

B.Sc. Biotechnology: Semester-I BST-104 :Computer Fundamental	
Teaching Scheme Lectures: 3 hrs/Week Tutorials: 1 hr/Week Credits: 4	Examination Scheme Class Test -12Marks Teachers Assessment - 6 Marks Attendance – 12 Marks End Semester Exam – 70 marks

Prerequisite: - General knowledge of Computer fundamentals of intermediate standard

Course Objectives:

1. To give an overview of computer science and its significance
2. To give basic knowledge Evolution of computers
3. To have an overview of Computer peripherals input/output devices
4. To explain about the Basic Gates and Number Systems
5. Introduction to MS-OFFICE-2003, word 2003
6. To explain the Excel-2003, Editing, working Retrieval, Important functions

Course Outcomes:

After completing the course, students will be able to:

- CO1: Understand various applications of computing
- CO2: Idea about MS Word and excel.
- CO3: Identify different types of Basic Gates used in computers.
- CO4: Database system concepts, Data models schema and instance
- CO5: Working on Query and use of database

Head

Department of Biotechnology
Invertis University, Bareilly (U.P.)

Dean

Faculty of Science
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Registrar
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Detailed Syllabus

UNIT-1 Digital Computer

Digital Computer: Introduction, Basic diagram, Evolution of computers, Generation of Computers, Computer peripherals input/output devices. Computer classification, Microcomputer, Minicomputer, Main frame computer, Super computer, Types of printers-Dot matrix, Inkjet, Laser.

Basic Gates and Number Systems: Basic Gates - AND gate OR gate OR NAND gate, NOR gate, EX-OR gates, NOT gate logic diagram of gates, Number Systems - Binary number, Decimal, Hexadecimal, Octal, BCD conversion of number systems.

UNIT-2 Introduction to MS-OFFICE-2003

Introduction to MS-OFFICE-2003, word 2003 Document creation, Editing, formatting table handling, Excel-2003, Editing, working Retrieval, Important functions, short cut keys used in EXCEL.

MS-Power point 2003-Job Profile, Elements of Power point , ways of delivering Presentation, concept of Four P's (Planning, Preparation, Practice and Presentation) ways of handling presentations e.g. creating, saving slides show controls, Adding formatting, animation and multimedia effects.

UNIT-3 Database system concepts

Database system concepts, Data models schema and instance, Database language, Introduction to MS-Access 2003, main components of Access tables, Queries, Reports, Forms table handling, working on Query and use of database.

History of Internet, equipment required for Internet connection, browser (Internet Explorer, Mozilla Firefox, Google Chrome)

Text and Reference Books

1. Sinha, P.K., Computer Fundamentals, BPB Publications.
2. Raja Raman, V, Computer Programming in 'C', PHI Publication.
3. Hunt N and Shelley J. "Computers and Common Sense" Prentice Hall of India.
4. Alexis Leon, "Introduction to Computers" Vikas Publishing House




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