</p> <p>4- network switch 24 port (02)</p>	
75	Physics lab	ADMINISTRATIVE BLOCK GROUND FLOOR	<p>1.newton ring setup (microscope)</p> <p>2.nodal slide setup</p> <p>3.specific rotation of cane sugar solution setup (polarimeter)</p> <p>4. Plane transmission grating setup (spectrometer)</p> <p>5. Carey foster bridge setup</p> <p>6. Variation of magnetic field setup</p> <p>7. Stefan law setup</p> <p>8. Calibration of ammeter</p>	



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			<p>& voltmeter by potentiometer</p> <p>9. hall effect setup with electromagnet</p> <p>10. Energy band gap setup</p> <p>11. E.c.e of copper setup (tangent galvanometer)</p> <p>12. Hysteresis loop tracer setup with cro</p> <p>13. Ballistic galvanometer setup</p> <p>14. P.n. junction setup</p> <p>15. Magnetic susceptibility of paramagnetic solution setup with electromagnet</p> <p>16. Fly wheel setup</p> <p>17. electronic balance</p>	
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76	Dbms lab	CSIT BLOCK THIRD FLOOR	<p>36 systems: hp 202 g2 core i3-4130t@2.90 ghz. Processor, 4 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse.</p> <p>01 system: dell optiplex 3060 intel core i7-8700 processor, 16 gb ram, 2 tb hdd, 19” lcd monitor, keyboard and optical mouse.</p> <p>total 37 systems</p>	Information Technology
77	Cryptography & network security lab	CSIT BLOCK THIRD FLOOR	<p>36 systems: hp 202 g2 core i3-4130t@2.90 ghz. Processor, 4 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse.</p> <p>01 system: dell optiplex 3060 intel core i7-8700 processor, 16 gb ram, 2 tb hdd, 19” lcd monitor, keyboard and optical mouse.</p> <p>total 37 systems</p>	
78	Data structure lab	CSIT BLOCK THIRD FLOOR	<p>34 systems: hp 202 g2 core i3-4130t@2.90 ghz. Processor, 2 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse</p>	



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			<p>02 systems: hp 202 g2 core i3-4130t@2.90 ghz. Processor, 4 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse</p> <p>01 system: dell optiplex 3060 intel core i7-8700 processor, 16 gb ram, 2 tb hdd, 19” lcd monitor, keyboard and optical mouse</p> <p>Total 37 systems</p>	
79	Data mining lab	CSIT BLOCK THIRD FLOOR	<p>34 systems: hp 202 g2 core i3-4130t@2.90 ghz. Processor, 2 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse</p> <p>02 systems: hp 202 g2 core i3-4130t@2.90 ghz. Processor, 4 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse</p> <p>01 system: dell optiplex 3060 intel core i7-8700 processor, 16 gb ram, 2 tb hdd, 19” lcd monitor, keyboard and optical mouse</p> <p>Total 37 systems</p>	
80	Daa lab	CSIT BLOCK THIRD FLOOR	<p>34 systems: lenovo core i3-4150@3.50 ghz. Processor, 2 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse with variable ram size</p>	



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			<p>03 systems: dell optiplex 3060 intel core i7-8700 processor, 32 gb ram, 2 tb hdd, 19" lcd monitor, keyboard and optical mouse</p> <p>Total 37 system</p>	
81	Web technology lab	CSIT BLOCK THIRD FLOOR	<p>34 systems: lenovo core i3-4150@3.50 ghz. Processor, 2 gb ram, 500 gb hdd, 18.5" lcd monitor, keyboard and optical mouse with variable ram size</p> <p>03 systems: dell optiplex 3060 intel core i7-8700 processor, 32 gb ram, 2 tb hdd, 19" lcd monitor, keyboard and optical mouse</p> <p>Total 37 system</p>	
82	Pps lab	CSIT BLOCK THIRD FLOOR	<p>30 systems: lenovo core i3-4150@ 3.50 ghz. Processor, 2 gb ram ,500 gb hdd, 18.5" lcd monitor, keyboard and optical mouse</p> <p>06 systems: hp 202 g2 core i3-4130t@2.90 ghz. Processor, 2 gb ram, 500 gb hdd, 18.5" lcd monitor, keyboard and optical mouse</p> <p>01 system: dell optiplex 3060 intel core i7-8700 processor, 16 gb ram, 2 tb hdd, 19" lcd monitor, keyboard and optical mouse</p>	



