

Lesson Plan

Session: 2023-24

Class: B.Sc.(C.Sc.) Ist Semester

Nomenclature of the paper: Problem Solving through C Paper code: B-23-CSE-101(Major)

Name of the faculty: Dr.Ritu Soni

Month	Week	Topics
August	01-08-23 to 05-08-23	Overview of C: History, Importance, Structure of C Program, Character Set
	07-08-23 to 12-08-23	Constants and Variables, Identifiers and Keywords, Data Types, Assignment Statement, Symbolic Constant.
	14-08-23 to 19-08-23	Input/output: Formatted I/O Function-, Input Functions viz. scanf(), getch(), getche(), getchar(), gets(),
	21-08-23 to 26-08-23	Output functions viz. printf(), putchar(), puts(), Operators & Expression: Arithmetic, Relational
	28-08-2023 to 31-08-2023	Operators & Expression: Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators
September	01-09-2023 to 09-09-2023	Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression, Type Casting and Conversion.
	11-09-2023 to 16-09-2023	Decision making with if statement, ifelse statement, nested if statement, else-if ladder, switch and break statement, goto statement,
	18-09-2023 to 23-09-2023	Looping Statements: for, while, and dowhile loop, jumps in loops
	25-09-2023 to 30-09-2023	Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation; Two Dimensional arrays - Declaration, Initialization and Memory representation.
October	03-10-2023 to 07-10-2023	Functions: definition, prototype, function call, passing arguments to a function: call by value
	09-10-2023 to 14-10-2023	Call by reference, recursive functions. Strings: Declaration and Initialization, String I/O, Array of Strings
	16-10-2023 to 21-10-2023	String Manipulation Functions: String Length, Copy, Compare, Concatenate etc., Search for a Substring
	23-10-2023 to 28-10-2023	Pointers in C: Declaring and initializing pointers, accessing address and value of variables using pointers
	30-10-2023 to 31-10-2023	Pointers and Arrays. User defined data types: Structures - Definition, Advantages of Structure
November	02-11-2023 to 4-11-2023	Declaring structure variables, accessing structure members
	06-11-2023 to 09-11-2023	Structure members initialization, Array of Structures
	17-11-2023 to 24-11-2023	Unions - Union definition; difference between Structure and Union

Lesson Plan

Session: 2023-24

Class: B.Sc.(Non-Medical) 1st Semester

Subject: Basics of Computer Science

Paper code: B-23-CSE-103(Minor)

Name of the faculty: Ms. Neetu

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction, Definition, History
	07-08-23 to 12-08-23	Generation Of Computers. Characteristics
	14-08-23 to 19-08-23	Classification of Computers, Block Diagram of computer
	21-08-23 to 26-08-23	Block Diagram of computer Input Units.
	28-08-2023 to 31-08-2023	Input and Output Units.
September	01-09-2023 to 09-09-2023	Class Test Unit -I, Introduction and Definition of Software.
	11-09-2023 to 16-09-2023	Types of software System, Application and Utility soft wear.
	18-09-2023 to 23-09-2023	Definition and Types of software Languages Assembler, Interpreters, Compiler.
	25-09-2023 to 30-09-2023	Introductions to Windows, Types.
October	03-10-2023 to 07-10-2023	Function OF operating System, Introduction to Window.
	09-10-2023 to 14-10-2023	Window Starting, Desktop, Task Bar, Opening & Closing Application.
	16-10-2023 to 21-10-2023	Icons creating, renaming,& removing, Date & Time Setting.
	23-10-2023 to 28-10-2023	Working with File and Folder: Create, deleting, opening, finding coping, moving and Renaming.
	30-10-2023 to 31-10-2023	Concepts, Basic Elements Of a Communication System
November	02-11-2023 to 4-11-2023	Data Transmission Media LAN, MAN.
	06-11-2023 to 09-11-2023	MAN, WAN, Introduction Of Internet.
	17-11-2023 to 24-11-2023	WWW, basic Working of Web Browsers & Introduction To Popular web browsers.

Lesson Plan

Session: 2023-24

Class: B.Sc. C. Sc.- 3rdSemester

Subject: Data Structures

Paper: Paper I

Teacher Incharge: Dr. Aarti Singh

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction: Elementary data organization, Data Structure definition, Data type vs. data structure, Categories of data structures
	07-08-23 to 12-08-23	Data structure operations, Applications of data structures, Algorithms complexity and time-space tradeoff, Big-O notation
	14-08-23 to 19-08-23	Strings: Introduction, strings, String operations, Pattern matching algorithms
	21-08-23 to 26-08-23	Arrays: Introduction, Linear arrays, Representation of linear array in memory
	28-08-2023 to 31-08-2023	Array Traversal, Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrix
September	01-09-2023 to 09-09-2023	Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal, Insertion
	11-09-2023 to 16-09-2023	Garbage collection, Applications of linked lists. Algorithm of insertion/ deletion in SLL
	18-09-2023 to 23-09-2023	Stack: primitive operation on stack, algorithms for push and pop. Representation of Stack as Linked List and array
	25-09-2023 to 30-09-2023	Stacks applications : polish notation, recursion
October	03-10-2023 to 07-10-2023	Introduction to queues, Primitive Operations on the Queues, Circular queue, Priority queue
	09-10-2023 to 14-10-2023	Representation of Queues as Linked List and array, Applications of queue
	16-10-2023 to 21-10-2023	Algorithm on insertion and deletion in simple queue and circular queue
	23-10-2023 to 28-10-2023	Trees - Basic Terminology, representation, Binary Trees, Tree Representations using Array & Linked List
	30-10-2023 to 31-10-2023	Basic operation on Binary tree, Traversal of binary trees: Inorder, Preorder & postorder, Applications of Binary tree
November	02-11-2023 to 4-11-2023	Algorithm of tree traversal with and without recursion
	06-11-2023 to 09-11-2023	Introduction to graphs, Definition, Terminology, Directed, Undirected & Weighted graph, Representation of graphs
	17-11-2023 to 24-11-2023	Revision Sessions

Lesson Plan

Session: 2023-24

Class: B.Sc. C.Sc.- 3rd Semester

Subject: Software Engineering

Paper: Paper II

Teacher Incharge: Dr. Ritu Soni

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction: Program vs. Software, Software Engineering, Programming paradigms
	07-08-23 to 12-08-23	Software Crisis – problem and causes, Phases in Software development: Requirement Analysis
	14-08-23 to 19-08-23	Software Design, Coding, Testing, Maintenance
	21-08-23 to 26-08-23	Software Development Process Models: Waterfall, Prototype, Evolutionary and Spiral models, Role of Metrics
	28-08-2023 to 31-08-2023	Feasibility Study, Software Requirement Analysis and Specifications
September	01-09-2023 to 09-09-2023	SRS, Need for SRS, Characteristics of an SRS, Components of an SRS
	11-09-2023 to 16-09-2023	Problem Analysis, Information gathering tools, Organising and structuring information
	18-09-2023 to 23-09-2023	Requirement specification, validation and metrics
	25-09-2023 to 30-09-2023	Structured Analysis and Tools: Data Flow Diagram, Data Dictionary,
October	03-10-2023 to 07-10-2023	Decision table, Decision trees, Structured English, Entity-Relationship diagrams
	09-10-2023 to 14-10-2023	Software Project Planning: Cost estimation: COCOMO model, Project scheduling, Staffing and personnel planning, team structure
	16-10-2023 to 21-10-2023	Software configuration management, Quality assurance plans, Project monitoring plans, Risk Management
	23-10-2023 to 28-10-2023	Software testing strategies: unit testing, integration testing, V and V
	30-10-2023 to 31-10-2023	System testing, Alpha and Beta testing. Black box, white box testing. Cyclomatic Complexity
November	02-11-2023 to 4-11-2023	Software Implementation and Maintenance, Type of maintenance, Management of Maintenance
	06-11-2023 to 09-11-2023	Maintenance Process, maintenance characteristics
	17-11-2023 to 24-11-2023	Revision Sessions

Lesson Plan

Session: 2023-24

Class: B.Sc. C.Sc.- 5thSemester

Subject: Fundamentals of Database Systems

Paper: Paper I

Teacher Incharge: Dr. Aarti Singh

Month	Week	Topics
August	01-08-23 to 05-08-23	Basic Concepts – Data, Information, Records and files. Traditional file Based Approach-Limitations of Traditional File Based Approach
	07-08-23 to 12-08-23	Database Approach-Characteristics of Database Approach, Database Management System (DBMS)
	14-08-23 to 19-08-23	Components of DBMS Environment, DBMS Functions and Components
	21-08-23 to 26-08-23	Advantages and Disadvantages of DBMS. Actors on the Scene - Data and Database Administrator, Database Designers
	28-08-2023 to 31-08-2023	Actors on the Scene - End users Applications Developers and Workers behind the Scene.
September	01-09-2023 to 09-09-2023	Database System Architecture – Three Levels of Architecture, Schemas – External, Conceptual and Internal Level
	11-09-2023 to 16-09-2023	Database Languages – VDL, DDL, SDL, DML, SQL, Mappings – External/ Conceptual and Conceptual/Internal
	18-09-2023 to 23-09-2023	Instances, Data Independence – Logical and Physical Data Independence
	25-09-2023 to 30-09-2023	Data Models: High Level, Low Level and Representational – Records- based Data Models, Object-based Data Models, Physical Data Models and Conceptual Models
October	03-10-2023 to 07-10-2023	Entity-Relationship Model – Concepts, Entity Types, Entity Sets, Attributes, Relationships, Constraints, Keys , Degree, Cardinality etc.
	09-10-2023 to 14-10-2023	ER Diagrams of any Database Organization- Inventory System, Payroll System
	16-10-2023 to 21-10-2023	ER Diagrams of Database Organizations- Reservation System, Online Book Store etc.
	23-10-2023 to 28-10-2023	Classification of Database Management System, Centralized and Client Server architecture
	30-10-2023 to 31-10-2023	Relational Data Model:-Brief History, Terminology in Relational Data Structure
November	02-11-2023 to 4-11-2023	Relations, Properties of Relations, Keys – Primary, Secondary,
	06-11-2023 to 09-11-2023	Relation Keys- Composite, Candidate, Alternate and Foreign Key, Domains, Integrity Constraints over Relations
	17-11-2023 to 24-11-2023	Revision Sessions

Lesson Plan

Session: 2023-24

Class: B.Sc. C. Sc.- 5thSemester

Subject: Web Designing

Paper: Paper II

Teacher Incharge: Dr. Aarti Singh

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web
	07-08-23 to 12-08-23	Basic Features; Web Browsers; Web Servers; Hypertext Transfer Protocol
	14-08-23 to 19-08-23	URLs; Searching and Web-Casting Techniques
	21-08-23 to 26-08-23	Search Engines and Search Tools
	28-08-2023 to 31-08-2023	Steps for Developing Website: Choosing the Contents
September	01-09-2023 to 09-09-2023	Steps for Developing Website: Home Page; Domain Names
	11-09-2023 to 16-09-2023	Internet Service Provider; Planning and Designing Web Site
	18-09-2023 to 23-09-2023	Creating a Website; Web Publishing; Hosting Site;
	25-09-2023 to 30-09-2023	Introduction to HTML; Hypertext and HTML; HTML Document Features
October	03-10-2023 to 07-10-2023	HTML Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line
	09-10-2023 to 14-10-2023	Creating Links; Headers; Text Styles; Text Structuring
	16-10-2023 to 21-10-2023	Text Colors and Background; Formatting Text
	23-10-2023 to 28-10-2023	Page layouts; Insertion of Text, Movement of Text
	30-10-2023 to 31-10-2023	Images: Types of Images, Insertion of Image, Movement of Image, Ordered and Unordered lists
November	02-11-2023 to 4-11-2023	Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours
	06-11-2023 to 09-11-2023	Frame Creation and Layouts; Working with Forms and Menus; Working with Buttons like Radio, Check Box
	17-11-2023 to 24-11-2023	Revision Sessions

Lesson Plan

Session: 2023-24

Class: BCA- Ist Semester

Subject: Problem Solving through C

Paper: B23-CAP-101

Teacher Incharge: Ms. Rita

Month	Week	Topics
August	21-07-2023 to 31-07-2023	Overview of C: History, Importance, Structure of C Program, Character Set, Constants and Variables,
	01-08-2023 to 05-08-2023	Identifiers and Keywords, Data Types, Assignment Statement, Symbolic Constant.
	07-08-2023 to 12-08-2023	Input/output: Formatted I/O Function-, Input Functions viz. scanf(), getch(), getche(), getchar(), gets(), output functions viz. printf(), putchar(), puts().
	14-08-2023 to 19-08-2023	Operators & Expression: Arithmetic, Relational, Logical, Bitwise,Unary, Assignment, Conditional Operators and Special Operators
	21-08-2023 to 26-08-2023	Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression,
	28-08-2023 to 31-08-2023	Type Casting and Conversion.Decision making with if statement, if-else statement
September	01-09-2023 to 09-09-2023	Nested if statement,Else-if ladder, switch and break statement, goto statement,
	11-09-2023 to 16-09-2023	Looping Statements: for, while, and do-while loop, jumps in loops.
	18-09-2023 to 23-09-2023	Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation;
	25-09-2023 to 30-09-2023	Two Dimensional arrays -Declaration, Initialization and Memory representation.Functions: definition, prototype, function call,
October	03-10-2023 to 07-10-2023	passing arguments to a function, Call by value; call by reference, recursive functions
	09-10-2023 to 14-10-2023	Strings: Declaration and Initialization, String I/O, Array of Strings,
	16-10-2023 to 21-10-2023	String Manipulation Functions: String Length,Copy, Compare, Concatenate etc., Search for a Substring.
	23-10-2023 to 28-10-2023	Pointers in C: Declaring and initializing pointers, accessing address and value of variables using pointers;
	30-10-2023 to 31-10-2023	Pointers and Arrays.
November	02-11-2023 to 4-11-2023	User defined data types: Structures - Definition, Advantages of Structure, declaring structure variables
	06-11-2023 to 09-11-2023	Accessing structure members, Structure members initialization
	17-11-2023 to 24-11-2023	Array of Structures; Unions - Union definition; difference between Structure and Union.

