

SARDAR PATEL UNIVERSITY
Programme & Subject: B.Sc
Semester: IV
Syllabus with Effect from: November - 2012

Paper Code: US04EELE01	Total Credit: 2
Title Of Paper: Fundamentals of Computer Hardware	

Unit	Description in detail	Weightage (%)
I	Computer Software What is software, Relationship between hardware and software, Types of software, Machine language, Assembly language, Assembler, High level language, Compiler, Interpreter, Firmware	25%
II	Operating System: Operating systems yesterday and today, PC Operating system: DOS, Windows NT workstation, Windows 9X, Windows XP, Network Operating system, Windows NT server, Embedded Operating system	25%
III	Networking Use of network: Simultaneous access, Shared peripheral devices, Personal communications, Easier data backup, Common types of Network: LAN, WAN, Hybrid Network, CANs, MANs, HANs, Intranets and Extranets, Network Topologies, Network Media – Wire Based media and Wireless media, Protocols.	25%
IV	Data Communications & Internet Modems, Digital data connections, Broadband connections, DSL technology, Cable Modem Connections. ATM, Wireless Network, What is internet? Connecting to the internet through – wires, Dial – up connections, High Speed Broadband connections, ISDN services, DSL services, Cable modem services	25%

Basic Text & Reference Books:-

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