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			Total 37 system	
83	Python lab	CSIT BLOCK THIRD FLOOR	<p>30 systems: lenovo core i3-4150@ 3.50 ghz. Processor, 2 gb ram ,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse</p> <p>06 systems: hp 202 g2 core i3-4130t@2.90 ghz. Processor, 2 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse</p> <p>01 system: dell optiplex 3060 intel core i7-8700 processor, 16 gb ram, 2 tb hdd, 19” lcd monitor, keyboard and optical mouse</p> <p>Total 37 system</p>	
84	Mini project lab	CSIT BLOCK THIRD FLOOR	<p>31 systems: lenovo core i3-4150@ 3.50 ghz. Processor, 2 gb ram,500 gb hdd,18.5” lcd monitor, keyboard and optical mouse</p> <p>03 systems: hp core i7-7700@ 3.60 ghz. Processor, 32/8 gb ram,1tb hdd,18.5” lcd monitor, keyboard and optical mouse</p> <p>Total 34 system</p>	



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85	Project lab	CSIT BLOCK THIRD FLOOR	<p>31 systems: lenovo core i3-4150@ 3.50 ghz. Processor, 2 gb ram,500 gb hdd,18.5" lcd monitor, keyboard and optical mouse</p> <p>03 systems: hp core i7-7700@ 3.60 ghz. Processor, 32/8 gb ram,1tb hdd,18.5" lcd monitor, keyboard and optical mouse</p> <p>Total 34 system</p>	
86	Fluid machinery lab	NEAR LT BLOCK	<p>Pelton turbine test rig 01</p> <p>Francis turbine test rig 01</p> <p>Kaplan turbine test rig 01</p> <p>Reciprocating pump test rig 01</p> <p>Centrifugal pump test rig 01</p> <p>Hydraulic ram test rig 01</p> <p>Hydraulic jack model 01</p> <p>Boundary layer wind tunnel 01</p>	
87	Automobile lab	MECHANICAL BLOCK SECOND FLOOR	<p>Fip (diesel single cylinder) 02</p> <p>Su carburetor 01</p> <p>Fuel pump(petrol engine) 01</p> <p>Solex carburetor 01</p> <p>Electric distributor 01</p> <p>Dynamo 01</p> <p>Self-starter 01</p> <p>Two stroke scooter engine 01</p> <p>Four wheeler steering 01</p> <p>Shocker 01</p> <p>Four wheeler rear box 01</p> <p>Hydraulic breaking system 01</p> <p>Petrol car gear system 01</p>	



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			Hydraulic braking system 01 Differential gear system 01 Lubrication system of four wheeler 01	
88	Cad lab	MECHANICAL BLOCK SECOND FLOOR	Computer server (ibm) 01 Computer (hcl) 33 Printer psc 1200 01 Ups (with battery)01 Hub (24 ports)02 Pro-engineer software 01(for 500 systems) Lcd (infocus) 01	
89	Cam lab	MECHANICAL BLOCK SECOND FLOOR	Computer server (ibm) 01 Computer (hcl) 33 Printer psc 1200 01 Ups (with battery)01 Hub (24 ports)02 Pro-engineer software 01(for 500 systems) Lcd (infocus) 01	
90	Engg. Graphics lab	MECHANICAL BLOCK SECOND FLOOR	Quadrant Models (a) triangular plane (b) rectangular (c) circular models of solids (a) cone (b) cylinder (c) sphere (d) frustum of cone (e) hexagonal prism	



