

## APPENDIX – VII

### GUJARAT UNIVERSITY

#### B.C.A. Programme

#### Hardware and Software Requirements for Computer Laboratory in First Year

	ITEM	QUANTITY
A)	<b>HARDWARE</b>	
01.	Server with windows NT  Pentium-II/III, 400 or higher MHz, 512Kb cache, 128MB SDRAM, 9GB SCSI Hard Disk, 1 44 MB Floppy Drive, AGP Card – 4MB SDRAM, 14” SVGA Colour Monitor, 104 keys keyboard, 2 SP + 1 PP, Mouse with Pad, Mini Tower Cabinet with SMPS, 32 Bit PCI Ethernet Card (100 MBPS), 48X CD-ROM Drivem 4/8 GB DAT Drive	1
02.	Clients / Workstations  Intel Celeron CPU # 366 / 400 Higher MHz, 128 KB Cache RAM	30 lab, 3 faculty and administration
	Or	
	Pentium II CPU @ 400 higher MHz, 512 KB Cache RAM, 32 MB SDRAM, 4.3 GB IDE Harddisk, 1.44 MB Floppy Drive, AGP Card 4 Mb SDRAM, 14” SVGA Colour Monitor, 104 keys keyboard, 2 SP + 1 PP, Mouse with Pad, Mini Tower Cabinet with SMPS, 32 Bit PCI Ethernet Card (100 MBPS).	
	Or	
(A)	Clients / Workstations with Specifications as above.	10 Lab,  3 Faculty
(B)	Network Computers (NC) / Thin Clients  16 MB Base Memory Expandable to 64 Mb, 2 Simm Sockets, 1 MB VRAM Standard Expandable to 2 Mb, Ethernet 10 mbps, 101 keys keyboard, mouse with pad, monitor support (VGA/SVGA/SXGA), Video Support (Minimum 640 x 480, Maximum	

1024x768 with 1 MB VRAM), Printer Support  
(Serial and Parallel Printer)

03. 48x Multi Media Kit	10 Lab
	2 Faculty
04. 16/24 Post Ether Hub (10/100 MBPS)	2
Or	
16/24 Post Ether Switch (10/100 MBPS)	2
05. Line Matrix Printer Minimum 400 Or higher LPM (Essential for entire institution including students)	1
06. Deskjet Printer	1 Lab
07. Laser Jet Printer	1 Faculty
08. Scanner (A4 size, Colour)	1
09. Modem 6.6 KBPS or 28.8 KBPS	1 Lab
10. 5 KVA Servo Control Stabilizer	2
11. Offline UPS – 650 VA for server	1
12. CAT – 5 Cabling With Components	As per requirements
<b>B) Software (Legal Copy)</b>	
01. Windows NT Server 4.0	
02. Windows NT Workstation Ver 4.0	
Or	
Windows 95/98, for Each Client	
03 MS Office 97/2000 (Professional)	
04. Antivirus Software	
05. 'C' Compiler	
06 MS Proxy Server	
07. If thin clients are chosen then following software bundled with thin clients (NC)	

(a) Citrix device service / citrix metaframe 108 (20

users)

(b) Centralized web enabled desktop Management software for network station administration

\* Netscape navigator 3.0 web browser or equivalent

\* X-windows Server support, terminal support for VT100, Vt100 to VT200, VT300, VT320.

\* Java Capabilities through JVM, support for java application development, just in time compiler preferred.

\* Support for access to NT applications via X and ICA Protocol

\* Access to Unix and other popular operating systems

**Note:**

01. Above configuration is for the first year BCA.
02. For subsequent years, the configuration and software is to be added/upgraded, as per the university guidelines. Voltage stabilizer, the offline UPS and any other power conditioning device may be checked with the respective vendor.
03. Minimum 2 dial up connections for internet should provided in the lab.