Lesson Plan

Session: 2023-24

Class: BCA- Ist Semester

Subject: Foundations of Computer Science

Paper: B23-CAP-102

Teacher Incharge: Dr.Aarti Singh

Month	Week	Topics
August	21-07-2023 to 31-07-2023	Computer Fundamentals: Evolution of Computers through generations, Characteristics of Computers, Strengths and Limitations of Computers, Classification of Computers,
	01-08-2023 to 05-08-2023	Functional Components of a Computer System, Applications of computers in Various Fields.Types of Software: System software,
	07-08-2023 to 12-08-2023	Application software, Utility Software, Shareware, Freeware, Firmware, Free Software.
	14-08-2023 to 19-08-2023	Memory Systems: Concept of bit, byte, word, nibble, storage locations and addresses, measuring units of storage capacity, access time,
	21-08-2023 to 26-08-2023	Concept of memory hierarchy. Primary Memory - RAM, ROM,PROM, EPROM.
	28-08-2023 to 31-08-2023	Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
September	01-09-2023 to 09-09-2023	I/O Devices: I/O Ports of a Desk Top Computer, Device Controller, Device Driver. Input Devices: classification and use, keyboard, pointing devices - mouse, touch pad and track ball, joystick
	11-09-2023 to 16-09-2023	Magnetic stripes, scanner, digital camera, and microphone Output Devices: speaker, monitor, printers: classification, laser, ink jet, dot-matrix Plotter.
	18-09-2023 to 23-09-2023	Introduction to Operating System: Definition, Functions, Features of Operating System, Icon, Folder, File, Start Button
	25-09-2023 to 30-09-2023	Task Bar, Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
October	03-10-2023 to 07-10-2023	The Internet: Introduction to networks and internet, history, Internet,Intranet & Extranet, Working of Internet, Modes of Connecting to Internet.
	09-10-2023 to 14-10-2023	Electronic Mail: Introduction, advantages and disadvantages, User Ids, Passwords, e-mail addresses,
	16-10-2023 to 21-10-2023	Message components, message composition, mailer features. Browsers and search engines.
	23-10-2023 to 28-10-2023	Threats: Physical & non-physical threats, Virus, Worm, Trojan, Spyware, Keyloggers, Rootkits,
	30-10-2023 to 31-10-2023	Adware, Cookies, Phishing, Hacking,Cracking.
November	02-11-2023 to 4-11-2023	Computer Security Fundamentals: Confidentiality, Integrity, Authentication, Non-Repudiation
	06-11-2023 to 09-11-2023	Security Mechanisms, Security Awareness, Security Policy,
	17-11-2023 to 24-11-2023	Anti-virus software & Firewalls, backup& recovery.

Lesson Plan

Session: 2023-24

Class: BCA- 1st Semester

Subject: Logical Organization of Computer

Paper: B23-CAP-103

Teacher Incharge: Ms. Poonam Bhatia

Month	Week	Topics
August	21-07-2023 to 31-07-2023	Number System: Binary, Octal, hexadecimal etc.
	01-08-2023 to 05-08-2023	Conversion from one number system to another
	07-08-2023 to 12-08-2023	BCD Number system. BCD codes, Natural Binary Code, Weighted Code, Self Complementing Code, Cyclic Code
	14-08-2023 to 19-08-2023	Error Detecting and Correcting Codes, Character Representation: ASCII, EBCDIC and Unicode
	21-08-2023 to 26-08-2023	Number Representation: Integer Numbers-Sign Magnitude, 1's & 2's Complement Representation, Real Number Normalized floating point Representation
	28-08-2023 to 31-08-2023	Binary Arithmetic: Binary Addition, Binary Subtraction, Binary Multiplication, Binary Division using 1's and 2's complement. Addition and subtraction with BCD representations
September	01-09-2023 to 09-09-2023	Boolean Algebra: Boolean Algebra Postulates, basic Boolean Theorems, Boolean Expressions, Boolean Functions, Truth Tables
	11-09-2023 to 16-09-2023	Canonical Representation of Boolean Expression: SOP and POS, Simplification of Boolean Expression using Boolean Postulates and Theorems
	18-09-2023 to 23-09-2023	Karnaugh-Maps(upto four variables) Handling Don't Care conditions
	25-09-2023 to 30-09-2023	Logic Gates: Basic Logic Gates-AND,OR,NOT, Universal Gates-NAND,NOR, Other Gates-XOR,XNOR etc. their Symbols, truth tables and Boolean Expressions
October	03-10-2023 to 07-10-2023	Combinational Circuits: Design Procedures, Half Adder, Full Adder, Half Subtractor, Full Subtractor
	09-10-2023 to 14-10-2023	Multiplexers, Demultiplexers, Decoder, Encoder, Comparators, Code Converters
	16-10-2023 to 21-10-2023	Sequential Circuits: Basic Flip-Flops and their working. Synchronous and Asynchronous Flip-Flops
	23-10-2023 to 28-10-2023	Triggering of Flip-Flops, Clocked RS,D, JK, T Type and Master-Slave JK Flip-Flop, State Table, State Diagram and State Equations
	30-10-2023 to 31-10-2023	Flip-Flops Characteristics and Excitation Tables
November	02-11-2023 to 04-11-2023	Sequential Circuits: Designing Registers- Serial- In-Serial-Out(SISO), Serial- In-Parallel-Out(SIPO), Parallel-In-Serial-Out(PISO), Parallel-In-Parallel-Out(PIPO)
	06-11-2023 to 09-11-2023	Shift Registers
	17-11-2023 to 24-11-2023	Revision

Lesson Plan

Session: 2023-24

Class: BCA- 1st Semester

Subject: Mathematical foundation for Computer science-I

Paper: B-23-CAP-104

Teacher Incharge: Ms. Richa

Month	Week	Topics
August	21-07-2023 to 31-07-2023	Sets and their representations, Empty set,
	01-08-2023 to 05-08-2023	Finite and infinite sets, Subsets, Equal sets, Power sets, Universal set, Union and intersection of sets, Difference of two sets
	07-08-2023 to 12-08-2023	Complement of a set, Venn diagram, De-Morgan's laws and their applications.
	14-08-2023 to 19-08-2023	An introduction to matrices and their types, Operations on matrices,
	21-08-2023 to 26-08-2023	Symmetric and skew-symmetric matrices, Minors, Co-factors. Determinant of a square matrix Assignment of Matrix and its Types
	28-08-2023 to 31-08-2023	Adjoin and inverse of a square matrix, Solutions of a system of linear equations up to order 3.
September	01-09-2023 to 09-09-2023	Quadratic equations, Solution of quadratic equations. Arithmetic progression
	11-09-2023 to 16-09-2023	Geometric progression, Harmonic progression, Arithmetic mean (A.M.), Geometric mean (G.M.)
	18-09-2023 to 23-09-2023	Harmonic mean (H.M.), Relation between A.M., G.M. and H.M.
	25-09-2023 to 30-09-2023	The concept of differentiation, differentiation of simple functions,
October	03-10-2023 to 07-10-2023	Problems involving formulation and solution of quadratic equations in one variable
	09-10-2023 to 14-10-2023	Use of differentiation for solving problems related to real-life situations
	16-10-2023 to 21-10-2023	Test of unit I and II
	23-10-2023 to 28-10-2023	Problems to find first derivatives of functions
	30-10-2023 to 31-10-2023	Differentiation of simple algebraic, trigonometric and exponential functions
November	02-11-2023 to 4-11-2023	Problems based on De Morgan's Laws. Problems related to Venn diagrams.
	06-11-2023 to 09-11-2023	Problems to find inverse of a matrix.
	17-11-2023 to 24-11-2023	Problems to find determinant of a square matrix

Lesson Plan

Session: 2023-24

Class: BCA- 3rd Semester

Subject: Object Oriented Programming using C++

Paper: BCA-231

Teacher Incharge: Ms. Konika

Month	Week	Topics
August	01-08-23 to 05-08-23	Object oriented programming features and benefits, Object-Oriented features of C++, Class and Objects
	07-08-23 to 12-08-23	Data hiding and Encapsulation, Structures, Data Member, Member Function, Scope resolution operator and its significance
	14-08-23 to 19-08-23	Static Data Member, Static member function, Nested and Local class
	21-08-23 to 26-08-23	Accessing members of class and structures, Constructor, Initialization using Constructor
	28-08-2023 to 31-08-2023	Types of Constructor- Default, Parameterize and Copy Constructor
September	01-09-2023 to 09-09-2023	Constructor Overloading, Default Values to Parameters, Destructors
	11-09-2023 to 16-09-2023	Hierarchy of Console Stream classes,
	18-09-2023 to 23-09-2023	Unformatted and Formatted I/O Operations
	25-09-2023 to 30-09-2023	Manipulators, Friend Function, Friend Class
October	03-10-2023 to 07-10-2023	Array, Array of Objects, Passing and Returning Objects to Functions
	09-10-2023 to 14-10-2023	String Handling in C++
	16-10-2023 to 21-10-2023	Dynamic Memory Management:-Pointers, New and Delete Operator,
	23-10-2023 to 28-10-2023	Array of Pointer to objects, this Pointer
	30-10-2023 to 31-10-2023	Passing Parameters to Functions by Reference &Pointers, Introduction to Polymorphism
November	02-11-2023 to 4-11-2023	Operators in C++, Introduction to Operator Overloading
	06-11-2023 to 09-11-2023	Precedence and Associativity rules, Unary and Binary Operator Overloading
	17-11-2023 to 24-11-2023	Function Overloading ,Inline Function

Lesson Plan

Session: 2023-24

Class: BCA- 3rd Semester

Subject: Data Structures-I

Paper: BCA-232

Teacher Incharge: Ms. Heena Grover

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction: Definition of Data Structure, Elementary data organization, Data Types vs. data structure
	07-08-23 to 12-08-23	Data Structure Operations, Applications of data structures, Algorithm complexity and time-space tradeoff, Big-O notation
	14-08-23 to 19-08-23	String Introduction, String Operations, Pattern matching algorithms
	21-08-23 to 26-08-23	Introduction of Arrays, Linear arrays, Representation of linear array in memory, Traversal
	28-08-2023 to 31-08-2023	Insertion, Deletion in array, Multidimensional arrays, Parallel Arrays
September	01-09-2023 to 09-09-2023	Sparse matrices, Linked List Introduction, Arrays vs. linked list, Representation of Linked Lists in memory
	11-09-2023 to 16-09-2023	Linked list traversal, Insertion, Deletion in Linked List, Searching in a Linked List
	18-09-2023 to 23-09-2023	Header Linked List, Circular Linked List, Two-way Linked List, Garbage collection
	25-09-2023 to 30-09-2023	Applications of Linked Lists, Stack Introduction, Arrays and Linked Representation of Stacks
October	03-10-2023 to 07-10-2023	Operations on Stacks
	09-10-2023 to 14-10-2023	Applications of Stacks, Polish notation
	16-10-2023 to 21-10-2023	Recursion Introduction of Queues ,Array and Linked Representation of Queues, Operation on Queues
	23-10-2023 to 28-10-2023	Priority Queues, Applications of Queues
	30-10-2023 to 31-10-2023	Introduction of Trees, Definition ,Representing Binary tree in memory
November	02-11-2023 to 4-11-2023	Traversing Binary Trees
	06-11-2023 to 09-11-2023	Tree Traversal algorithms using Stacks, Introduction of Graph, Graph theory terminology
	17-11-2023 to 24-11-2023	Sequential and Linked List representation of Graphs, Revision

