

**I Year B. E. (Modified R 2004)**

**PC 1X01 PHYSICS & CHEMISTRY LABORATORY**

**Requirements for a batch of 30 students**

**Physics Laboratory**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1.	Torsional Pendulum apparatus (With accessories)	5 No	6 No	
2.	Non-uniform Bending apparatus (With accessories)	5 No	6 No	
3.	Viscosity (Poiseuille's flow) apparatus (With accessories)	5 No	6 No	
4.	Lees' disc apparatus (With accessories)	5 No	6 No	
5.	Air Wedge apparatus (With traveling microscopes and accessories)	5 No	6 No	
6.	Band gap apparatus/ Post office box	5 No	5 No	
7.	Spectrometer (With grating, prism and accessories)	5 No	6 No	
8.	Diode laser (2 mW power) or He-Ne laser (2mW) (Lycopodium powder, Optical fibre Kit and accessories)	5 No	6 No	
9.	Thermo emf – potentiometer apparatus (With accessories)	5 No	6 No	
10.	Ultrasonic interferometer (With accessories)	5 No	5 No	

### Chemistry Laboratory

S.No.	Description of Equipment	Quantity required	Quantity available	Deficiency %
1.	Electronic balance	1 No.	1 No.	
2.	pH meter	4 No.	4 No.	
3.	Conductivity bridge	4 No.	4 No.	
4.	Potentiometer	4 No.	4 No.	
5.	Platinum electrodes	4 No.	4 No.	
6.	Calomel electrodes	4 No.	4 No.	
7.	Spectrophotometer	1 No.	1 No.	
8.	Flame photometer	1 No.	1 No.	
9.	Oswald viscometer	10 No.	31 No.	
10.	Glassware	Sufficient Quantity	Available	

**I Year B. E. (Modified R 2004)**

**GE 1X02 COMPUTER PROGRAMMING LABORATORY**

**Requirements for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
<b>Hardware</b>				
1.	LAN system with 36 nodes (OR) stand alone PCs	36 No.	63 No.	
2.	Printer	1 No.	3 No.	
<b>Software</b>				
1.	Operating System	Windows / Unix Clone	Available	
2.	Compiler	C compiler	Available	
3.	Application package	Office suite	Available	

**I Year B. E. (Modified R 2004)**  
**GE 1X03 Engineering Practices Laboratory**  
**Requirements for a batch of 30 students**

S.No.	Description of Equipment	Quantity required	Quantity available	Deficiency %
<b>CIVIL</b>				
1.	Assorted components for plumbing consisting of metallic pipes, plastic pipes, flexible pipes, couplings, unions, elbows, plugs and other fittings.	15 sets	15 sets	
2.	Carpentry vice (fitted to work bench)	15 No.	15 No.	
3.	Standard woodworking tools	15 sets	15 sets	
4.	Models of industrial trusses, door joints, furniture joints	5 each	5 each	
<b>MECHANICAL</b>				
1.	Arc welding transformer with cables and holders	5 No.	5 No.	
2.	Welding booth with exhaust facility	5 No.	5 No.	
3.	Welding accessories like welding shield, chipping hammer, wire brush, etc.	5 sets	5 sets	
4.	Oxygen and acetylene gas cylinders, blow pipe and other welding outfit.	2 No.	2 No.	
5.	Centre lathe	2 No.	2 No.	
6.	Hearth furnace, anvil and smithy tools	2 sets	2 sets	
7.	Moulding table, foundry tools	2 sets	2 sets	
8.	Study-purpose items: centrifugal pump, air-conditioner	One Each.	One Each.	

<b>ELECTRICAL</b>				
1.	Assorted electrical components for house wiring	15 sets	15 sets	
2.	Electrical measuring instruments	10 sets	10 sets	
3.	Study purpose items: Iron box, fan and regulator, emergency lamp	One each	One each	
<b>ELECTRONICS</b>				
1.	Soldering guns	10 No.	10 No.	
2.	Assorted electronic components for making circuits	50 No.	50 No.	
3.	Small PCBs	10 No.	10 No.	
4.	Multi Meters	10 No.	11 No.	
5.	Study purpose items: Telephone, FM radio, low-voltage power supply	2 each	2 each	

**I Year B. E. (Modified R 2004)**  
**B. E. Computer Science and Engineering**  
**EC 1X11 ELECTRON DEVICES AND CIRCUITS**  
**Requirement for a batch of 30 students**

