

Lesson Plan 2025-26(As per NEP 2020)

Name of the Assistant Professor: Dr. Vinti Parmar

Class: B.A MDC 3rd Sem.

Subject: Problem Solving Through C

Week		Topics
1	Day 1	Basic Concepts of Programming, Algorithm & Flowchart
	Day 2	Structured Programming Concepts
	Day 3	Top Down & Bottom Up Approach
2	Day 1	Searching & Sorting
	Day 2	Test
	Day 3	Basics of C Language
3	Day 1	Data Types & Operators
	Day 2	Keywords & Variables
	Day 3	Input/ Output Statements
4	Day 1	Type Conversion & Type Casting
	Day 2	Doubt Class
	Day 3	Test
5	Day 1	Basics of Decision Statements
	Day 2	if and if else statements
	Day 3	Nested if else statement
6	Day 1	If else ladder
	Day 2	Switch statement
	Day 3	Go to and break statement
7	Day 1	Format Specifiers
	Day 2	For loop
	Day 3	While loop
8	Day 1	Do while loop

	Day 2	Exit and continue statement
	Day 3	Doubt Class
9	Day 1	Test
	Day 2	Function Basics
	Day 3	Call by Value and Call by Reference
10	Day 1	Function Signature
	Day 2	Recursion
	Day 3	Basics of Array
11	Day 1	One Dimensional and Two Dimensional Array
	Day 2	Array as Matrix
	Day 3	Strings
12	Day 1	Various functions on strings
	Day 2	Structure and Union
	Day 3	Various Input and Output Functions
13	Day 1	Basics of File Handling
	Day 2	Reading from File
	Day 3	Writing from file
14	Day 1	Standard Input / Output Text File
	Day 2	Header Files
	Day 3	Basics of C Graphics
15	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class

Lesson Plan 2025-26(As Per NEP 2020)

Name of the Assistant Professor: Dr. Vinti Parmar

Class: B.Sc (Computer Science) 3rd Sem.

Subject: Data Structure and Algorithm

Week		Topics
1	Day 1	Basic Concepts of Data Structures
	Day 2	Data Structure Operations
	Day 3	Application of Data Structure
2	Day 1	Types of Data Structures
	Day 2	Test
	Day 3	Algorithm Concepts
3	Day 1	String concepts
	Day 2	Pattern Matching Algorithm
	Day 3	Arrays
4	Day 1	Types of Array
	Day 2	Doubt Class
	Day 3	Test
5	Day 1	Linked List
	Day 2	Operations on Linked List
	Day 3	Circular Linked List
6	Day 1	Two Way Linked List
	Day 2	Application of linked list
	Day 3	Stacks
7	Day 1	Operations on Stack
	Day 2	Application of Stacks
	Day 3	Reverse Polish Notation
8	Day 1	Recursion
	Day 2	Basic concepts of Queues

	Day 3	Doubt Class
9	Day 1	Test
	Day 2	Array Representation of Stack
	Day 3	Linked representation of stack
10	Day 1	Operations on Queues
	Day 2	Dequeues
	Day 3	Priority Queues
11	Day 1	Application of queues
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class
12	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class
13	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class
14	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class
15	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class

Lesson Plan 2025-26 (According to Old Scheme)

Name of the Assistant Professor: Dr. Vinti Parmar

Class: B.Sc (Computer Science) 5th Sem.