Lesson Plan

Session: 2023-24

Class: BCA- 3rd Semester

Subject: Computer Architecture

Paper: BCA-233

Teacher Incharge: Ms. Poonam Bhatia

Month	Week	Topics
August	01-08-23 to 05-08-23	Basic Computer Organisation and Design: Instruction Codes, Computer Registers
	07-08-23 to 12-08-23	Computer Instructions, Timing and Control
	14-08-23 to 19-08-23	Instruction Cycle, Memory Reference Instructions.
	21-08-23 to 26-08-23	Input-Output and Interrupt, Design of Basic Computer, Design of Accumulator Logic
	28-08-2023 to 31-08-2023	Register Reference and Microoperations: Register Transfer Language, Register Transfer
September	01-09-2023 to 09-09-2023	Bus and Memory Transfers, Arithmetic Microoperations, Logic Microoperations
	11-09-2023 to 16-09-2023	Shift Microoperations, Arithmetic, Logic and Shift Unit
	18-09-2023 to 23-09-2023	Microprogrammed Control: Control Memory, Address Sequencing, Microprogram Sequencer Design of Control Unit
	25-09-2023 to 30-09-2023	Central Processing Unit: General Register Organization, Stack Organization
October	03-10-2023 to 07-10-2023	Instruction Formats, Addressing Modes
	09-10-2023 to 14-10-2023	Data Transfer and Manipulation, Program Control
	16-10-2023 to 21-10-2023	Program Interrupt, RISC, CISC
	23-10-2023 to 28-10-2023	Memory Organization: Memory Hierarchy, Auxiliary Memory, Associative Memory, Interleaved Memory, Cache Memory, Virtual Memory
	30-10-2023 to 31-10-2023	Memory Management Hardware
November	02-11-2023 to 04-11-2023	Input Output Organization: Peripheral Devices- Input Output Interface
	06-11-2023 to 09-11-2023	Asynchronous Data Transfer, Modes of Transfer, Priority Interrupt
	17-11-2023 to 24-11-2023	Direct Memory Access(DMA), Input-Output Processor

Lesson Plan

Session: 2023-24

Class: BCA - 3rd Semester

Subject: Software Engineering

Paper: BCA-234

Teacher Incharge: Dr. Ritu Soni

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction: Program vs. Software, Software Engineering, Programming paradigms
	07-08-23 to 12-08-23	Software Crisis – problem and causes, Phases in Software development: Requirement Analysis, Software Design, Coding, Testing, Maintenance, Software Development Process Models: Waterfall model
	14-08-23 to 19-08-23	Prototype, Evolutionary and Spiral models, Role of Metrics
	21-08-23 to 26-08-23	Feasibility Study, Software Requirement Analysis and Specifications: SRS
	28-08-2023 to 31-08-2023	Need for SRS, Characteristics of an SRS, Components of a SRS, Problem Analysis
September	01-09-2023 to 09-09-2023	Information gathering tools, Organizing and structuring information, Requirement specification
	11-09-2023 to 16-09-2023	Validation and Verification, SCM, Cohesion and Coupling
	18-09-2023 to 23-09-2023	Structured Analysis and Tools: Data Flow Diagram, Data Dictionary
	25-09-2023 to 30-09-2023	Decision table, Decision tress, Structured English
October	03-10-2023 to 07-10-2023	Entity-Relationship diagrams, Gantt chart, PERT Chart,
	09-10-2023 to 14-10-2023	Software Maintenance: Type of maintenance, Management of Maintenance, Maintenance Process
	16-10-2023 to 21-10-2023	Maintenance characteristics, Software Project Planning: Cost estimation: COCOMO model
	23-10-2023 to 28-10-2023	Project scheduling, Staffing and personnel planning, team Structure
	30-10-2023 to 31-10-2023	Software configuration management, Quality assurance Plans
November	02-11-2023 to 4-11-2023	Project monitoring plans, Risk Management
	06-11-2023 to 09-11-2023	Software testing strategies: unit testing, integration testing, Validation testing
	17-11-2023 to 24-11-2023	System testing, Alpha and Beta testing.

Lesson Plan

Session: 2023-24

Class: BCA- 3rd Semester

Subject: Fundamentals of Database System

Paper: BCA-235

Teacher Incharge: Ms. Poonam Bhatia

Month	Week	Topics
August	01-08-23 to 05-08-23	Basic Concepts-Data, Information, Records, Files
	07-08-23 to 12-08-23	Traditional file based system- File based approach, Limitations of file based approach
	14-08-23 to 19-08-23	Database Approach, Characteristics of Database approach, Database Management System(DBMS), Components of DBMS Environment
	21-08-23 to 26-08-23	DBMS Functions and Components, Advantages and Disadvantages of DBMS, Roles in Database Environment- Data and Database Administrator, Database Designers, Application Developers and Users
	28-08-2023 to 31-08-2023	Database System Architecture- Three Levels of Architecture, External, conceptual and Internal levels
September	01-09-2023 to 09-09-2023	Schemas, Mappings and Instances, Data Independence- Logical and Physical Data Independence
	11-09-2023 to 16-09-2023	Classification of Database Management System, Centralized and Client Server Architecture to DBMS
	18-09-2023 to 23-09-2023	Data Models: Records- based data models, Object Based data models
	25-09-2023 to 30-09-2023	Physical Data Models and Conceptual Modeling,
October	03-10-2023 to 07-10-2023	Entity Relationship Model- Entity Types, Entity Sets, Attribute
	09-10-2023 to 14-10-2023	Relationship Types, Relationship instances and ER Diagrams
	16-10-2023 to 21-10-2023	Relational Data Model- Brief History, Terminology in Relational data Structure
	23-10-2023 to 28-10-2023	Relations, Properties of Relation, Keys, Domains
	30-10-2023 to 31-10-2023	Integrity Constraints over Relations
November	02-11-2023 to 04-11-2023	Base Tables and Views
	06-11-2023 to 09-11-2023	Basic Concepts of Hierarchical and Network Data Model
	17-11-2023 to 24-11-2023	Revision

Lesson plan

Session: 2023-24

Class: BCA- 3rd Semester

Subject: Computer-Oriented Numerical Methods

Paper Code: BCA-236

Name of Faculty: Ms. Shweta Rani

Month	Week	Topics
August	01-08-23 to 05-08-23	Computer Arithmetic: Floating-point representation of numbers
	07-08-23 to 12-08-23	Arithmetic operations with normalized floating-point numbers
	14-08-23 to 19-08-23	Normalized floating-point numbers consequences, Significant figures, Error in number representation-inherent error,
	21-08-23 to 26-08-23	Truncation, Absolute, Relative, Percentage and round-off error
	28-08-2023 to 31-08-2023	Iterative Methods: Bisection, False position
September	01-09-2023 to 09-09-2023	Newton-Raphson method, Iterative method, Discussion of convergence, Bairstrow's methods
	11-09-2023 to 16-09-2023	Solution of simultaneous linear equations and ordinary differential equations: Gauss-Elimination methods, Pivoting, III-conditioned equations
	18-09-2023 to 23-09-2023	Refinement of solution, Gauss-Seidal iterative method, Euler method, Euler modified method
	25-09-2023 to 30-09-2023	Taylor-series Method, Runge-Kutta methods, Predictor-Corrector methods
October	03-10-2023 to 07-10-2023	Interpolation and Approximation:Polynomial Interpolation: Newton,
	09-10-2023 to 14-10-2023	Lagranges Difference tables, Approximation of functions by Taylor Series
	16-10-2023 to 21-10-2023	Chebyshev polynomial: First kind, Second Kind andtheir relations
	23-10-2023 to 28-10-2023	Orthogonal properties
	30-10-2023 to 31-10-2023	Numerical Differentiation and Integration
November	02-11-2023 to 04-11-2023	Differentiation formulae based on polynomial fit
	06-11-2023 to 09-11-2023	Pitfalls in differentiation, Trapezoidal Rules
	17-11-2023 to 24-11-2023	Simpson Rules, Gaussian Quadrature

Lesson Plan

Session: 2023-24

Class: BCA- 5thSemester

Subject: Web Designing Fundamentals

Paper: BCA-351

Teacher Incharge: Ms. Rita

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction to Internet and World Wide Web
	07-08-23 to 12-08-23	Evolution and History of World Wide Web; Basic Features;
	14-08-23 to 19-08-23	Web Browsers, Web Servers. Hypertext Transfer Protocol; Features;
	21-08-23 to 26-08-23	URLs; Searching and Web- Casting Techniques; Search Engines and Search Tools
	28-08-2023 to 31-08-2023	Steps for Developing Website; Choosing the Contents; Home Page;
September	01-09-2023 to 09-09-2023	Internet Service Provider; Domain Names;
	11-09-2023 to 16-09-2023	Planning and Designing Web Site;
	18-09-2023 to 23-09-2023	Creating a Website; Web Publishing: Hosting Site;
	25-09-2023 to 30-09-2023	Introduction to HTML; Hypertext and HTML; HTML Document Features;
October	03-10-2023 to 07-10-2023	HTML Tags; Header, Title, Body, Paragraph,
	09-10-2023 to 14-10-2023	Ordered/Unordered List, Creating Links;
	16-10-2023 to 21-10-2023	Headers; Text Styles; Text Structuring; Text Colors and Background;
	23-10-2023 to 28-10-2023	Formatting Text; Page layouts; Insertion of Text, Movement of Text
	30-10-2023 to 31-10-2023	Images: Types of Images, Insertion of Image, Movement of Image,
November	02-11-2023 to 4-11-2023	Ordered and Unordered lists; Inserting Graphics;
	06-11-2023 to 09-11-2023	Table Handling Functions like Columns, Rows, Width, Colours; Frame Creation and Layouts;
	17-11-2023 to 24-11-2023	Working with Forms and Menus; Working with Buttons like Radio, Check Box;

Lesson Plan

Session: 2023-24

Class: BCA- 5th Semester

Subject: Operating System

Paper: BCA-352

Teacher Incharge: Ms. Shweta Rani

Month	Week	Topics
August	01-08-2023 to 05-08-2023	Operating System: Definition, Characteristics, Components, Functions Examples, Types of Operating System : Single User/ Multi User
	07-08-2023 to 12-08-2023	Classification of Operating System: Batch, Multiprogrammed
	14-08-2023 to 19-08-2023	Timesharing, Multiprocessing, Parallel, Distributed, Real Time, System Calls and System Programs: Process Concept, Process state
	21-08-2023 to 26-08-2023	Process Control Block, Process Scheduling, Scheduling Queues, Schedulers, Context Switch
	28-08-2023 to 31-08-2023	Operation on Processes: Process Creation, Process Termination, Cooperating Processes, Introduction to Threads, Inter-process Communication
September	01-09-2023 to 09-09-2023	CPU Scheduling : Basic Concepts, Scheduling Criteria Scheduling Algorithms: FCFS, SJF
	11-09-2023 to 16-09-2023	Scheduling Algorithms: Priority, Round- Robin, Multilevel Queue , Multilevel Feedback Queue Scheduling
	18-09-2023 to 23-09-2023	Deadlocks: System Model, Deadlock Characterization, Methods of Handling Deadlocks, Deadlock Prevention
	25-09-2023 to 30-09-2023	Deadlock Avoidance, Deadlock Detection and Recovery, Memory Management : Introduction, Swapping
October	03-10-2023 to 07-10-2023	Contiguous Allocation: Single – Partition/ Multiple Partition Allocation
	09-10-2023 to 14-10-2023	External/ Internal Fragmentation, Paging: Basic Method
	16-10-2023 to 21-10-2023	Hardware , Implementation of Page Table
	23-10-2023 to 28-10-2023	Segmentation: Basic Method, Hardware, Implementation of Segment table, advantage / disadvantage of Paging/ Segmentation
	30-10-2023 to 31-10-2023	Virtual Memory: Introduction, Demand Paging, Page replacement
November	02-11-2023 to 04-11-2023	Page Replacement Algorithm : FIFO , Optimal, LRU, Counting, Thrashing and its cause
	06-11-2023 to 09-11-2023	File management: file concepts, file attributes, file operations
	17-11-2023 to 24-11-2023	File Access/Allocation methods, File Protection, file Recovery