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			(f) pentagonal prism (g) square prism (h) hexagonal pyramid (i) pentagonal pyramid	
91	Engineering mechanics lab	MECHANICAL BLOCK SECOND FLOOR	Bending of beam apparatus Combined inclined plane & friction slide. Combined coil & belt friction apparatus Deflection of beam apparatus. Flat belt pulley Joined roof trusses on wheel Moment of inertia of fly wheel Rope pulley Screw jack simple Train of gear wheel(simple) Train of gear wheel(compound) Torsion apparatus 1 meter long vertical Warm and warm wheel apparatus	
92	Fluid mechanics lab	MECHANICAL BLOCK SECOND FLOOR	Venturi meter and orifice meter. R. K. Scientific 1 Apparatus for laminar and turbulent flow. R. K. Scientific 1 Apparatus for losses in pipe fitting. R. K. Scientific 1 Apparatus for metacentric height r. K. Scientific 1 Darcys law apparatus. R. K. Scientific 1 Impact of jet apparatus. R. K. Scientific 1 Surface tension apparatus. R. K. Scientific 1 Electrical analogy apparatus. R. K. Scientific 1 Conducting orifice & mouthpiece apparatus. R. K. Scientific 1 Rectangular notch & triangular notch. R. K. Scientific 1	



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			Bernoulli's theorem. R. K. Scientific 1	
93	Heat and mass transfer lab	MECHANICAL BLOCK SECOND FLOOR	Boiling heat transfer apparatus Thermal conductivity of metal bar. Heat transfer in forced convection. Emmisivity measurement apparatus. Parallel/counter flow heat exchanger. Pin fin apparatus. Composite wall apparatus Heat pipe demonstrator Pool boiling apparatus.	
94	Machine design lab	MECHANICAL BLOCK FIRST FLOOR	Cotter joint 1 gib & cotter joint 1 Sleeve cotter joint 1 Knuckle joint 1 Screw jack 1 Protected flanged coupling with shaft 1 Solid flanged coupling with shaft 1 Hook coupling double type 1 Oldham's coupling 1 Flexing coupling 1 Four bar mechanism 1	
95	Material science & testing lab	MECHANICAL BLOCK GROUND FLOOR	Universal testing machine ankay enterprises new delhi 01 Birinal & rockwall hardness testing machine. Asi sales pvt. Ltd. 01 Belt grinding machine metezer optical inst. 01 Disc polishing machine metezer optical inst. 01 Crystal structure models (h.c.p, b.c.c, diamond) aggarwal scientific store 01	



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			Quenching tank workshop02 Muffle furnace metezer optical inst.01 Torsion testing machine ankay enterprises new delhi 01 Metallurgical microscope metezer optical inst.01 Balancing machine metezer optical inst.01 Impact testing machine asi sales pvt. Ltd.01	
96	Measurement and metrology lab	MECHANICAL BLOCK SECOND FLOOR	Vernier caliper (digital) 0 – 300mm/12’’ mitutoyo 01 Vernier caliper 0 – 200mm mitutoyo 01 Micrometer 0 – 25mm forbes 01 Dial gauge lc0.01mm mitutoyo 01 V-block 01 Feeler gauge set atul 01 Sine bar 150mm sagar 01 Slip gauge set zeckoslovakia 01 Speedometer (dial.) Japan 01 Speedometer (digital) japan 01 Stroboscope 01 Bore gauge 18 – 35mm mitutoyo 01 Flange micrometer 25 – 50mm mitutoyo 01 Flange micrometer 50 – 75mm mitutoyo 01 Thermocouple & temperature indicator 0 – 1000deg c 01 Thread measurement apparatus 01 L v d t kit new tech roorkee 01 Strain gauge kit new tech roorkee 01 Combination set mitutoyo 01 Surface plate & stand bagson 01	



