

Part A: Introduction			
Program: Certificate Course		Class: B.Sc.-IT I Semester	Year: 2023
		Session: 2023-24	
1	Course Code	ITDSC-IT	
2	Course Title	Fundamental of Information Technology	
3	Course Type	Discipline Specific Course (DSC)	
4	Pre-requisite(if any)	As per Govt. Norms / Institutional Scheme	
5	Course Learning Outcomes (CLO)	After successfully completing this course, the students will be able to: <ul style="list-style-type: none"> • Understand the concept of input and output devices and the basic terminologies used in the computer. • Understand the Programming, flow chart symbols, complete and correct flow chart algorithms, create a program based on a flow chart. • Identify categories of programs, system software and applications. Organize and work with files and folders • Utilize the Internet Web resources and evaluate on-line e-business system. • Solve common business problems using appropriate Information Technology applications and systems. 	
6	Credit Values	04 (03 Theory + 01 Practical)	
7	Total Marks	Max. Marks: 100 = 80 Theory + 20 Internal Assessment	Min Passing Marks: 40

Part B: Content of the Course		
Total number of Teaching-Learning – Hours-45		
Unit	Topics (Course Contents)	Hours
I	Basics of Computer: Generations and Technical Evolution Computer, Computer and Types of Computers, Latest input and output devices, CPU and its components, Units of computer memory measurements, Hierarchy of computer Memory, Primary and secondary memory, Types of Computer Memory, Storage devices, memory module, types of memory modules.	11
II	Computer Software, Operating System, DOS: Software and its need, Types of Software's: system software, application software, utility software, firmware, Operating System, Services and Functions of operating system, Interpreter, Assembler, Compiler and phases of a compiler, Debugger, Loader, and Linker; Booting process, Types of Booting (with BIOS & POST).	11
III	Program Planning & Computer Languages: Planning the computer program: algorithm, representation of algorithms, flowchart, flowchart symbols, advantages and limitations of flowchart, Pseudo code: definition, advantages and limitations of pseudo code. Introduction and evolution of programming language, Types of programming language, characteristics of a good programming language, Procedure oriented language and object-oriented language.	11
IV	Internet & Application: Internet: basic services of internet, uses of internet, internet Web Browser and search Engine; World Wide Web. Internet security: Internet security techniques. Latest IT trends: Artificial intelligence, IoT, Data mining, Cloud computing, Machine learning and its application.	12