Lesson Plan

Session: 2023-24

Class: BCA- 5th Semester

Subject: Artificial Intelligence

Paper: BCA-353

Teacher Incharge: Ms. Manju

Month	Week	Topics
August	01-08-23 to 05-08-23	Artificial Intelligence: Intelligence
	07-08-23 to 12-08-23	AI Concepts, Various Definitions of AI
	14-08-23 to 19-08-23	Knowledge, Knowledge Pyramid,
	21-08-23 to 26-08-23	People and Computers, What Computers can do better than people, What people can do better than Computers
	28-08-2023 to 31-08-2023	Characteristics of AI Problems, Problem Representation in AI, AI Evolution, History of AI ,Components of AI, Applications Areas of AI
September	01-09-2023 to 09-09-2023	The Turing Test, The Revised Turing Test
	11-09-2023 to 16-09-2023	Expert System: Components of Expert System, Knowledge Base, Inference Engine, User Interface, Features of Expert System
	18-09-2023 to 23-09-2023	Expert System Life Cycle, Categories of Expert System, Rule Based vs. Model Based Expert Systems
	25-09-2023 to 30-09-2023	Advantages/limitations of Expert System, Developing an Expert System: Identification, Conceptualization, Formalization, Implementation, Testing Using an Expert System, Application Areas of Expert System
October	03-10-2023 to 07-10-2023	AI and Search Process: Brute Force Search- Depth First/ Breadth First Search
	09-10-2023 to 14-10-2023	Heuristic Search: Hill Climbing,
	16-10-2023 to 21-10-2023	Constraint Satisfaction, Means End Analysis
	23-10-2023 to 28-10-2023	Best First Search, A* Algorithm
	30-10-2023 to 31-10-2023	AO* Algorithm, Beam Search
November	02-11-2023 to 4-11-2023	Natural Language Processing: Introduction, Need, Goal, Fundamental Problems in Natural Language Understanding
	06-11-2023 to 09-11-2023	How people overcome Natural Language Problems, Speech Recognition: Introduction, Advantages and Approaches
	17-11-2023 to 24-11-2023	Introduction to Robotics: Parts of Robot, Controlling a Robot, Intelligent Robots, Mobile Robots, Revision

Lesson Plan

Session: 2023-2024

Class: BCA 5th Semester

Subject: Computer Networks

Paper Code: BCA-354

Teacher Incharge: Ms. Niharika

Month	Week	Topics
August	01-08-2023 to 05-08-2023	Introduction to Data Communication and Computer Networks; Uses of Computer Networks; Types of Computer Networks and their Topologies
	07-08-2023 to 12-08-2023	Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards
	14-08-2023 to 19-08-2023	Network Hardware Components: Connectors, , Bridges, Switches, Routers, Gateways ,Network Software
	21-08-2023 to 26-08-2023	Network Design issues and Protocols , Connection-Oriented and Connectionless Services; OSI Reference Model; Networking Models: Distributed Systems
	28-08-2023 to 31-08-2023	Client/Server Model, Peer-to-Peer Model, Web-Based Model and Emerging File-Sharing Model
September	01-09-2023 to 09-09-2023	Analog and Digital data and signals; Bandwidth and Data Rate, Capacity, Baud Rate, Transmission Impairment; Data Rate Limits;
	11-09-2023 to 16-09-2023	Guided Transmission Media; Wireless Transmission, Communication Satellites;
	18-09-2023 to 23-09-2023	Modems and Modulation techniques; ADSL and Cable Modems; Data Link Layer Design issues, Error Detection and Correction
	25-09-2023 to 30-09-2023	Sliding Window Protocols: One-bit, Go Back N and Selective Repeat, Media Access Control
October	03-10-2023 to 07-10-2023	ALOHA, Slotted ALOHA, CSMA, Collision free protocols; Introduction to LAN technologies
	09-10-2023 to 14-10-2023	Ethernet , Switched Ethernet ,Fast Ethernet, Gigabit Ethernet; Token Ring, Introduction to Wireless LANs and Bluetooth
	16-10-2023 to 21-10-2023	VLANs, Routing Algorithms: Flooding; Shortest Path Routing
	23-10-2023 to 28-10-2023	Distance Vector Routing , Link State Routing, Hierarchical Routing
	30-10-2023 to 31-10-2023	Congestion Control; Traffic shaping; Choke packets; Load shedding
November	02-11-2023 to 04-11-2023	Elements of Transport Protocols; Network Security Issues: Security attacks
	06-11-2023 to 09-11-2023	Revision
	17-11-2023 to 24-11-2023	Encryption methods; Digital Signature; Digital Certificate

Lesson Plan

Session: 2023-24

Class: BCA- 5th Semester

Subject: Programming using Visual Basic

Paper: BCA-355

Teacher Incharge: Ms. Ramanpreet Kaur

Month	Week	Topics
August	01-08-2023 to 05-08-2023	Introduction to VB: Visual & Non-Visual Programming
	07-08-2023 to 12-08-2023	Procedural, Object-Oriented, Object-Based and Event-Driven Programming Languages, VB as Even-Driven and Object-Based Language
	14-08-2023 to 19-08-2023	VB Environment: Menu bar, Toolbar, Project explorer, Toolbox, Properties Window, Form Designer, Form Layout, Immediate window, Default Controls in Tool Box Visual Development and Event Driven programming
	21-08-2023 to 26-08-2023	Basics of Programming: Variables: Declaring Variables, Types of variables, Converting Variables Types
September	28-08-2023 to 02-09-2023	User Defined Data Types, Forcing Variable Declaration, Scope & Lifetime of Variables
	04-09-2023 to 09-09-2023	Constants: Named & Intrinsic, Operators: Arithmetic, Relational & Logical operators
	11-09-2023 to 16-09-2023	Input/output in VB: Various Controls for I/O, Message box, Input Box, Print statement
	18-09-2023 to 23-09-2023	Decision Statements in VB - if statement, if-then-else, select-case
	25-09-2023 to 30-09-2023	Looping Statements in VB: do-loop, for-next, while-wend; Exit statement, Nested Control Structure
October	03-10-2023 to 07-10-2023	Simple Program Development in VB such as Sum of Numbers, Greatest among Numbers, Checking Even/Odd Number
	9-10-2023 to 14-10-2023	Arrays: Declaring and using Arrays, One-dimensional, Two-dimensional and Multi-dimensional Arrays
	16-10-2023 to 21-10-2023	Static and Dynamic arrays, Array of Arrays
	23-10-2023 to 28-10-2023	Procedures: General & Event Procedures, Subroutines, Functions
	30-10-2023 to 31-10-2023	Calling Procedures, Arguments - Passing Mechanisms
November	02-11-2023 to 04-11-2023	Program to find Factorial of a Number, Searching, Sorting
	06-11-2023 to 09-11-2023	Program to Generate Prime Numbers, Generate Fibonacci Series
	17-11-2023 to 24-11-2023	Optional Arguments, Named Arguments, Functions Returning Custom Data Types

Lesson Plan

Session: 2023-24

Class: BCA- 5th Semester

Subject:Multimedia Tools

Paper: BCA-356

Teacher Incharge: Ms. Neetu

Month	Week	Topics
August	01-08-23 to 05-08-23	Multimedia: concept, Definition, Components & Application of Multimedia.
	07-08-23 to 12-08-23	Application of Multimedia,Hypermedia and Multimedia.
	14-08-23 to 19-08-23	Multimedia Hardware Tool
	21-08-23 to 26-08-23	Multimedia Software Tools,Authoring Tool.
	28-08-2023 to 31-08-2023	Types of Authoring Tool, VRML,(CLASS TEST-1)
September	01-09-2023 to 09-09-2023	Graphics/Image Data types, File Formats
	11-09-2023 to 16-09-2023	Color Models In Images, Color Models In Video.
	18-09-2023 to 23-09-2023	Types Of Video Signals, Analog Video Standards (NTSC,PAL)
	25-09-2023 to 30-09-2023	Analog Video Standards (SECA), Digital Video Standards(Chroma Subsample, CCIR,HDTV))
October	03-10-2023 to 07-10-2023	Presentation WEEK-1
	09-10-2023 to 14-10-2023	Presentation WEEK-2
	16-10-2023 to 21-10-2023	Analog Video Standards & Digital video Standards, Digital Audio File Formats,
	23-10-2023 to 28-10-2023	MIDI and Quantization and Transmission Of Audio ,PCM
	30-10-2023 to 31-10-2023	DPCM,DM,ADPCM
November	02-11-2023 to 4-11-2023	Compression Techniques, Introduction, Types of Data Compression, Image Compression Techniques.
	06-11-2023 to 09-11-2023	Image Compression Techniques(JPEG Standard for Image Compression, JPEG Mode)
	17-11-2023 to 24-11-2023	Video Compression Techniques(H.261,H.263,MPEG)

Lesson Plan

Session: 2023-24

Class: M.Sc.(Software) 1st Semester

Subject: Web Engineering

Paper: MS-15-11

Teacher Incharge: Ms. Heena Grover

Month	Week	Topics
August	07-08-2023 to 12-08-2023	Basic concepts: The Internet, WWW, Web Engg, Basic Protocols of Internet, Web Browsers, URLs.
	14-08-2023 to 19-08-2023	Web based applications, Web application Vs Conventional Software, Need for an engg. Approach.
	21-08-2023 to 26-08-23	Introduction to HTTP, working of HTTP, Request and Response messages. Structure of Request message and Response message.
	28-08-2023 to 31-08-2023	Web Servers and their features, Types of web servers, Static and Dynamic web servers.
September	01-09-2023 to 09-09-2023	Virtual Host, Secure Servers, Introduction to HTML: structure of an html program.
	11-09-2023 to 16-09-2023	Basic tags in HTML, lists, Tables , Frames , Forms, Creating page in HTML.
	18-09-2023 to 23-09-2023	Introduction to XHTML, Syntax and Semantics, XHTML abstract syntax.
	25-09-2023 to 30-09-2023	Introduction to CSS, Basic elements in CSS, Type of style sheets, Text properties.
October	03-10-2023 to 07-10-2023	Box model in CSS, Normal flow box layout, Positioning and other properties.
	09-10-2023 to 14-10-2023	Introduction to JavaScript, Variables, Data types, Statements, operators, Literals, Functions.
	16-10-2023 to 21-10-2023	Objects, Array and built in function in JavaScript.
	23-10-2023 to 28-10-2023	Introduction to server side programming, Servlet architecture, Servlet life cycle, Dynamic content generation.
	30-10-2023 to 31-10-2023	Sessions, Cookies, URL rewriting, Servlets capability, Servlet and concurrency.
November	02-11-2023 to 4-11-2023	Introduction to XML: Goals, Structure and syntax.
	06-11-2023 to 09-11-2023	XML DTD, Relation between XML.
	17-11-2023 to 25-11-2023	SGML and HTML and Practically Revision.
	27-11-2023 to 30-11-2023	Names spacing and data typing ,Transforming XML documents.
December	01-12-2023 to 02-12-2023	XPATH, Template based transformation.
	04-12-2023 to 06-12-2023	Linking with XML, displaying XML documents in Browsers.