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97	Refrigeration & air conditioning lab	MECHANICAL BLOCK SECOND FLOOR	Vapour compressor refrigeration system, window type air conditioning system, hermitically sealed, reciprocating compressor model, cold storage plant trainer, multi expansion and evaporator test rig, air conditioning trainer	
98	Thermodynamics lab	MECHANICAL BLOCK SECOND FLOOR	Locomotive boiler engineering model & equipment 01 Babcock & wilcox boiler engineering model & equipment 01 Vapour compression refrigerator universal instrument co. 01 Pelton wheel engineering model & equipment 01 Francis turbine engineering model & equipment 01 Gas turbine engineering model & equipment 01 Model of two stroke petrol engine engineering model & equipment 01 Model of four stroke diesel engine engineering model & equipment 01 Steam engine model universal instrument co. 01 Two stroke scooter engine engineering model & equipment 01	
99	Tom lab	MECHANICAL BLOCK FIRST FLOOR	Epicycle gear (sun & planet). 01 Three speed and reverse gear. 01 Differential gear. 01 Helical gear. 01 Crank and slider. 01 Four bar mechanism. 01 Watt mechanism. 01 Automatic balancing m/c. 01 Quick return mechanism. 01 Motorized governor. 01 Universal governor. 01 Gyroscope 01	



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			Whirling of shaft for critical speed 01 Static & dynamic balancing machine 01 Cam follower analyses 01 Universal vibration testing machine 01	
100	Machine shop	MECHANICAL BLOCK GROUND FLOOR	Lathe machine, Drilling machine, Power hacksaw, Foundry equipment, Carpentry equipment, Smithy equipment and furnaces, Welding equipment. Vertical milling machine, Horizontal milling machine, Horizontal surface grinding machine, Tig and mig welding, Shaper machine	
101	Fitting shop	MECHANICAL BLOCK GROUND FLOOR	File smooth 10" flat File bastered 12" File half round bastered 10" 97 File half round bastered 6" 98 File round bastered 250 mm 99 File round bastered 300 mm 100 File tringular 8" Center punch C i try square Punch set figur Letter punch set Chisel flate 6" Tap set 12x1.75 mm	



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			Divider 6" Divider 8" Solid punch Oil cane Screw driver Adjustable hecksaw frame Pin vice Hecksaw frame fixed Jenny calliper bench vice 4" Bench vice 6" Cross peen hammer Pipe wrench 8", 12", 14" (each) combination set 300mm try square 8" Knife file set [10] Weighing balance machine Tap handle 1/4" 1/2" Drill machine bench Speedy moisture tester	
102	Welding shop	MECHANICAL BLOCK GROUND FLOOR	Spark lighter Shiev shaker Bench vice 6" Tig welding m/c mig weding m/c Pipe bending m/c brass wire brush File bastered 12" Open spaner Oxygen gas cylinder Acetylene cylinder Goggles	



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			Tin cutter 18" fire extinguisher 5 kg Screw driver chipping hammer Spot welding machine hand shield Pressure gauge Welding transformer Weding torch Cutting torch Cross peen hammer 800 gm Flate tong 12" Welding electrode holder chisel 1" chisel 3/4" c i.try square 6" slide wrench 12" hacksaw frame Organ cylender Co2 cylender Leather hand gloves leather apron Head shield lpg cylender 5kg Goggles plain Cylinder key	
103	Carpentry	MECHANICAL BLOCK GROUND FLOOR	File half round rasp12" Blade wooden jack plane Try square 8" Carpentry vice 8" U clamp 6"	



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			Try square engg. 6 " Saw settor iron jack plane 9" C clamp 4" pincer 6" rasp file 10 " Half round screw driver Claw hammer Wooden scale 24" tenon saw Steel scale Dove tail saw Rip saw Ratchet brace Hand drill Marking gauge Mortiose chisel Dovetail chisel Firmer chisel Cross peen hammer round rasp file 12" Side axe Bebal square	
104	Smith shop	MECHANICAL BLOCK GROUND FLOOR	ball peen hammers 800 gm. Open hearth furnace Blower water cooling tank Uble face hammer 800gm anvil with stand 100kg Swage block Fuller top &bottom	



