SARDAR PATEL UNIVERSITY

Programme: B.Sc Semester: III

Syllabus with effect from: June-2012

Paper Code: US03EELE01	Total Credit: 2
Title of Paper: Fundamentals of Computer Hardware	Total Credit: 2

Unit	Description in detail	Weightage (%)
I	System Concepts Primary Storage Unit	
	System concept: Input unit, Output unit, Storage unit, Arithmetic and logic	
	unit, control unit, central processing unit	
	Computers for individual: desktop computer, workstations, notebook, tablet	
	computers, handheld computers, smart phones,	
	Computers for organisations: network servers, mainframe computer,	
	supercomputer,	
	Primary Storage unit: storage locations and addresses, storage capacity,	
	fixed and variable word length storage, RAM, ROM, PROM, EPROM,	
	CACHE memory, Registers	
II	Secondary Storage Devices:	
	Sequential and direct access devices, Magnetic storage devices: magnetic	
	tape, magnetic disc, hard disk, removable disk, diskettes, Optical storage	
	devices: CDROM, DVDROM, Recordable optical technology,Flash	
TTT	memory, smart memory.	
III	Input Devices Very board, Mouse, Devices for the hand held to Pon, Touch server, German	
	Key board, Mouse, Devices for the hand held: Pen, Touch screen, Game controller,	
	Optical input devices: Barcode reader, magnetic – ink character	
	reader(MICR), Scanner, Image scanner, Optical character reader, Audio	
	input devices: microphone, other audio input devices, Video input devices:	
	digital camera.	
IV	Output Devices	
	Monitors: CRT monitors, flat panel monitors – LCD and other types of	
	monitors,	
	Comparing monitors: Size, Resolution, Refresh rate, Dot pitch	
	Printers: Types of printers: impact an nonimpact printer, Dot matrix printer,	
	Inkjet printer, Laser printer,	
	Comparisons of printer: image quality, speed, initial cost, cost of operation,	
	Photo printer, Thermal wax printer, dye –sub printer, Plotters	

Basic Text & Reference Books:

- ➤ Computer Fundamentals By P.K. Sinha (BPB Publications)
- > Introduction To Computers By Peter Norton (sixth edition) (The McGraw–Hill Companies)