Lesson Plan

Session: 2023-24

Class: M.Sc.(Software) 1st Semester

Subject: Data Structures And Algorithms

Paper: MS-15-12

Teacher Incharge: Ms. Heena Grover

Month	Week	Topics
August	07-08-2023 to 12-08-2023	Introduction: Data Structure definition, Classification of Data Structures, Arrays, Stack Definition, Representation of Stack, Stack Operations, Applications.
	14-08-2023 to 19-08-2023	Queue Definition, Operations on Queue, Circular Queues, Dequeue, Priority Queues, Applications, LinkedList Introduction, Types, Operations (Insertion, Deletion, Traversal, Searching, Sorting).
	21-08-2023 to 26-08-2023	Applications, Dynamic Memory Management of Linked List, Implementation of Linked Representations
	28-08-2023 to 31-08-2023	Trees Definition, Representation of Trees, Types of Tree, Representation of Binary Trees, Binary Tree Traversals.
September	01-09-2023 to 09-09-2023	Threaded Binary Trees, Binary Search Trees and Operations, Minimum Spanning Tree, AVL Trees, Heap, m-way Search Trees, B-Trees, B+ Trees, Applications.
	11-09-2023 to 16-09-2023	Introduction to 2-3 Tree, Red-black Tree, Splay Tree, Graph Definition and Basic Terminologies, Representation of Graphs, Graph Traversal
	18-09-2023 to 23-09-2023	Shortest Path Problem, Applications, Introduction to algorithms: Role of Algorithms in computing, Complexity of Algorithms
	25-09-2023 to 30-09-2023	Analyzing Algorithms, Designing Algorithms, Asymptotic notations, Divide and Conquer Technique, Complexity of iterative programs and recursive programs.
October	03-10-2023 to 07-10-2023	Solving Recurrence equations, back substitute method, recursion tree method, master theorem.
	09-10-2023 to 14-10-2023	Heap sort, Quick Sort, Analysis of Heap sort and Quick Sort, Counting Sort, Radix Sort, Bucket Sort, Lower bounds for sorting.
	16-10-2023 to 21-10-2023	Dynamic Programming Introduction, Elements of DP, Matrix chain multiplication, Longest common subsequence, Optimal binary search trees.
	23-10-2023 to 28-10-2023	Greedy Techniques Introduction, Elements of GT, Activity Selection Problem, Huffman Codes, Knapsack Problem.
	30-10-2023 to 31-10-2023	Graph Algorithms-Single Source Shortest path.
November	02-11-2023 to 4-11-2023	Dijkstra's algorithm and its Analysis, Limitation of Dijkstra's Algorithm.
	06-11-2023 to 09-11-2023	Negative weight cycle, Bellman ford algorithm, All pair shortest path, Relation of Shortest path and matrix multiplication.
	17-11-2023 to 25-11-2023	Floyd Warshall Algorithm and its Analysis, Maximum Flow network, Ford Fulkerson's method.
	27-11-2023 to 30-11-2023	Floyd Warshall Algorithm and its Analysis.
December	01-12-2023 to 02-12-2023	Maximum Flow network.
	04-12-2023 to 06-12-2023	Ford Fulkerson's method and Revision

Lesson Plan

Session: 2023-24

Class: M.Sc.(Software) 1st Semester

Subject: Object Oriented Analysis and Design Using UML Paper: MS-15-13

Teacher Incharge: Ms. Konika

Month	Week	Topics
August	07-08-2023 to 12-08-2023	Principles of modeling, UML Things – Structural, Behavioral, Grouping, Annotational.
	14-08-2023 to 19-08-2023	Class diagram, Object diagram, Use-Case diagram, Sequence diagram, Collaboration diagram.
	21-08-2023 to 26-08-2023	Statechart diagram, Activity diagram, Component diagram, Deployment diagram, UML Semantic Rules – Names, Scope, Visibility, Integrity, Execution.
	28-08-2023 to 31-08-2023	Mechanisms in the UML – Specifications, Adornments, Common Divisions, Extensibility Mechanisms.
September	01-09-2023 to 09-09-2023	Abstraction, Encapsulation, Modularity, Hierarchy, Typing, Concurrency, Persistence of objects.
	11-09-2023 to 16-09-2023	Purpose of modeling, Object & Class, Links & Associations, Generalization & Inheritance, Association Ends – Multiplicity.
	18-09-2023 to 23-09-2023	Role names, Ordering, Qualification, Aggregation, Link Attributes & Link class, Abstract class, Metadata, Constraints, Constructing class diagram.
	25-09-2023 to 30-09-2023	Event, State, Activity, Action, Transitions & Conditions, State diagrams, Nested state diagrams.
October	03-10-2023 to 07-10-2023	Signal generalization, concurrency, relationships between class and state models.
	09-10-2023 to 14-10-2023	Use case models, use case relationships, sequence models, procedural sequence models.
	16-10-2023 to 21-10-2023	Activity models, special constructs for activity models. System development stages.
	23-10-2023 to 28-10-2023	System conception, analysis, domain class model, domain state model, iterating the analysis.
	30-10-2023 to 31-10-2023	Application interaction model, application class model, application state model.
November	02-11-2023 to 04-11-2023	Adding operations estimating performance, make a reuse plan, organize the system into subsystem.
	17-11-2023 to 25-11-2023	Handling global resources, choosing software control strategies.
	27-11-2023 to 30-11-2023	Selecting an architect style, Class Design: bridging gap.
December	01-12-2023 to 02-12-2023	Realize use cases with operations, designing algorithms, design optimization.
	04-12-2023 to 06-12-2023	Adjustment of inheritance, organize classes & associations.

Lesson Plan

Session: 2023-24

Class: M.Sc.(Software) 1st Semester

Subject: Discrete Mathematical Structures

Paper: MS-15-14

Teacher Incharge: Ms. Poonam Bhatia

Month	Week	Topics
August	07-08-2023 to 12-08-23	Set Theory: Basic Set Theory, Operations on Sets, Algebra of Sets, Venn Diagrams.
	14-08-2023 to 19-08-23	Relations: Binary Relations, Complement of Relations, Inverse of Relations.
	21-08-2023 to 26-08-2023	Composite Relations, Properties, Equivalence, Partial Order and Total Order relations.
	28-08-2023 to 31-08-2023	Functions: Functions on Set, Domain, Co-Domain, Representation of Functions.
September	01-09-2023 to 09-09-2023	Types of Functions, Identity and Inverse of Functions, Composition of Functions
	11-09-2023 to 16-09-2023	Propositional Calculus: Propositional Logic, Equivalences, Predicates.
	18-09-2023 to 23-09-2023	Quantifiers, Nested Quantifiers, Rules of Inference , Normal Forms, Proofs Methods, Strategy.
	25-09-2023 to 30-09-2023	Counting: Pigeonhole Principle, Inclusion –Exclusion Principle, Permutations and Combinations, Binomial Coefficients, Counting Principles.
October	03-10-2023 to 07-10-2023	Advanced Counting Techniques: Recurrences Relations, solving Recurrence Relations.
	09-10-2023 to 14-10-2023	Divide and Conquer Algorithms and Recurrence Relations, Solution of Recurrence Relations by method of Generating Function.
	16-10-2023 to 21-10-2023	Lattices and Boolean Algebra: Lattices, Hasse Diagram, Principle of Duality, Types of Lattices, Special Lattices.
	23-10-2023 to 28-10-2023	Boolean Expression, Equivalence Circuits, Dual Normal Forms.
	30-10-2023 to 31-10-2023	Graphs: Introduction, Terminology, Types of Graphs, Representation of Graphs.
November	02-11-2023 to 04-11-2023	Paths and Circuits, Cut-set and Cut-Vertices, Graph Isomorphism, Homomorphism.
	06-11-2023 to 09-11-2023	Connectivity, Bipartite Graphs, Subgraphs, Operations on Graphs.
	17-11-2023 to 25-11-2023	Euler and Hamiltonian Graphs, Shortest Path Problem.
	27-11-2023 to 30-11-2023	Planer and Dual Graphs, Graph Coloring.
December	01-12-2023 to 02-12-2023	Tree: Tree Notations, Properties of Tree, Types of Tree Operations, Minimum Spanning Tree(MST).
	04-12-2023 to 06-12-2023	Revision

Lesson Plan

Session: 2023-24

Class: M.Sc.(S/W) 3rd Semester

Subject: Object Oriented Analysis and Design Using UML

Paper: MS-15-31

Teacher Incharge: Ms. Konika

Month	Week	Topics
August	07-08-2023 to 12-08-2023	Principles of modeling, UML Things – Structural, Behavioral, Grouping, Annotational Things
	14-08-2023 to 19-08-2023	Class diagram, Object diagram, Use-Case diagram, Sequencediagram, Collaboration diagram
	21-08-2023 to 26-08-2023	Statechart diagram, Activity diagram, Component diagram, Deployment diagram, UML Semantic Rules – Names, Scope, Visibility, Integrity, Execution
	28-08-2023 to 31-08-2023	Mechanisms in the UML – Specifications, Adornments, Common Divisions, Extensibility Mechanisms
September	01-09-2023 to 09-09-2023	Abstraction, Encapsulation, Modularity, Hierarchy, Typing, Concurrency, Persistence of objects
	11-09-2023 to 16-09-2023	Purpose of modeling, Object & Class, Links & Associations, Generalization & Inheritance, Association Ends – Multiplicity
	18-09-2023 to 23-09-2023	Role names, Ordering, Qualification, Aggregation, Link Attributes & Link class, Abstract class, Metadata, Constraints, Constructing class diagram
	25-09-2023 to 30-09-2023	Event, State, Activity, Action, Transitions & Conditions, State diagrams, Nested state diagrams
October	03-10-2023 to 07-10-2023	Signal generalization, concurrency, relationships between class and state models
	09-10-2023 to 14-10-2023	Use case models, use case relationships, sequence models, procedural sequence models,
	16-10-2023 to 21-10-2023	Activity models, special constructs for activity models. System development stages
	23-10-2023 to 28-10-2023	System conception, analysis, domain class model, domain state model, iterating the analysis
	30-10-2023 to 31-10-2023	Application interaction model, application class model, application state model,
November	02-11-2023 to 04-11-2023	Adding operations estimating performance, make a reuse plan, organize the system into subsystem,
	17-11-2023 to 25-11-2023	handling global resources, choosing software control strategies
	27-11-2023 to 30-11-2023	Selecting an architect style, Class Design: bridging gap
December	01-12-2023 to 02-12-2023	Realize use cases with operations, designing algorithms, design optimization,
	04-12-2023 to 06-12-2023	Adjustment of inheritance, organize classes & associations

Lesson Plan

Session:2023-24

Class: M.Sc. (S/W) 3rd Semester

Subject: Advanced Database Systems

Paper: MS 15-32

Teacher In-charge : Ms. Poonam Bhatia

Month	Week	Topic
August	07-08-2023 to 12-08-2023	Database System Concepts and Architecture: Three Schema Architecture, Data Independence
	14-08-2023 to 19-08-2023	ER Diagrams, Naming Conventions and Design Issues
	21-08-2023 to 26-08-23	Relational Model Constraints and Relational Database Schema, EER Model: Subclasses, super classes,
	28-08-2023 to 31-08-2023	Inheritance, Specialization and Generalization
September	01-09-2023 to 09-09-2023	Constraints and Characteristics of Specialization and Generalizations
	11-09-2023 to 16-09-2023	Object Model: Overview of Object-Oriented Concepts, Object Identity, Object Structure
	18-09-2023 to 23-09-2023	Type Constructors, Encapsulations of Operations, Methods and Persistence, Type Hierarchies and Inheritance, Complex Objects
	25-09-2023 to 30-09-2023	Query Processing and Optimization: Using Heuristics in Query Optimization, Semantic Query Optimization, Database tuning in Relational Systems
October	03-10-2023 to 07-10-2023	Database for Advance Applications: Architecture of Parallel Database, Distributed Database concepts
	09-10-2023 to 14-10-2023	Data Fragmentation, Replication and Allocation techniques
	16-10-2023 to 21-10-2023	Overview of Client Server Architecture, Active Database Concepts and Triggers, Temporal Databases
	23-10-2023 to 28-10-2023	Spatial and Multimedia databases, Deductive Databases, XML Schema, Documents and Databases
	30-10-2023 to 31-10-2023	Principles of Big Data: Ontologies and Semantics, Classifications
November	02-11-2023 to 04-11-2023	The simplest of Ontologies, Ontologies,
	06-11-2023 to 09-11-2023	Classes with multiple Parents, Choosing a class Model
	17-11-2023 to 25-11-2023	Data Integration and Software Interoperability
	27-11-2023 to 30-11-2023	Versioning and Compliance Issues,
December	01-12-2023 to 02-12-2023	Stepwise Approach to Big Data Analysis, Failures and Legalities
	04-12-2023 to 06-12-2023	Revision

Lesson Plan

Session: 2023-24

Class: M.Sc.(S/W) 3rd Semester

Subject: Computer Networks

Paper: MS-15-33

Teacher Incharge: Ms. Rita

Month	Week	Topics
August	07-08-2023 to 12-08-2023	Introduction to Computer Networks and its uses, Network categorization and Hardware Topologies; Network Software: Protocols, Services, Network Architecture, Design issues for the layers
	14-08-2023 to 19-08-2023	OSI Reference model, TCP/IP Reference model, Comparison of OSI and TCP/IP Models
	21-08-2023 to 26-08-2023	Introduction to Example Networks: Internet, ISDN, X.25, Frame Relay, ATM, Data Communication Model, Digital and Analog data and signals
	28-08-2023 to 31-08-2023	Asynchronous and Synchronous transmission; bit rate, baud, bandwidth, Transmission impairment
September	01-09-2023 to 09-09-2023	Channel Capacity; Guided Transmission Media; Wireless transmission; Satellite communication, Switching; Multiplexing
	11-09-2023 to 16-09-2023	Spread Spectrum; local loop; Modems and ADSL, Internet over Cable; ADSL Versus Cable; The Mobile Telephone System
	18-09-2023 to 23-09-2023	Encoding: NRZ, NRZ-I, Manchester and Differential Manchester encoding, Data Link Layer Design issues; Framing, Error Detection and Correction
	25-09-2023 to 30-09-2023	Flow Control: Sliding Window Protocols; Medium Access Control: Aloha ,CSMA protocols, Collision free protocols, Limited Contention Protocols
October	03-10-2023 to 07-10-2023	Wavelength Division Multiple access protocol, Wireless LAN Protocol: MACA
	09-10-2023 to 14-10-2023	High Speed LANs; Ethernet LAN, Fast Ethernet, Gigabit Ethernet
	16-10-2023 to 21-10-2023	Binary Exponential Backoff algorithm; Token Ring and FDDI;
	23-10-2023 to 28-10-2023	Introduction to Wireless LANs ,Network Layer Design issues , Virtual Circuit and Datagram Subnet
	30-10-2023 to 31-10-2023	Routing Algorithms: Optimality principle, Shortest path Routing, Flooding
November	02-11-2023 to 04-11-2023	Distance Vector Routing, Link State Routing
	06-11-2023 to 09-11-2023	Hierarchical Routing, Broadcast and Multi Cast Routing, Routing for Mobile hosts
	17-11-2023 to 25-11-2023	Congestion Control Algorithms: General Principals; Congestion control in Virtual – Circuit Subnets
	27-11-2023 to 30-11-2023	Congestion Control in Datagram Subnets: Choke packets, Load Shedding; Random Early Detection
December	01-12-2023 to 02-12-2023	Jitter Control; Quality of Service: Over provisioning, Buffering, Traffic Shaping
	04-12-2023 to 06-12-2023	Leaky bucket, token bucket, Resource Reservation, Admission Control, Packet Scheduling

