Annexure C

CBCE-1-01T: Computer Fundamentals

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits: 4
Pass Percentage: 40%

Course: Computer Fundamentals	
Course Code: CBCE-1-01T	
Course Outcomes (COs) After the completion of this course, the students will be able to:	
CO1	Learn the basic knowledge of computer hardware and software
CO2	Get basic knowledge of number system
CO3	Gain knowledge of computer languages such as machine language, assembly language and high level language
CO4	Acquire the general acknowledge about operating systems and computer memories
CO5	Learn the basics of computer networks

Detailed Contents:

Module No.	Module Name	Module Contents
Unit 1	**Introduction of Computer**	Characteristics of the Computer, Block diagram of a computer, *Input Devices:* Keyboard, Mouse, Trackball, Space ball, Joystick, Light pen, Touch screen, Digitizer, Data Glove, Scanner, Speech Recognition Devices, Optical Recognition Devices: OMR, OBR, OCR, MICR, Video Cameras, *Output Devices:* Monitors, Printers and its types, Plotters and its types, Speakers, Multimedia Projector.
Module II	**Computer Languages**	Machine language, assembly language, high level language, *Language Translators:* Compiler, Interpreter, and Assembler. *Software:* Types of Software: System Software, Application Software, and Firmware.
Module III	**Operating System and Memory**	Functions of Operating System, Types of Operating System, *Memories:* Memory Hierarchy, Memory Types: Magnetic core, RAM, ROM, Secondary, Cache, Overview of storage devices: floppy disk, hard disk, compact disk, tape. Virus, Antivirus.
Module IV	**Computer Networks**	Components of data communication, modes of communication, standards and organizations,

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		Network Classification, Network Topologies; Network Types, Transmission media, network protocol; layered network architecture. Basic of Computer networks: LAN, MAN, WAN.

Books

1. Pradeep K., Sinha, "Computer Fundamentals: Concepts, Systems & Applications", BPB
2. Rajaraman V, "Fundamentals of Computers", PHI
3. RS Salaria, "Computer Fundamentals", Kanna Publication, 1st Ed., 2017
4. E Balagurusamy, "Fundamentals of Computers", Mc Graw Hill, 2012
5. Glenn Brookshear, "Computer Science: An Overview", Pearson, 2012

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