Sl.No.	Description of Equipment	Quantity required	Quantity available	Deficiency %
1.	RPS (0-30V)	13	15	
2.	RPS (0-50V)	1	1	
3.	0 - 50 MA Ammeter	8	8	
4.	0 - 50 $\mu$ A Ammeter	2	2	
5.	0 – 1 V Voltmeter	3	20	
6.	0 – 30 V Voltmeter	8	20	
7.	0 – 10 V Voltmeter	1	20	
8.	0 – 50 V Voltmeter	1	20	
9.	5V RPS	1	5	
10.	$\pm$ 15V RPS	1	5	
11.	CRO 30 MHZ	5	8	
12.	Audio Osc.	3	3	
13.	Diode	6	50	
14.	Zener diode	5	25	
15.	Transistor (NPN + PNP)	10	10	
16.	UJT	10	10	
17.	FET	10	10	
18.	SCR	10	10	
19.	555 Timer	10	10	
20.	Passive components	Sufficient Quantity	Available	

**Faculty of Information and Communication Engineering**

**III Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS 1152 – Data structures Lab**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1.	Pentium III machines	30	40	
2.	Borland or Turbo C Software	30 Users	40	

**Faculty of Information and Communication Engineering**

**III Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1205 – Object Oriented Programming Laboratory**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1.	Software a) C++ Compiler b) J2SDK (free download)	30 Nos	40 Nos	
2.	Hardware a) PCs	30 Nos	40 Nos	



**Faculty of Information and Communication Engineering**  
**III Semester B. E. – Computer Science and Engineering (Modified R 2004)**  
**CS1206 – Digital Laboratory**  
**Requirement for a batch of 30 students**

S.No.	Description of Equipment	Quantity required	Quantity available	Deficiency %
	<b>Components</b>			
1.	ICs			
	74LS00	Minimum of 10 sets	40 Nos.	
	74LS04		40 Nos.	
	74LS08		40 Nos.	
	74LS32		40 Nos.	
	74LS86		40 Nos.	
	74LS02		40 Nos.	
	74LS76		40 Nos.	
	74LS280		40 Nos.	
	74LS85		40 Nos.	
	74LS83		40 Nos.	
	74LS11		40 Nos.	
	74LS151		40 Nos.	
	74LS153		40 Nos.	
	74LS138		40 Nos.	
	74LS180		40 Nos.	
	74LS47		40 Nos.	
	74LS93		40 Nos.	
	74LS90		40 Nos.	
	74LS157		40 Nos.	
	74LS73		40 Nos.	
	74LS74	40 Nos.		
	555	40 Nos.		
	74LS48	40 Nos.		
	74LS10	40 Nos.		
	74LS20	40 Nos.		
	7414	40 Nos.		
2.	Seven Segment Display	Min. 10 nos	40 Nos.	
3.	Bread Board	Min. 10 nos .	30 Nos.	
4.	Power Supply (0-5)	Min. 10 nos	30 Nos.	
5.	LEDS	As required	200 Nos.	
6.	Wires	As required	Available	
7.	Logic Probe	Min. 10 nos	5 nos.	
8.	Xilinx Software Navigator Tool	5 nos.	5 nos.	
9.	Model Simulator 4.6 (synthesis)	5 nos.	5 nos.	

**Faculty of Information and Communication Engineering**

**IV Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1207 – System Software Laboratory**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1.	Software a) C++ Compiler	30 Nos	40 Nos	
2.	Hardware a) PCs	30 Nos	40 Nos	

**Faculty of Information and Communication Engineering**

**IV Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1254 – Operating Systems Laboratory**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1.	Software a) C++ Compiler b) UNIX / LINUX	30 Nos	40 Nos	
2.	Hardware	1 Server and 30 PCs	1 Server and 40 PCs	

**Faculty of Information and Communication Engineering**

**IV Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1255 – Visual Programming Laboratory**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1.	Software a) VISUAL STUDIO (VC++/VB)	30	40	
2.	Hardware a) PCs	30 Nos	40 Nos	

**Faculty of Information and Communication Engineering**

**IV Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1305 – Network Lab**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1	SOFTWARE ➤ C++ Compiler ➤ J2SDK (freeware) ➤ Network simulators ➤ NS2/Glomosim/OPNET (Freeware)	30	MSDN Academic Alliance	
2	Hardware ➤ PCs	30 Nos	40 Nos.	