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			Drift punch Pocker Beak horn Sledge hammer Diff. Size Flater Cross peen hammer 300 gm flate tong 15" Chisel tong 18" flate bar tong 18" pincer tong 12" Chisel clamp tong 15 " Round hollow tong 18" Flatter half tong 14" flate half tong 18" Chisel 1" chisel 1/2" Chisel 3/4" Steel scale 12" Fire extinguisher Blower Flate tong 18"	
105	Data structures lab	ADMINISTRATIVE BLOCK BASEMENT	Hp pro 3090 mt core 2 duo 2.93 ghz,2 Ram,320 gb hdd,lenovo 18.5" ; tft Monitor,kbd & mouse -30 nos Printer: canon-1 no	MCA
106	Advance programming lab	ADMINISTRATIVE BLOCK BASEMENT	Hcl-core 2 duo intel cpu 2.93 ghz/1 gb Ram/320 gb hdd/hp 18.5" ; tft Monitor/keyboard/mouse -30 nos Printer: hp- 1 no Projector: infocus-1 no	



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4.1.1 The Institution has adequate infrastructure and physical facilities for teaching-learning. viz., classrooms, laboratories, computing equipment etc.

Computing Facilities at College Level

Item Name	Numbers	Details	Qty	Purpose of use
Desktops	1421	Dell i7 3.2 Ghz ,16 GBRAM DDR4,256 GBSSD, HDD 1 TB	1	Heads of Departments,Software Development Center,Central Library
		Dell i7 3.2 Ghz ,16 GBRAM DDR4, HDD 1 TB	5	
		Dell i7 3.2 Ghz 32GBRAM DDR4, HDD 1 TB	2	
		HP i7(280 G3)RAM DDR4, HDD 1 TB	100	
		Total	108	Departmental offices,Sections,Labs,Centre of excellence,Digital Library
		HP i5 3.04 GHz RAM 8 GB, HDD 1 TBz	170	
		HP i5 3.04 GHz RAM 8 GB, HDD 1 TBz	15	
		HP i5 3.04 GHz RAM 8 GB, HDD 500 GB	35	
		HP i5 2.20 GHz RAM 4 GB, HDD 500 GB	5	
		HP i5 2.20 GHz RAM 4 GB, HDD 1TB(All in one)	2	
		HP i5 3.0 GHz RAM 2 GB, HDD 500 GB	300	
		HP i5 3.2 GHz RAM 4 GB, HDD 500 GB	30	
		Total	557	
		HP i3 2.20 GHz RAM 4 GB, HDD 1TB(all in one)	12	Departmental offices,Sections,Labs,Centre of excellence,Library
		HP i3 2.09 GHz RAM 2 GB, HDD 500 GB	75	
		Lenovo i3 3.40 GHz RAM 2 GB, HDD 500 GB	48	
		HP i3 2.09 GHz RAM 2 GB, HDD 500 GB	150	
		Lenovo i3 3.40 GHz RAM 2 GB, HDD 500 GB	150	
		HP i3 3.10 GHz RAM 2 GB, HDD 500 GB	150	
		Total	586	
		C2D	170	
		Total	170	
Laptops	131		1	Heads of departments ,Departmentals, Sections,Labs,Centre of excellence
		Dell i7 16GB RAM 1 TB HDD	3	
		Dell i5 8GB RAM 1 TB HDD	6	
		Dell workstation Mobil precision 7200 CTO RAM 32 GB, HDD 2 TB	1	
		HP 440 GHz core i7,2.50 GHz,4 GB RAM,500 Hard Disk	12	
		HP Note book 240 core i5,2.50 GHz,2 GB RAM,500 Hard Disk	10	
		Dell Core i5 3320M 2.6 Ghz,3 MB Cache,4 GB RAM, 1 TB HDD	1	
		HP Note book 450S core i5,2.50 GHz,2 GB RAM,500 Hard Disk	47	
		Apple (APMC1064)	2	
		Lenovo Intel Pentium 2.0 GHz,2 GB RAM,500 GB Hard Dis	12	
		Hp Compag 510 Intel core 2 Duo CPU, 2.00 Ghz, RAM 1GB,HDD 160 GB	26	
		Hp 550 Intel core 2 DuoCPU 1.40 Ghz, RAM 1024 MB HDD 160 GB	9	
		HCL 1.73Ghz ,RAM 512MB, HDD 80GB	1	
Servers	3 Servers and 4 Cloud Hostings	ProLiant DL380e Gen8 Rack Server	1	Authentication Server and Cloud Servers
		HP ProLiant ML 350 G6	1	
		Power-edge R720	1	
		50 GB AWS Cloud Server forSoftware Development Centre	1	
		Third Party Server Hosting college ERP on AWS	1	
		Third Party Servering Hosting College Alumni Portal AlmaConnect	1	
		100 GB IBM Cloud Server for Hosting College Website (Through third party)	1	
		Total	131	
LCD Projector	71	INFOCUS(Classrooms,Labs,Department Offices,Offices,Seminar Halls	45	Software Development Center,Centre of excellence, Deparment, Labs,Seminar Halls,offices,Computer Centers
		Hitachi	20	
		Sony	6	
		Total	71	