Lesson Plan

Session: 2023-24

Class: M.Sc.(Software)3rd Semester

Subject: Advanced Operating System

Paper: MS-15-34

Teacher Incharge: Ms. Heena Grover

Month	Week	Topics
August	07-08-2023 to 12-08-2023	Introduction to Distributed Systems, Hardware Concepts, Software Concepts.
	14-08-2023 to 19-08-2023	Design Issues, Communication in distributed systems, layered protocols, ATM networks.
	21-08-2023 to 26-08-2023	The client server model, Remote procedure call, group communication.
	28-08-2023 to 31-08-2023	Synchronization in distributed system ,Clock Synchronization, mutual exclusion.
September	01-09-2023 to 09-09-2023	Election Algorithm ,Atomic Transactions , Deadlock in Distributed system.
	11-09-2023 to 16-09-2023	Process and Processors in distributed system threads, system models, processors allocation.
	18-09-2023 to 23-09-2023	Scheduling in distributed system, fault tolerance,Introduction of real time distributed system.
	25-09-2023 to 30-09-2023	Real time distributed system, Distributed file systems, distributed file system design.
October	03-10-2023 to 07-10-2023	Distributed file system implementation, Trends in distributed file system ,Introduction Of Distributed Shared Memory , Consistency model.
	09-10-2023 to 14-10-2023	Page based distributed shared memory.
	16-10-2023 to 21-10-2023	Variable distributed shared memory ,Object based distributed shared memory.
	23-10-2023 to 28-10-2023	Introduction Of Real Time And Mobile Operating Systems.
	30-10-2023 to 31-10-2023	Basic Model Of Real Time Systems, Characteristics of Real Time Systems.
November	02-11-2023 to 04-11-2023	Applications Of Real time Systems, Real Time Task Scheduling.
	17-11-2023 to 25-11-2023	Handling resource Sharing, Mobile Operating Systems, Micro Kernel Design, Client Server Resource Access.
	27-11-2023 to 30-11-2023	Processes And Threads, Revision.
December	01-12-2023 to 02-12-2023	Memory Management, Revision.
	04-12-2023 to 06-12-2023	Tests and Revisions

Lesson Plan

Session:2023-2024

Class: BBA 3rd Sem.

Subject: Fundamentals of DBMS and ORACLE

Paper: BBA-205

Teacher Incharge : Ms. Kajal Rani

Month	Week	Topic
August	01-08-2023 to 05-08-2023	Traditional File oriented approach, Disadvantage of Simple File System
	07-08-2023 to 12-08-2023	Database Approach , Advantages of Database Approach
	14-08-2023 to 19-08-2023	Database Management System (DBMS),Components of DBMS Environment , Advantages and Disadvantages of DBMS
	21-08-2023 to 26-08-2023	DBMS Architecture ,Data Independence
	28-08-2023 to 02-09-2023	Data Models , Keys
September	04-09-2023 to 09-09-2023	Computers: Introduction ,Use of Computer in business, Advantages and disadvantages
	11-09-2023 to 16-09-2023	Computerized System for Inventory Control, Payroll order, banking and Accounting
	18-09-2023 to 23-09-2023	SQL Using ORACLE :Introduction to SQL , Components of SQL :DDL,DML & DCL
	25-09-2023 to 30-09-2023	Data types in SQL , DDL Commands :Create , Alter ,Drop , Truncate, Creating Queries with DDL
October	03-10-2023 to 07-10-2023	Commands and Implementing constraints, DML Commands :Insert, Delete
	9-10-2023 to 14-10-2023	DML Commands : Update, Select ,Select with Group By and Order By
	16-10-2023 to 21-10-2023	Creating queries with DML Commands,
	23-10-2023 to 28-10-2023	Operators :Set and Logical
	30-10-2023 to 31-10-2023	SQL Functions: Numeric Functions ,
November	02-11-2023 to 04-11-2023	Scalar Functions and Group Functions
	06-11-2023 to 09-11-2023	Report Writing :Commands,
	17-11-2023 to 24-11-2023	Advantages of Report Writing

Lesson Plan

Session: 2023-2024

Class: B.Com (C. A.) 5th Sem.

Subject: Web Technology

Paper: BC (Voc)-505

Teacher Incharge : Ms. Kajal Rani

Month	Week	Topic
August	01-08-2023 to 05-08-2023	Internet basic - introduction to HTML
	07-08-2023 to 12-08-2023	HTML tags- list - creating table
	14-08-2023 to 19-08-2023	HTML- linking document frames - graphics to HTML doc
	21-08-2023 to 26-08-2023	Style sheet basic - add style to document , Creating style sheet rules
	28-08-2023 to 02-09-2023	Style sheet properties-font-text-list- color and background
September	04-09-2023 to 09-09-2023	Color-box-display properties
	11-09-2023 to 16-09-2023	Introduction to JavaScript- advantage of JavaScript,JavaScript syntax
	18-09-2023 to 23-09-2023	JavaScript- data type ,variable,
	25-09-2023 to 30-09-2023	Array , operator and expression
October	03-10-2023 to 07-10-2023	JavaScript- looping constructor,
	9-10-2023 to 14-10-2023	Function, dialog box.
	16-10-2023 to 21-10-2023	JavaScript document object model – introduction to object in HTML
	23-10-2023 to 28-10-2023	Event handling , window object
	30-10-2023 to 31-10-2023	Document object ,Form object
November	02-11-2023 to 04-11-2023	Navigator object screen object
	06-11-2023 to 09-11-2023	Build in object ,user defined object
	17-11-2023 to 24-11-2023	Cookies in JavaScript

Lesson Plan

Session: 2023-2024

Class: B.Com. (C. A.) 3rd Sem.

Subject: Data Structure

Paper: BC (Voc)-305

Teacher Incharge : Ms. Kajal Rani

Month	Week	Topic
August	01-08-2023 to 05-08-2023	Data Structure, Classifications of Data structures
	07-08-2023 to 12-08-2023	Linear and Least Structure
	14-08-2023 to 19-08-2023	Array definition, Types of Array
	21-08-2023 to 26-08-2023	Address Calculation in Array
	28-08-2023 to 02-09-2023	Stack : Push /pop algorithms,
September	04-09-2023 to 09-09-2023	Applications of Stack
	11-09-2023 to 16-09-2023	Queue: Insert /Delete algorithms
	18-09-2023 to 23-09-2023	Double and Circular queue Concept
	25-09-2023 to 30-09-2023	Single Linked list, Linked List: Algorithms,
October	03-10-2023 to 07-10-2023	Concept of Double Linked list, Circular Linked List
	9-10-2023 to 14-10-2023	Tree- Binary Tree, Complete Binary Tree
	16-10-2023 to 21-10-2023	Binary Search Tree, AVL Tree,
	23-10-2023 to 28-10-2023	M-Way Search Tree
	30-10-2023 to 31-10-2023	B-tree, Insertion,
November	02-11-2023 to 04-11-2023	Applications of B-tree,
	06-11-2023 to 09-11-2023	Files: serial, Sequential
	17-11-2023 to 24-11-2023	Files: Indexed, direct, multi list

Lesson Plan

Session: 2023-24

Class: B.Com(Comp. App.)-Vth Semester

Subject: System Analysis & Design

Paper: BC(Voc)-506

Teacher Incharge: Ms. Ramanpreet Kaur

Month	Week	Topics
August	01-08-2023 to 05-08-2023	SAD: Definition of system
	07-08-2023 to 12-08-2023	Characteristics Elements
	14-08-2023 to 19-08-2023	Types of system
	21-08-2023 to 26-08-2023	System development life cycle
	28-08-2023 to 02-09-2023	Techno-economic feasibility
September	04-09-2023 to 09-09-2023	Role of system analyst
	11-09-2023 to 16-09-2023	The process of logical and physical design
	18-09-2023 to 23-09-2023	Form design
	25-09-2023 to 30-09-2023	input form design
October	03-10-2023 to 07-10-2023	Output form design
	9-10-2023 to 14-10-2023	System testing
	16-10-2023 to 21-10-2023	Auditing
	23-10-2023 to 28-10-2023	Revision
	30-10-2023 to 31-10-2023	System maintenance
November	02-11-2023 to 04-11-2023	Threats to security
	06-11-2023 to 09-11-2023	Control measures
	17-11-2023 to 24-11-2023	Revision

Lesson Plan

Session: 2023-2024

Class: B.Com. (voc)(Comp. App.)3rd Semester

Subject: Fundamentals of database management system

Paper: BC (voc)-306

Teacher Incharge : Ms. Ramanpreet Kaur

Month	Week	Topic
August	01-08-2023 to 05-08-2023	Overview of Data Management System: element of data-base system
	07-08-2023 to 12-08-2023	DBMS and its architecture , advantages of DBMS
	14-08-2023 to 19-08-2023	Types of database advantages of DBMS, users, role of database administrator.
	21-08-2023 to 26-08-2023	Brief overview of hierarchical and network model
September	28-08-2023 to 02-09-2023	Detailed study of relational model (relations, properties of relational model, keys and integrity rules).
	04-09-2023 to 09-09-2023	E-R diagrams , Normalization: concepts and update anomalies
	11-09-2023 to 16-09-2023	Functional and transitive dependencies
	18-09-2023 to 23-09-2023	Normal forms (1NF, 2NF, 3NF and BCNF)
	25-09-2023 to 30-09-2023	Database objects: terminologies- tables, views, materialized views, indexes , triggers; synonyms
October	03-10-2023 to 07-10-2023	Database objects: functions, procedures and packages; create operator
	9-10-2023 to 14-10-2023	Database objects: create directory, create library, database links
	16-10-2023 to 21-10-2023	SQL: methods to access SQL plan; DDL, describe command
	23-10-2023 to 28-10-2023	SQL :DML, joining tables; break clause
	30-10-2023 to 31-10-2023	Oracle service: terminology; architecture and background support processes,
November	02-11-2023 to 04-11-2023	Role of database administrator
	06-11-2023 to 09-11-2023	Applications of ORACLE in business
	17-11-2023 to 24-11-2023	Revision

Lesson Plan

Session:-2023-2024

Class: - M.Com

Subject: -Computer Application in Business

Paper: - 301

Teacher Incharge:-Ms. Ramanpreet Kaur

Month	Week	Topic
August	01-08-2023 to 05-08-2023	Computer System: Meaning, scope of computer system
	07-08-2023 to 12-08-2023	Types of computer system
	14-08-2023 to 19-08-2023	Basic computer organization:- Input Unit
	21-08-2023 to 26-08-2023	Output Unit, Central Processing Unit
	28-08-2023 to 02-09-2023	Storage devices, Introduction to software; System software
September	04-09-2023 to 09-09-2023	Operating system, user interface and its types
	11-09-2023 to 16-09-2023	Application software - word processing, spreadsheets
	18-09-2023 to 23-09-2023	Introduction to databases, tables, queries, reports and form generation
	25-09-2023 to 30-09-2023	Fuzzy Logic, etc, Information Technology in Business
October	03-10-2023 to 07-10-2023	Concept of information technology; Local Area Network
	9-10-2023 to 14-10-2023	Media & topologies and Wide Area Networks;
	16-10-2023 to 21-10-2023	Electronic data processing
	23-10-2023 to 28-10-2023	Intranet and extranet, concept and evolution;
	30-10-2023 to 31-10-2023	World Wide Web; Multimedia technologies
November	02-11-2023 to 04-11-2023	Video conferencing; Broadband networks
	06-11-2023 to 09-11-2023	Planning and designing web pages
	17-11-2023 to 24-11-2023	Revision

