SARDAR PATEL UNIVERSITY
Programme & Subject: Master of E-Business (M.Eb)
Semester: I
Syllabus with Effect from: June-2010

Paper Code: PM01EMEB04	Total Credit: 4
Title Of Paper: Introduction to Computer Technology	

Unit	Description in Detail	Weightage (%)
I	**Introduction:** Introduction to Computers: The Parts of a Computer System: Hardware, Software, Users, & Data; Computer Anatomy: Processor, Memory, Input and Output Devices, & Storage. How Computer Measure & Transfer Data: The Difference between Data and Information, Representation of Data, Bits & Bytes, and Text Codes. The Motherboard and CPU: Major Motherboard Components Explanation, The CPU: Interconnection of Units, Registers, Control Unit, ALU, The Machine Cycles, CPU Sockets and Slots, Microcomputer Processors Manufacturers and their different Processors, CISC Vs RISC Processors, Parallel Processing, Serial & Parallel Ports. Power Supply: Function & Operation, Connectors, Specifications, Power-Use Calculation, Power Management, Power Protection Systems. BIOS: Elements of Modern BIOS, BIOS Failures, Installing New BIOS	25%
II	**Input & Output Devices:** Input Devices: The Keyboard, How the Computer accepts input from the keyboard, the mouse, Variants of Mouse, Alternative Devices: devices for hand, Optical Input Devices, Audiovisual Input Devices Output Devices: Monitors, The video controller, Overview of Printers, Dot Matrix Printers, Ink Jet Printers, Laser Printers, Other high-quality Printers	25%
III	**Memory & Secondary Storage:** Primary Memory: ROM and all its types, RAM and all its types, Logical MAP of RAM, Cache Memory: L1 & L2 Cache, Memory Speed, and Memory Measurement Unit Secondary Storage: Magnetic Storage Devices, How data is stored on a disk, How data is organized on a Magnetic Disk, How OS finds data on a disk, Floppy Diskettes, Hard Disks, Removable high-capacity magnetic disks, tape drives, pc cards, optical storage devices: CD-ROM, DVD-ROM	25%
IV	**Fundamentals of Information Systems** The purpose of Information Systems – Types of Information Systems – Building Information Systems – The Evolution of Programming Languages – Categories of Programming Languages – Basic Hardware Troubleshooting – PC Diagnostics & Maintenance – The Hardware Boot Process	25%
Practical		
Microsoft Office 2007 Applications: Microsoft Word, Microsoft Excel, & Microsoft PowerPoint.		

Basic Text & Reference Books:-

- Introduction to Computers: By Peter Norton
- Troubleshooting and Repairing Your PC: By Corey Sandler
- Upgrading and Repairing PCs: By Scott Muller
- PC Upgrade and Repair Bible: By Barry Press and Marika Press