Scanners	15	HP N6310	1	Department offices, Sections, Library
		HP 5590	1	
		HP 2500+	12	
		HP Scanjet	1	
		Total	15	
Wi-Fi kits	206	WiFi Access Points: Cisco, Ruckus, Fortinet, link		Hostels, Departments, Admin Block, Academic Block
Wi-Fi Speed	54 Mbps	Wi-Fi Connection		
LAN Speed	100/1000 Mbps	LAN Connection		For Entire Campus
No of smart classrooms	68+19	Including Hitachi Ultrashot Throw Projector, 82" Diagonal ceramic touch board, ALL in one PC and Internet (Total 68 Rooms) Including Infocus Projectors, Projection Screen and Internet (Total 12 Rooms)		Class Room No. CL Block : CL-1 to CL-26, 401, 501, 510 LT Block : LT-1 to LT-27 ME Block : 30, 31, 32, 33, 34, 35, 36, 40, 41, 42, 43, 44, ME01 Back Block : BB-1, BB-2, BB-3, 6, 7 MCA Block: MCA 01
		Computer and green board		
Internet Bandwidth	1GBPS	Dedicated Leased Line		For Entire Campus
Number of licensed software and Details	System Software-08	System Software-8 Windows 11 Pro, Windows 10 Pro, Windows 8.1 Pro, Windows Server 2016, Windows 2012, Quick Heal Internet Security, Quick Heal EPS Business (Paper Licenses.), Quick Heal Server Edition Including Microsoft Campus Agreement Application Software-41		Labs & Offices
	Application Software-41			
Power Backup Details	45	Online APC UPS-5x40KVA, 7x20KVA, 8x10KVA, 3x8KVA, 3x6KVA, 3x5KVA, 4x3KVA, & x1KVA		Departments and Sections
Printers	136	PRINTERS (DESKJET)	20	HoD, Software Development Center, Centre of excellence, Labs Departments,, Library
		PRINTERS (LASERJET)	101	
		PRINTERS (All in one)	13	
		Zebra ID Card Printer	2	
		Total	136	
Pen Drives	31	Pendrive 16 GB HP	10	Departmental offices, Sections
		Pendrive 16 GB Kingston	5	
		Pendrive 32 GB HP	2	
		Pendrive 32 GB Kingston	2	
		Pendrive 32 GB Sandisk	5	
		Pendrive 64 GB HP	2	
		Pendrive 64 GB Sandisk	5	
		Total	31	
Routers	Nil			
Firewall	1	Fortinet 500E		Network Security
Switches	L3, L2, Including Unmanaged	L3, L2 Managed and Unmanaged Switches	138	For College Network