Lesson Plan

Session: 2023-24

Class: B.Sc. MM 1stsem

Subject: Arts & Creativity

Paper: B23-MMT-101(Major)

Teacher Incharge: Ms. Taranjeet

Month	Week	Topics
July	21.07.23 to 31.07.23	Art:Meaning and Definition of Art
August	1.08.23 to 05.08.23	Indian Aesthetics:Ras,Bhav,Shadaang
	07.08.23 to 12.08.23	Auchitya,Alankaar,Rasa, Nispatti
	14.08.23 to 19.08.23	Elements of Art:Point,Line,Form,Shape,Space,Colour,Texture,Value
	21.08.23 to 26.08.23	Understanding of light and Shadow
	28.08.23 to 31.08.23	Perception of color and color wheel
September	01.09.23 to 09.09.23	Principles of Art: Balance,Rhythm,Harmony,Contrast,Proportion,Dominance
	11.09.23 to 16.09.23	Unity Perspectives on the Creative Process Landscapes and Composition
	18.09.23 to 23.09.23	Techniques of different Art styles:Watercolor,Acrylicpainting,pencilColor,spraypainting,pastel Color
	25.09.23 to 30.09.23	Design: Concept,2D shape design, Character Designing:Creating appealing characters with a distinctive personality
October	03.10.23 to 07-10.23	Creating a range of characters that work together as a”Cast”
	09.10.23 to 14.10.23	Typography and its types
	16.10.23 to 21.10.23	Calligraphy
	23.10.23 to 28.10.23	Digital Tools:Overview of photoshop
	30.10.23 to 31.10.23	Interface Understanding of Pen tool,Brush tool
November	02.11.23 to 04.11.23	Brush panel Shading and Painting techniques in photoshop
	06.11.23 to 09.11.23	Use of Opacity,flow and Pattern
	17.11.23 to 24.11.23	Digital Painting

Lesson Plan

Session: 2023-24

Class: B.Sc. MM 1stsem

Subject: Introduction to C Programming

Paper: B23-MMT-102(Major)

Teacher Incharge: Dr.RituSoni

Month	Week	Topics
July	21.07.23 to 31.07.23	Orientation
August	1.08.23 to 05.08.23	Basic of Computers & Problem solving
	07.08.23 to 12.08.23	Overview of C
	14.08.23 to 19.08.23	Input output functions; Header Files
	21.08.23 to 26.08.23	Operators & Expression
	28.08.23 to 31.08.23	Sequential programing
September	01.09.23 to 09.09.23	Decision making – if, block if ,nested if
	11.09.23 to 16.09.23	Decision making – switch, Continue,
	18.09.23 to 23.09.23	Program practice & doubt clearing ,loops
	25.09.23 to 30.09.23	loops
October	03.10.23 to 07-10.23	1 D arrays
	09.10.23 to 14.10.23	String
	16.10.23 to 21.10.23	2 D arrays
	23.10.23 to 28.10.23	functions
	30.10.23 to 31.10.23	Functions
November	02.11.23 to 04.11.23	Pointers
	06.11.23 to 09.11.23	storage
	17.11.23 to 24.11.23	Decision making:break,goto

Lesson Plan

Session: 2023-24

Class: B.Sc. MM 1stsem

Subject: Fundamentals of Multimedia

Paper: B23-MMT-103(Major)

Teacher Incharge: Ms. Riya Chauhan

Month	Week	Topics
July	21.07.23 to 31.07.23	Introduction to multimedia
August	1.08.23 to 05.08.23	Key elements of multimedia: text, audio, video, graphics, animation
	07.08.23 to 12.08.23	Hardware requirements for multimedia
	14.08.23 to 19.08.23	Software requirements for multimedia
	21.08.23 to 26.08.23	Multimedia equipments
	28.08.23 to 31.08.23	Applications of multimedia
September	01.09.23 to 09.09.23	Desktop publishing
	11.09.23 to 16.09.23	Basic design Concepts
	18.09.23 to 23.09.23	User interface design
	25.09.23 to 30.09.23	Hypermedia authoring
October	03.10.23 to 07-10.23	Concepts Various file formats of text, audio, video
	09.10.23 to 14.10.23	Concepts Various file formats of graphics and animation
	16.10.23 to 21.10.23	Creating web based multimedia
	23.10.23 to 28.10.23	Introduction to animation
	30.10.23 to 31.10.23	Basic audio integration technique
November	02.11.23 to 04.11.23	Basic video integration technique
	06.11.23 to 09.11.23	Animation effects
	17.11.23 to 24.11.23	Production process of animation

Lesson Plan

Session: 2023-24

Class: B.Sc. MM 1stsem

Subject: Computer Application

Paper: B23-MMT-104(Minor)

Teacher Incharge: Ms. Manju

Month	Week	Topics
July	21.07.23 to 31.07.23	Computer- Origin, Evolution
August	1.08.23 to 05.08.23	Generation of Computer
	07.08.23 to 12.08.23	Characteristics of Computer
	14.08.23 to 19.08.23	Type of Computer
	21.08.23 to 26.08.23	Block Diagram of Computer
	28.08.23 to 31.08.23	Basic Components of a Computer
September	01.09.23 to 09.09.23	Input Devices
	11.09.23 to 16.09.23	Output Devices
	18.09.23 to 23.09.23	Storage Organization -Primary Memory
	25.09.23 to 30.09.23	Secondary Memory
October	03.10.23 to 07-10.23	Introduction to Software ,Type of Software System Software ,Application Software
	09.10.23 to 14.10.23	Operating System and its Function , Introduction of MS window , and its Various Versions
	16.10.23 to 21.10.23	Introduction of MS Word and its Uses, Various Menus, Toolbars & Buttons
	23.10.23 to 28.10.23	Paragraph and page Formatting
	30.10.23 to 31.10.23	Creation & Working With Tables
November	02.11.23 to 04.11.23	Introduction of MS Power point and its uses
	06.11.23 to 09.11.23	Creating a New Presentation
	17.11.23 to 24.11.23	Mail Merge

\Lesson Plan

Session: 2023-24

Class: B.Sc. MM 1stsem

Subject: : Environmental Studies

Paper: VAC

Teacher Incharge: Dr. Neena Goyal

Month	Week	Topics
July	21.07.23 to 31.07.23	Computer- Origin, Evolution
August	1.08.23 to 05.08.23	Introduction to Environment studies: Multidisciplinary nature of environmental studies, Scope and Importance
	07.08.23 to 12.08.23	Natural Resources: Renewable and nonrenewable Resources. Forest resources
	14.08.23 to 19.08.23	Natural Resources: Energy: Renewable and nonrenewable Resources
	21.08.23 to 26.08.23	Natural Resources: Water resource: Surface and Underground Water, exploitation of surface and ground water.
	28.08.23 to 31.08.23	Land as an Important resource, Dland degradation, soil erosion and its conservation
September	01.09.23 to 09.09.23	How to reduce soil erosion: different methods of cropping, afforestation
	11.09.23 to 16.09.23	Drip irrigation, crop rotation, agroforestry.
	18.09.23 to 23.09.23	Minning ,building manufacturing, industries, dams formation main causes of landslides.
	25.09.23 to 30.09.23	Environment and Human health and welfare.
October	03.10.23 to 07-10.23	Impact of Environment on population growth
	09.10.23 to 14.10.23	Biodiversity and conservation: Definition , types, Threats to biodiversity
	16.10.23 to 21.10.23	Habitat loss, poaching of wildlife, man wildlife conflicts, biological invasions
	23.10.23 to 28.10.23	Conservation of biodiversity in situ and ex-situ , Ecosystem and biodiversity services, Ecological, economic, social, ethical. aesthetic and informational values.
	30.10.23 to 31.10.23	Environmental pollution: Air, Water,soil and noise. Solid waste management
November	02.11.23 to 04.11.23	Ozone layer depletion, acid rain and impacts on human communities and agriculture
	06.11.23 to 09.11.23	Environment Policies and Practices: Environmental Laws
	17.11.23to24.11.23	Environment Protection Act1986, Air pollution act,1981, Water pollution control act , 1974

Lesson Plan

Session: 2023-24

Class: B.Sc. MM 1stsem

Subject: :: English Lang and Comm. Skills

Paper: : B23- AEC-1

Teacher Incharge: :Dr.Priyanka

Month	Week	Topics
July	21.07.23 to 31.07.23	Introduction to the paper, Introduction to communication and importance of communication
August	1.08.23 to 05.08.23	Introduction to Theory of communication
	07.08.23 to 12.08.23	Different models of communication
	14.08.23 to 19.08.23	Introduction to Types and forms of communication, oral and written communication including advantages and disadvantages of oral and written communication
	21.08.23 to 26.08.23	Introduction to Non-verbal communication
	28.08.23 to 31.08.23	Including advantages and disadvantages of oral and written communication
September	01.09.23 to 09.09.23	Including advantage and disadvantage of to Non-verbal communication
	11.09.23 to 16.09.23	Formal and informal communication network including advantages and disadvantages
	18.09.23 to 23.09.23	Discussing various ways for Introduction to Self and Peer Introduction
	25.09.23 to 30.09.23	Making requests, Offering help
October	03.10.23 to 07-10.23	Making Enquiries and Seeking Permission
	09.10.23 to 14.10.23	Practice of dialogues
	16.10.23 to 21.10.23	Explanation of Importance of Listening Skills
	23.10.23 to 28.10.23	Types and Barriers, Discussion of important question
	30.10.23 to 31.10.23	Explanation of Note Taking Skills, benefits and tips for Note Taking
November	02.11.23 to 04.11.23	Discussion and Practice of various parts of speech
	06.11.23 to 09.11.23	Discussion and practice of various parts of speech
	17.11.23 to 24.11.23	Congratulating

Lesson Plan

Session: 2023-24

Class: B.Sc. MM 1stsem

Subject: Office & Spreadsheet Tools Learning

Paper: B-SEC-101

Teacher Incharge: :Ms.Neetu

Month	Week	Topics
July	21.07.23 to 31.07.23	Definition, Function & Types Of Operating System
August	1.08.23 to 05.08.23	GUI&CUI, Computer Icons, Desktop, Taskbar. Using Menu and Menu Selection.
	07.08.23 to 12.08.23	Popular Operating System.
	14.08.23 to 19.08.23	Managing Files and Folders, Control Panel- Display Properties. Control Panel- Display Properties.
	21.08.23 to 26.08.23	Add/Remove Software and Hardware, creating shortcuts, Basics Of O.S Setup, common Utilities.
	28.08.23 to 31.08.23	Introduction to Word Processing, Menus, Creating Editing and Formatting Document.
September	01.09.23 to 09.09.23	Spellchecking, printing, Table, Word Arts,
	11.09.23 to 16.09.23	Macros, Mail Merge, Hyperlinks.
	18.09.23 to 23.09.23	Bookmarks, Searching For Text, Modifying Page Setup.
	25.09.23 to 30.09.23	Applying Document Themes, Applying Document Style Set,
October	03.10.23 to 07-10.23	Inserting Headers and Footers, Protect a Documents.
	09.10.23 to 14.10.23	Track Changes, and Mange, Adding Comments, Managing Comments.
	16.10.23 to 21.10.23	Elements of Electronic Spread Sheet, Application, Creating and Opening of Spread Sheet.
	23.10.23 to 28.10.23	Mathematical, Statistical, & Financial Function, Drawing
	30.10.23 to 31.10.23	Different Types Of charts, sort.
November	02.11.23 to 04.11.23	Filter Data, Creating Modifying & Enhancing a Presentation
	06.11.23 to 09.11.23	Using Sound, Animation, Design Templates in Presentation,
	17.11.23 to 24.11.23	Hyperlinks and Action Buttons, Proofing & Printing

