## APPENDIX – VII

### GUJARAT UNIVERSITY

#### B.C.A. Programme

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

<table>
<thead>
<tr>
<th>ITEM</th>
<th>QUANTITY</th>
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<tbody>
<tr>
<td><strong>A) HARDWARE</strong></td>
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<tr>
<td>01. Server with windows NT</td>
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<tr>
<td>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</td>
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<tr>
<td>02. Clients / Workstations</td>
<td>30 lab, 3 faculty administration</td>
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<tr>
<td>Intel Celeron CPU # 366 / 400 Higher MHz, 128 KB Cache RAM</td>
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<td>Or</td>
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<tr>
<td>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).</td>
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<td>Or</td>
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<tr>
<td>(A) Clients / Workstations with Specifications as above.</td>
<td>10 Lab, 3 Faculty</td>
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<tr>
<td>(B) Network Computers (NC) / Thin Clients</td>
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<tr>
<td>16 MB Base Memory Expandable to 64 Mb, 2 Simm Socektts, 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</td>
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</table>
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)
    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) Software (Legal Copy)

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
(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.