SARDAR PATEL UNIVERSITY
Programme & Subject: M.Sc – Information Technology (Integrated)
Semester: II
Syllabus with Effect from: June-2012

Paper Code: PS02EIIT02	Total Credit: 2
Title Of Paper: Introduction to Computer Hardware	

Unit	Description in detail	Weightage (%)
I	**Introduction to PC** **Types of PC** Mainframe Mini Computers Work Stations Personal Computers Laptops Tablet PC PDA Servers **Systems Modules** Main board Components Rom Clips with BIOS CMOS L2 cache RAM Chipsets with I/O control bus Processors Power Supply Memory Volatile Memory: SRAM, DRAM Non Volatile Memory: Hard Disk, Floppy Disk, Magnetic Taps, Optical Disks Monitors: EGA, CGA,VGA, XGA, CRT, LCD, LED.	25%
II	**Storage Media** **Common Devices** BIOS CMOS Pin Connectors DB-9, DB-25, RJ-11, RJ-45, BNC, PS/2, USB Primary Magnetic storage Diskettes Hard disks (both fixed and removable) High capacity floppy disks Disk cartridges Magnetic tape. Primary Optical storage Compact Disk Read OnlyMemory (CD ROM) Digital Video Disk Read OnlyMemory (DVD ROM) CD Recordable (CD R) CD Rewritable (CD RW) Photo CD	25%

III	**I/O Units (Expansion Cards and Cables)** Cables Straight Pair Twisted Pair Fiber Optics Co-axial Cable Sound Card Video Card Network Card (LAN Card) TV Tuner Card Graphics Card Physics Cards Modems		25%
IV	**Softwares** Different Types of Software System Software Application Software Programming Software Types of OS Real Time Multi User vs. Single User Multitasking Distributed Embedded		25%

Basic Text & Reference Books:-

- ➢ A Complete Illustrated Guide to the PC Hardware
- ➢ Data Communications and Networking –Behrouz A. Forouzan
- ➢ A+ Certification – Michael Pastore
- ➢ Modern Operating System - Andrew s Tanenbaum