Subject: DBMS

Week		Topics
1	Day 1	Basic Concepts – Data, Information, Records and files.
	Day 2	Traditional file – based Systems-File Based Approach-Limitations of File Based Approach
	Day 3	Block Diagram along its components and characteristics
2	Day 1	Database Approach-Characteristics of Database Approach, Database Management System (DBMS),
	Day 2	Components of DBMS Environment, DBMS Functions, Advantages and Disadvantages of DBMS.
	Day 3	DBMS Functions, Advantages and Disadvantages of DBMS.
3	Day 1	Classification of Database Management System.
	Day 2	Roles in the Database Environment - Data and Database Administrator
	Day 3	Centralized and Client Server architecture to DBMS
4	Day 1	Database System Architecture – Three Levels of Architecture, External,
	Day 2	Conceptual and Internal Levels, Schemas,
	Day 3	Test
5	Day 1	Mappings and Instances. Data Independence – Logical
	Day 2	Data Rate and Bandwidth, Capacity, Baud Rate;
	Day 3	Data Models: Records- based Data Models, Object-based Data Models,
6	Day 1	Physical Data Models and Conceptual Modeling.
	Day 2	Guided and Wireless Transmission Media;
	Day 3	Test
7	Day 1	Hierarchical, network and relational model
	Day 2	Entity-Relationship Model – Entity Types, Entity Sets, Attributes and keys,
	Day 3	Relationship, relationship sets, Role name & recursive relationship and structural constraints
8	Day 1	Conceptual design using E-R Diagrams.
	Day 2	Relational Data Model:-Introduction,
	Day 3	Properties of Relations, Keys, Integrity Constraints over Relations, Views
9	Day 1	FDDI, Wireless LANs.
	Day 2	Functional Dependencies,
	Day 3	Normalization: 1 st to 3 rd Normal Form, BCNF,

10	Day 1	Lossless Join and Dependency preserving decomposition.
	Day 2	SQL: Types & components of SQL, Data Definition and data types, Data definition commands, Data manipulation commands,
	Day 3	Data Control Commands Specifying Constraints(Primary Constraint,. Foreign key, Unique, Not Null) in SQL, Schema,
11	Day 1	Schema, Basic Queries in SQL, Insert, Delete and Update operations.
	Day 2	Inbuilt Date, String functions. Commit, Rollback, Save points
	Day 3	Views: Introduction, Advantages of creating views
12	Day 1	Features, Destroying/ Altering table & Views.
	Day 2	Assignment
	Day 3	Test
13	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class
14	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Test
15	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class

Lesson Plan 2025-26(As per NEP 2020)

Name of the Assistant Professor: Dr. Vinti Parmar

Class: B.A MDC First Sem. **Subject:** Fundamentals of Computer Science

Week		Topics
1	Day 1	Historical evolution of computers,
	Day 2	Classification of computers,
	Day 3	Block Diagram along its components and characteristics
2	Day 1	Usefulness of Computers.
	Day 2	Human being Vs computer, Computer as a tool,
	Day 3	Applications of computers.
3	Day 1	Generations of computer
	Day 2	Strengths and limitations of computer
	Day 3	Types of software
4	Day 1	Input/Output Devices: Keyboards, mouse, joysticks, trackballs, digitizer,
	Day 2	voice-recognition, optical-recognition, scanners, terminals, point-of-sale terminals, machine-vision systems
	Day 3	Test
5	Day 1	. Hard-copy devices: Impact printers - DMPs, Daisy-wheel printers, Line-printers.
	Day 2	Non-impact printers - Inkjet, Laser, Thermal, LED; Plotters. Soft-copy devices: Monitors, video-standards (VGA and SVGA).
	Day 3	Memory & Mass Storage Devices: Characteristics of memory systems, types of memory,
6	Day 1	RAM, ROM, magnetic disks - floppy disk, hard-disk; optical disks - CD, CD-I, CD-ROM; Magnetic tapes; Concepts of Virtual and Cache memory
	Day 2	Software Concepts: Introduction, types of software - System & Application software
	Day 3	Language translators -

7	Day 1	Compiler, Interpreter, Assembler;
	Day 2	Operating system - Characteristics, bootstrapping, types of operating,
	Day 3	operating system as a resource manager;
8	Day 1	BIOS; System utilities - Editor, Loader, Linker, File Manager.
	Day 2	Concept of GUI, GUI standards. Introduction to Algorithm & Flowcharts, Advantages & Disadvantages.
	Day 3	Introduction to networks and internet
9	Day 1	History and working of internet
	Day 2	Modes of connecting to internet
	Day 3	Electronic mail introduction
10	Day 1	Electronic mail advantages and disadvantages
	Day 2	User Ids and passwords
	Day 3	Email addresses
11	Day 1	Message components
	Day 2	Message composition
	Day 3	Mailer features
12	Day 1	Browsers and search engines
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class
13	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class
14	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Macros
15	Day 1	Revision and doubt Class
	Day 2	Revision and doubt Class
	Day 3	Revision and doubt Class