

LESSON PLAN

Department of Computer Science	
Session 2025-26 (ODD SEM)	Class: BA/BCOM (Semester-1)
Subject : MDC (Fundamentals Of Computer Science)	Faculty Name: Dr. Gian Devi/ Dr. Devika chhachhiya

August

Introduction to Computers: Definition of Computers, History and Generations of Computers, Characteristics of computer, Classification of Computers. Fundamental Block diagram of Computer: CPU, Input & Output (Class test 1)

September

Software: Definition of Software, Types of Software-System software, Application software and Utility software. Types of Computer Languages, Assemblers, Interpreters, Compiler. (Assignment 1)

October

Introduction to Operating Systems: Types of Operating System, Functions of Operating System. Windows: Introduction to Windows, Date and Time setting, Working with files and folders-creating, deleting, opening, finding, copying, moving, and renaming. (Class test 2)

November

Networking: Concept, Basic Elements of a Communication System, Data Transmission Media, LAN, MAN, WAN. Introduction of Internet and WWW, Basic working of a Web Browser, Introduction to popular web browsers.

Assignment 2, Revision, important topics discussion and preparation of exam

Department of Computer Science	
Session: 2025-26 (ODD SEM)	Class: BA (Semester-1)
Subject : SEC (PYTHON PROGRAMMING)	Faculty Name: Dr. Gian Devi

August

Python Interpreter, Python shell, Identifiers, keywords, literals, strings, different types of operators in python, Input & output statements, control statements, branching statements, looping and conditional statements

Class test 1

September

Strings manipulations, other functions in strings, string module, converting strings to numbers, list, tuples, sets, Dictionaries, Basic list operators, inserting and removing an element.

Assignment 2

October

Array in python, functions, complexity, arguments and return values, formal arguments, named arguments, recursive functions, scope and global statements, math modules and random modules.

Class test 1

November

Exception handling, except clause, user defined exceptions, file handling, manipulations files and directories, graphics.

Assignment 2, Revision, important topics discussion and preparation of exam

Department of Computer Science	
Session: 2025-26 (ODD SEM)	Class: BA (Semester-1)
Subject : MIC (Introduction to computer science)	Faculty Name: Dr. Devika Chhachhiya

August

Computer Fundamentals: Evolution of Computers through generations, Characteristics of Computers, Strengths and Limitations of Computers, Classification of Computers, Functional Components of a Computer System, Applications of computers in Various Fields; Software, Types of Software: System software. Hardware components of a computer system (Class test1)

September

Storage devices: Types of Storage devices, Magnetic tape, Hard disk, Optical disk, Flash memory I/O Devices: I/O Ports, Device Controller, Device Driver Input Devices: Output Devices (Assignment 1)

October

Planning the Computer Program: Techniques of Problem Solving, Program, Types of Program Errors, Debugging a Program, Testing Program, Documentation. Algorithm, Characteristics of Good Algorithm, Pseudo Code, Flowchart, (DFDs), Decision Tables and Decision Trees. (Class test 2)

November

Developing Algorithms: Time & space complexity of algorithms, Big-0 Notation, Drawing Flowcharts and writing algorithms in pseudo code for basic problems. Sorting Algorithms: bubble sort, selection sort, insertion sort, quick sort. Searching Algorithms — linear search, binary search. Merging Algorithm (Assignment 2)

Department of Computer Science	
Session: 2025-26 (ODD SEM)	Class: BA/BCOM (Semester-3)
Subject : MDC (Programming With Python)	Faculty Name : Dr. Gian Devi/ Dr. Devika chhachhiya

August

Python Interpreter, Python shell, Identifiers, keywords, literals, strings, different types of operators in python, Input & output statements, control statements, branching statements, looping and conditional statements

Class test 1

September

Strings manipulations, other functions in strings, string module, converting strings to numbers, list, tuples, sets, Dictionaries, Basic list operators, inserting and removing an element

Assignment 1

October

Array in python, functions, complexity, arguments and return values, formal arguments, named arguments, recursive functions, scope and global statements, math modules and random modules.

Class test 2

November

Exception handling, except clause, user defined exceptions, file handling, manipulations files and directories, graphics.

Assignment 2

Department of Computer Science	
Session: 2025-26 (ODD SEM)	Class: BA/BCOM (Semester-3)
Subject : MIC (Information Security)	Faculty Name : Dr. Devika chhachhiya

August

Introduction: History of Information Security, CNSS Security Model, Components of Information Security, Approaches to Information Security and Implementation, Security Systems Development Life Cycle, Security Professionals and the Organization.

Class test 1

September

The Need for Security: Introduction, Business Needs First: Threats and Attacks, Legal, Ethical, and Professional Issues in Information Security, Law and Ethics in Information Security: Relevant Laws, International Laws and Legal Bodies.

Assignment 1

October

Risk Management: An Overview of Risk Management, Risk Identification, Risk Assessment, Risk Control Strategies: Selecting a Risk Control Strategy, Quantitative versus Qualitative Risk Control Practices.

Class test 2

November

Planning for Security — Introduction to Information Security Planning and Governance, Information Security Policy, Standards, and Practices, Security Education, Training, and Awareness Program.

Assignment 2

Department of Computer Science	
Session: 2025-26 (ODD SEM)	Class: BA/BCOM (Semester-3)
Subject : VAC (ENVIRONMENTAL STUDIES)	Faculty Name : Dr. Gian Devi / sDr. Devika chhachhiya

August

Basic concepts: Environment - definition and significance; habitat and ecological niche; biosphere; atmosphere; lithosphere and hydrosphere. Factors affecting environment: Abiotic factors — light, temperature, humidity, topography; Biotic factors — microorganisms, animals, plants and humans. Sources of energy: Renewable and non-renewable sources.

Assignment 1

September

Ecosystem: Definition, types **and** functions; energy flow — food chains, food webs, trophic structure; concept of productivity. Biogeochemical cycles: Hydrological, gaseous and sedimentary cycles. Biological invasion and its impact on environment.

Class test1

October

Concept of population, population density, natality, mortality, carrying capacity, growth forms. Human population: National and international concerns, Indian efforts to control the growing population; Sustainable development.

Assignment 2

November

Environmental pollution: Air pollution; Water pollution; **Soil** pollution; Noise pollution; Plastic pollution and Marine pollution. Solid waste management; Ozone depletion; Global warming and climate change.

Class test2