Lesson Plan

Session: 2023-24

Class: B.Sc. MM 1stsem

Subject: MDC

Paper: B23-FTA-104

Teacher Incharge: Ms.Shweta

Month	Week	Topics
July	21.07.23 to 31.07.23	Introduction to Elements of Art
August	1.08.23 to 05.08.23	Colour ,its types
	07.08.23 to 12.08.23	Color theory
	14.08.23 to 19.08.23	Study of hue,tone, tint,value
	21.08.23 to 26.08.23	Study of intensity,shade
	28.08.23 to 31.08.23	Definition of space and its types
September	01.09.23 to 09.09.23	Understanding two dimensional space from surroundings
	11.09.23to 16.09.23	Understanding three dimensional space from surroundings
	18.09.23 to 23.09.23	Understanding Texture and experimenting various textures
	25.09.23 to 30.09.23	Line and its types-horizontal,vertical
October	03.10.23 to 07-10.23	Line and its types-diagonal,zigzag
	09.10.23 to 14.10.23	Define Chiaroscuro
	16.10.23 to 21.10.23	Introduction to Principles of art
	23.10.23 to 28.10.23	Introduction to Principles of art:Balance, Emphasis
	30.10.23 to 31.10.23	Introduction to Principles of art: Proportion,Repetition
November	02.11.23 to 04.11.23	Introduction to Principles of art:Rhythm,Pattern
	06.11.23 to 09.11.23	Introduction to Principles of art:Movement
	17.11.23 to 24.11.23	Introduction to Principles of art:Unity

Lesson Plan

Session: 2023-24

Class: B.Sc MM- 3rd Semester

Subject: Content Writing

Paper: 301

Teacher Incharge: Ms. Riya Chauhan

Month	Week	Topics
August	01-08-23 to 05-08-23	Writing: origin, role and scope Language, dialects and script
	07-08-23 to 12-08-23	Analytical writing & descriptive writing Writing self-expressions, poetry, sher-o-shayari Essentials of good writing
	14-08-23 to 19-08-23	Writing for formal communication
	21-08-23 to 26-08-23	Creating user interface
	28-08-23 to 31-08-23	Writing for radio and television voice-overs
September	01-09-23 to 09-09-23	Writing news and commercials
	11-09-23 to 16-09-23	Writing for computer aided courseware
	18-09-23 to 23-09-23	Writing for dynamic website Features of writing for web
	25-09-23 to 30-09-23	Using colours, images, audio and hyperlinks
October	03-10-23 to 07-10-23	Researching online resources
	09-10-23 to 14-10-23	Issues of copyright
	16-10-23 to 21-10-23	Writing fiction and non-fiction
	23-10-23 to 28-10-23	Types of screenplay- Proposal script, shooting script
	30-10-23 to 31-10-23	Types of screenplay- post-production script
November	02-11-23 to 4-11-23	Layout of a story: theme, characters, situation, background
	06-11-23 to 09-11-23	Linking and developing a screenplay
	17-11-23 to 24-11-23	Storyboarding

Lesson Plan

Session: 2023-24

Class: B.Sc MM- 3rd Semester

Subject: Photography

Paper: 302

Teacher Incharge: Ms. Riya Chauhan

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction to Photography: History of Photography, Evolution of Photography
	07-08-23 to 12-08-23	Role of Photography in Visual Communication
	14-08-23 to 19-08-23	Camera Basic: Analog and Digital Camera, Types of Digital Camera
	21-08-23 to 26-08-23	Essentials components of digital camera: Focus, Lens, Shutter, Aperture, Sensors, Exposure Basics
	28-08-23 to 31-08-23	Types of Photography: Framing and Camera Setting for various types of Photography
September	01-09-23 to 09-09-23	Exercise based on different types of photographs: Candid, Street, News Photography, portraits, product, fashion, wild life, sports etc.
	11-09-23 to 16-09-23	Exercise based on experimentation with Metering
	18-09-23 to 23-09-23	AEB
	25-09-23 to 30-09-23	Shooting modes
October	03-10-23 to 07-10-23	Focus Modes, White Balancing
	09-10-23 to 14-10-23	Camera Angles
	16-10-23 to 21-10-23	Camera Movements and Lightning
	23-10-23 to 28-10-23	Focal Length and Filters
	30-10-23 to 31-10-23	Post production: Camera Raw Editing with Photoshop
November	02-11-23 to 4-11-23	Do's and Don'ts of Photography editing,
	06-11-23 to 09-11-23	Photo Editing Techniques: Clipping, cropping, masking
	17-11-23 to 24-11-23	repairing, sharpening, blurring colorizing, saturation control, watermarks

Lesson Plan

Session: 2023-24

Class: B.Sc MM- 3rd Semester

Subject: Animation Techniques

Paper: 303

Teacher Incharge: Ms. Riya Chauhan

Month	Week	Topics
August	01-08-23 to 05-08-23	Animation: origin Animation: Growth
	07-08-23 to 12-08-23	Basic principle of animation
	14-08-23 to 19-08-23	Animation: meaning
	21-08-23 to 26-08-23	Animation: Definition and types
	28-08-23 to 31-08-23	Main elements of animation
September	01-09-23 to 09-09-23	Basic computer graphics algorithm
	11-09-23 to 16-09-23	2D and 3D coordinated system
	18-09-23 to 23-09-23	Reflection Matrix
	25-09-23 to 30-09-23	Rotation matrix
October	03-10-23 to 07-10-23	Motion Control
	09-10-23 to 14-10-23	Transparency
	16-10-23 to 21-10-23	Texture, shadow
	23-10-23 to 28-10-23	Role of computers in animation
	30-10-23 to 31-10-23	Animation: Growth
November	02-11-23 to 04-11-23	anti hashing,
	06-11-23 to 09-11-23	Automatic motion control: mechanics
	17-11-23 to 24-11-23	Automatic motion control: robotics, kinematics

Lesson Plan

Session: 2023-24

Class: B.Sc MM- 3rd Semester

Subject: Website designing using Dreamweaver

Paper: 304

Teacher Incharge: Ms. Niharika

Month	Week	Topic
August	01-08-23 to 05-08-23	The basic Dreamweaver environment, creating a site profile, the importance of a site profile
	07-08-23 to 12-08-23	Organizing the files & folders, folder and file naming rules
	14-08-23 to 19-08-23	Creating folders and webpage files , the implementation / coding process.
	21-08-23 to 26-08-23	Opening a file for editing, titling pages, creating divisions
	28-08-23 to 31-08-23	Adding headings, Paragraph vs. line breaks, tags: logical vs. physical
September	01-09-23 to 09-09-23	lists, linking to other websites, linking to the user files, inserting images on web pages
	11-09-23 to 16-09-23	Changing images into links, adding an Email link. CSS design
	18-09-23 to 23-09-23	Applying DIVs, working of style sheet, starting a style sheet, font
	25-09-23 to 30-09-23	margins, link, colors, stylish headlines, paragraphs
October	03-10-23 to 07-10-23	Indentation, types of images, organizing images, inserting and formatting tables.
	09-10-23 to 14-10-23	Form elements, head elements, page templates
	16-10-23 to 21-10-23	Form objects, accessible forms, page layers,
	23-10-23 to 28-10-23	Working with layers, flash elements
	30-10-23 to 31-10-23	Multimedia contents, Browser
November	02-11-23 to 04-11-23	Compatibility testing
	06-11-23 to 09-11-23	Uploading the website on web, testing website online,
	17-11-23 to 24-11-23	Uploading changes, maintaining website

Lesson Plan

Session: 2023-2024

Class: B.Sc MM- 5th Semester

Subject: Application of multimedia

Paper: 501

Teacher Incharge: Ms. Amrita

Month	Week	Topic
August	01-08-23 to 05-08-23	Multimedia based presentation Concept of interactive learning material
	07-08-23 to 12-08-23	Multimedia networks: Retail and banking business
	14-08-23 to 19-08-23	Application in interactive television, Multimedia kiosks
	21-08-23 to 26-08-23	Multimedia use in training and education
	28-08-23 to 31-08-23	Multimedia in distance learning
September	01-09-23 to 09-09-23	Multimedia for marketing
	11-09-23 to 16-09-23	Multimedia for advertising
	18-09-23 to 23-09-23	Multimedia use in museum and galleries
	25-09-23 to 30-09-23	Concept generation of multimedia project
October	03-10-23 to 07-10-23	Process of multimedia production
	09-10-23 to 14-10-23	Stages of multimedia production
	16-10-23 to 21-10-23	Multimedia production team members
	23-10-23 to 28-10-23	Implementation and distribution of multimedia products
	30-10-23 to 31-10-23	Multimedia messaging service
November	02-11-23 to 04-11-23	Gaming consoles and LAN gaming
	06-11-23 to 09-11-23	Multimedia in medical science education
	17-11-23 to 24-11-23	Multimedia in cinema production

Lesson Plan

Session: 2023-24

Class: B.Sc MM- 5th Semester

Subject: Communication Technologies

Paper: 502

Teacher Incharge: Dr.Ritu Soni

Month	Week	Topics
August	01-08-23 to 05-08-23	Orientation
	07-08-23 to 12-08-23	Introduction to Communication technologies
	14-08-23 to 19-08-23	Printing, Photography, Audiography
	21-08-23 to 26-08-23	Videography, Cinematography
	28-08-23 to 31-08-23	Communication satellites
September	01-09-23 to 09-09-23	The process of radio, television and web broadcasting
	11-09-23 to 16-09-23	Wireless Networks.
	18-09-23 to 23-09-23	Wireless Networks
	25-09-23 to 30-09-23	Bluetooth
October	03-10-23 to 07-10-23	Radio Communication
	09-10-23 to 14-10-23	Radio Communication, adhoc Networks
	16-10-23 to 21-10-23	Television standards
	23-10-23 to 28-10-23	Interactive television
	30-10-23 to 31-10-23	Display technology: CRT, plasma, LCD & LED
November	02-11-23 to 4-11-23	Direct to Home (DTH).
	06-11-23 to 09-11-23	Fiber optics
	17-11-23 to 24-11-23	Access System, Pay per view system

Lesson Plan

Session: 2023-24

Class: B.Sc. MM- 5th Semester

Subject: Web Technologies

Paper: 503

Teacher Incharge: Ms. Neetu

Month	Week	Topics
August	01-08-23 to 05-08-23	Planning and designing a website, maintaining view state, connecting and hosting database, choosing a web server for hosting,
	07-08-23 to 12-08-23	DNS, configuration and optimization settings. Promotion and maintenance of website ,Uniform Resource Locators (URLs) & Web Browsers
	14-08-23 to 19-08-23	Semantic Web applications, Semantic Search, e-learning.
	21-08-23 to 26-08-23	Semantic Bioinformatics. Knowledge Base, XML Based Web services.
	28-08-23 to 31-08-23	Creating OWL-S Ontology for Web Services, Semantic.
September	01-09-23 to 09-09-23	Search Technology, Web Search Agents and Semantic Methods
	11-09-23 to 16-09-23	Web technologies: Terminology & Applications; Active X Components.
	18-09-23 to 23-09-23	XML, Chat applets, Ajax, Servlet
	25-09-23 to 30-09-23	Java Beans, J2ME.
October	03-10-23 to 07-10-23	SQL, Ftp
	09-10-23 to 14-10-23	Android: Ice cream Sandwich, Jellybean
	16-10-23 to 21-10-23	Peer to Peer and Cloud Network
	23-10-23 to 28-10-23	Social Network Analysis, development of the social networks analysis
	30-10-23 to 31-10-23	Electronic Sources for Network Analysis, Electronic Discussion networks
November	02-11-23 to 4-11-23	Blogs and Online Communities, Web Based Networks.
	06-11-23 to 09-11-23	Web Based Networks, Building Semantic.
	17-11-23 to 24-11-23	Web Applications with social network features.

Lesson Plan

Session: 2023-24

Class: B.Sc MM- 5th Semester

Subject: Special Effects

Paper: 504

Teacher Incharge: Ms. Riya Chauhan

Month	Week	Topics
August	01-08-23 to 05-08-23	Introduction to After effects Overview to After effects
	07-08-23 to 12-08-23	Application and scope of After effects
	14-08-23 to 19-08-23	Creating a composition
	21-08-23 to 26-08-23	Managing multiple composition
	28-08-23 to 31-08-23	Adding layers to a composition
September	01-09-23 to 09-09-23	Mixing audio with fades
	11-09-23 to 16-09-23	Trimming audio layers
	18-09-23 to 23-09-23	Introduction to key frames and Motion path Scaling motion path
	25-09-23 to 30-09-23	Copying , nudging Scale values and opacity value
October	03-10-23 to 07-10-23	Layer management Selecting , moving , soloing layer, Duplicating layer, renaming layer, Replacing layer
	09-10-23 to 14-10-23	Trimming and motion blur Introduction to modes , masks, mattes
	16-10-23 to 21-10-23	Applying blending modes
	23-10-23 to 28-10-23	Creating and transforming mask Luminance range issues
	30-10-23 to 31-10-23	Rotoscopy Planning layers inside masks
November	02-11-23 to 04-11-23	Applying effects and common effect controls Lightening in 3D
	06-11-23 to 09-11-23	Creating and managing shadows Nesting and precomposition
	17-11-23 to 24-11-23	Formatting and randomizing text Color management