**Faculty of Information and Communication Engineering**

**V Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1306 – Microprocessor and Micro controllers Lab**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1.	8085 Trainer Kit	10	10	
2.	8086 Trainer Kit	10	10	
3.	8051 Trainer Kit	5	5	
4.	8255 Interfacing Kit	3	5	
5.	8279 Interfacing Kit	3	5	
6.	8251 Interfacing Kit	3	5	
7.	8253 Interfacing Kit	3	5	
8.	Personal Computers with following specifications P4, 256 MB RAM, 40 GB HDD	10	10	

**Faculty of Information and Communication Engineering**

**V Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1307 - DBMS Lab**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1	<b>FRONT END</b> <ul style="list-style-type: none"><li>➤ VISUAL STUDIO (VC++ / VB)</li><li>➤ D2K or equivalent</li></ul>	30 Users	40 Users	
2	<b>Back End</b> <ul style="list-style-type: none"><li>➤ Any relational database management system like Oracle/DB2/SYBASE/MySQL</li></ul>	1(Server) + 30 Users	Unlimited	
3	<b>Hardware</b> <ul style="list-style-type: none"><li>➤ PCs</li></ul>	30 No	40 Nos.	

**Faculty of Information and Communication Engineering**  
**V Semester B. E. Computer Science and Engineering (Modified R 2004)**

**Communication Skills Laboratory**  
**Requirement for a batch of 60 students**

S.No.	Description of Equipment	Quantity required	Quantity available	Deficiency %
1.	<b>Server</b>	1 No.	1 No.	
	o PIV system			
	o 1 GB RAM / 40 GB HDD			
	o OS: Win 2000 server			
	o Audio card with headphones (with mike)			
o JRE 1.3				
2.	<b>Client Systems</b>	60 No.	60 No.	
	o PIII or above			
	o 256 or 512 MB RAM /40 GB HDD			
	o OS: Win 2000			
	o <b>Audio card with headphones (with mike)</b>			
o JRE 1.3				
3.	<b>Softwares</b>			
	a) Interactive Teacher Control Software	Available		
	b) English Language Lab Software	Available		
	c) Career Lab software	Available		
4.	Handicam Video Camera (with video lights and mic input)	1 No.	1 No.	
5.	<b>Television - 29"</b>	1 No.	1 No.	
6.	Collar mike	1 No.	1 No.	
7.	Cordless mikes	1 No.	1 No.	
8.	Audio Mixer	1 No.	1 No.	
9.	DVD Recorder / Player	1 No.	1 No.	
10.	LCD Projector with MP3 /CD /DVD provision for audio / video facility - <b>Desirable</b>	1 No.	Available	



**Faculty of Information and Communication Engineering**

**VI Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1355 – Graphics and Multimedia Lab**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1	<b>Hardware</b> Computer with Multimedia Kit & <ul style="list-style-type: none"><li>➤ Web Camera,</li><li>➤ Speakers,</li><li>➤ Microphones,</li><li>➤ Scanner</li></ul>	30 Nos	30 Nos	
2	<b>Software</b> <ul style="list-style-type: none"><li>➤ Adobe Photoshop or equivalent</li><li>➤ Macromedia Director</li><li>➤ Macromedia Flash</li><li>➤ Macromedia Dream Weaver</li><li>➤ J2SDK (free ware)</li></ul>	30 Nos	30 Nos	

**Faculty of Information and Communication Engineering**

**VI Semester B. E. – Computer Science and Engineering (Modified R 2004)**

**CS1356 – Compiler Design Lab**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1	Software ➤ C++ Compiler ➤ UNIX / LINUX	30Nos	40Nos	
2	Hardware	1 server and 30 PCs	1 server and 40 PCs	

**Faculty of Information and Communication Engineering**

**VII Semester B.E. – Computer Science and Engineering (R 2004)**

**CS1403 – Case Tools Lab**

Requirement for a batch of 30 students

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1.	<b>CASE TOOL</b> ➤ Rational Suite/ Win Runner/Describe or equivalent	30 Nos	30 Nos	
2.	<b>LANGUAGES</b> ➤ C++ Compiler ➤ JDK ➤ JSDK(Free ware) ➤ UML	30 Nos	30 Nos	
3.	<b>FRONT END</b> ➤ VB/VC++ / D2K or equivalent	30 Nos	40 Nos	
4.	<b>Back End</b> ➤ Oracle/MySQL or equivalent	30 user license	Unlimited	
5.	<b>Hardware</b>	1 Server and 30 PCs	1 Server and 30 PCs	

**Faculty of Information and Communication Engineering**

**VII Semester B.E. – Computer Science and Engineering (R 2004)**

**CS1404 – Internet Programming Lab**

**Requirement for a batch of 30 students**

<b>S.No.</b>	<b>Description of Equipment</b>	<b>Quantity required</b>	<b>Quantity available</b>	<b>Deficiency %</b>
1	<b>Software</b> ➤ J2SDK (Freeware)	30 Nos	MSDN Academic Alliance	
2	<b>Hardware</b> ➤ WEB SERVER ➤ PCs	1 Nos 30Nos	1 Nos 30Nos	