Punyashlok Ahilyadevi Holkar Solapur University, Solapur

NAAC Accredited-2022
'B+' Grade (CGPA 2.96)

Name of the Faculty: Science & Technology

CHOICE BASED CREDIT SYSTEM

Syllabus: Computer Science (Minor)

Name of the Course: B.Sc. I Sem. I & II (Liberal Science)

(Syllabus to be implemented from June 2022)

Punyashlok Ahilyadevi Holkar Solapur University, Solapur

Syllabus for Minor paper selection- 2022

B.Sc. I Year (Liberal Science) Semester-I

Course Code:	Total Contact Hours: 30 Hrs
Course Title: Fundamentals of Computers	Total Mark: 50 (30 Lectures)
Teaching Scheme: Theory 2.5 Lect/Week	Total Credits: 02

Unit No.	Description	Number of Lectures

Unit-I	**Computer Fundamentals:**
	• Definition of Computer
	• Characteristics of Computer
	• Concepts of Hardware and Software
	• Types of Software
	• Evolution of computer and Generations
	• Classification and types of computers
	• Limitations of computers
	• Applications of computers in various fields
	• Block diagram of computer:
	• Basic Units of Computer:
	  ➢ Input Unit
	  ➢ CPU-ALU
	  ➢ Memory Unit and Control Unit
	  ➢ Output Unit
	
	Computer Peripherals:
	• Computer Memory
	• Memory concepts
	• Semiconductor memory
	• Magnetic memory-RAM, ROM, EPROM, EEPROM
	• Secondary Storage Devices-
	  ➢ Magnetic Tape
	  ➢ Magnetic Disk (Floppy disk and Hard Disk)
	  ➢ Compact Disk
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Unit-II	**Introduction to Operating System**
	• Definition of Operating System
	• Types of Operating System
	   ➢ Disk Operating System (DOS)
	   ➢ Windows Operating System
	   ➢ Linux Operating System
	
	Computer Communication and Networks:
	• Concepts of Computer communication
	• Communication components
	• Computer network
	• Network Topologies
	• Communication Channels
	• Protocols
	• LAN, WAN, MAN
	• Introduction to Internet
	• Overview of Modem, Bluetooth and router devices
	• Email (creating and handling email account)
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Practical:
1. Practical's on DOS commands (DIR, MD, CD, RD, DEL, REN, COPY CON, TYPE, FORMAT, VERSION, TIME, DATE, CLS)
2. Practical's on Windows Operating System (File and Directory operations: creating, copying, moving, renaming, deleting etc)
3. Practical on Internet: Creating and handling an email account, different browsers, search engines like Google.com

Books Recommended:
1) Computer Fundamentals- P.K. Sinha
2) Computer Fundamentals- V. Rajaraman
3) Computer Today- Donaid N. Sanders.