GUJARAT TECHNOLOGICAL UNIVERSITY

Master of Science (Integrated-Information Technology)
Semester: II
Subject Name: Introduction of Computer Hardware & Peripherals
Subject Code: 1320505

Teaching and Examination Scheme:

Teaching Scheme			Credits	Examination Marks				Total Marks
				Theory Marks		Practical Marks		
L	T	P	C	ESE(E)	PA (M)	PA (V)	PA (I)	
2	0	4	4	70	30	30	20	150

Content:

Sr. No.	Content	Teaching Hours	Module Weightage(%)
1.	Computer Basic, Various types of computer, Computer hardware, all ports Software's Hardware, Introduction of operating systems Introduction of windows vista, Introduction of Windows 7, Introduction of Windows XP.	**06**	**22**
2.	Hardware Troubleshooting Basic, Maintenance journal, working through the problem, Diagnostic software, Diagnostic hardware, Tool kit, System tools, Control panel ,Devices, Keyboard, Mouse, Monitor, Printer, Optical media, Hard disk drive, Floppy disk drive, Network troubleshooting.	**07**	**25**
3.	Microprocessor, CISC / RISC, Desktop microprocessor, Pentium series (P1 to Core i7), AMD series, Problem with microprocessor Motherboard , Components of motherboard, Form factor, Power & SMPS, BIOS setup, Beep code ,Memory DRAM, SRAM, CHIP & Modules, Troubleshooting Memory.	**09**	**29**
4.	Basic Data Recovery, Partitions, Master boot record, FAT/ NTFS, Restore Data, Building Pc, Equipment, Assembling Software application, I/O interfaces, I/O devices, Processing, Testing	**07**	**25**

Reference Books:

1. Comdex Hardware and Networking Course Kit By Vikas Gupta,published by dreamtech press Edition 2010
2. The Complete Reference PC Hardware, By craig zacker, John Rourke, Published by TATA McGraw Hill
3. Upgrading and Repairing PCs, By Scott Muller, Published by QUE, 22nd edition.
4. Upgrading and Fixing PCS, by Andy Rathbone, published by for Dummies, 7th edition.
5. Windows 10 For Dummies, by Andy Rathbone, published by For Dummies; 4th edition

Course Outcome:

1. Understand basic concepts & structure of Computer Hardware & Networking Components.
2. Understand and troubleshoot the existing hardware and configuration of the computer, OS & peripherals through various system tools
3. Analyze and troubleshoot hardware, BIOS, memory
4. Apply concepts of data recovery and restoration on partitions and logical disks