LESSON PLAN

Session 2024-2025   **Class- B.A. 1st Semester**

Subject: Office and Spreadsheets Tools   **Paper Code: B23-SEC-101**

Teacher Name- Mrs. Divya Sharma & Ms. Ritu Rani

MONTH	WEEK	TOPICS
July	22-07-2024 To 29-07-2024	Operating System: Definition, Function of Operating systems
August	03-08-2024 To 10-08-2024	Types of Operating System, Basics of Operating System
	12-08-2024 To 17-08-2024	The User Interface, Exploring Computer
	20-08-2024 To 24-08-2024	Icons, Taskbar, Desktop, Using Menus
	27-08-2024 To 31-08-2024	Menu Selection, Managing Files and Folders
September	02-09-2024 To 07-09-2024	Control Panel- Display Properties, Add/Remove Hardware and Software
	09-09-2024 To 14-09-2024	Common Utilities, Introduction to Word Processing Menus, Creating, Editing & Formatting Documents
	16-09-2024 To 21-09-2024	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros
	23-09-2024 To 30-09-2024	Inserting Hyperlinks, Searching for Text, Modifying Page Setup, Applying Document's Themes
October	06-10-2024 To 12-10-2024	Applying Documents Styles Sets, Inserting Header and Footers
	14-10-2024 To 19-10-2024	Spreadsheet: Elements Of Electronic Spreadsheet, Application, Creating and Opening of Spreadsheet, Menus, Manipulations of Cells
	21-10-2024 To 26-10-2024	Enter Text Numbers and Dates, Cell Height and Width, Copying of Cells, Mathematical, Statistical, Financial Functions
November	04-11-2024 To 09-11-2024	Using Sound, Animation, Working with Objects, Printing
	11-11-2024 To 16-11-2024	Creating, Modifying and Enhancing a Presentation, Types of Presentation Views
	18-11-2024 To 22-11-2024	Drawing Different Types of Charts, Sort and Filter Data

LESSON PLAN

Session: 2024-2025 **Class: B.A 3rd Semester (Computer Science)**

Subject: Operating System **Paper Code: B23-CSE-301**

Teacher Incharge: Ms. Sweta and Ms. Ruchi

Months	Week	Topics
July	22-07-2024 To 31-07-2024	Operating System: Introduction, Functions and Characteristics, Historical Evolution Of Operating System And Structure of Operating System.
August	05-08-2024 To 07-08-2024	Types Of Operating System: Real Time Operating System, Multi Programming Operating System, Multiprocessing Operating System And Batch Operating System.
	12-08-2024 To 14-08-2024	Operating System Services, Operating System Interface, Service System Calls, System Programs.
	20-08-2024 To 21-08-2024	Process Management: Process Concepts, Operations on Processes, Process States and Process Control Block, Inter-Process Communication.
	27-08-2024 To 28-08-2024	CPU Scheduling: Scheduling Criteria, Levels of Scheduling, Scheduling Algorithms, Multiple Processor Scheduling.
September	02-09-2024 To 04-09-2024	Synchronization: Critical Section Problem, Semaphores, Classical Problem of Synchronization, Monitors. Test Of Operating System; Introduction, Functions and Characteristics.
	09-09-2024 To 11-09-2024	Deadlocks: Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection and Recovery.
	16-09-2024 To 18-09-2024	Memory Management Strategies: Memory Management of Single-User And Multi user Operating System, Partitioning, Swapping.
	24-09-2024 To 25-09-2024	Contiguous Memory Allocation, Paging and Segmentation; Virtual Memory Management: Demand Paging.
	30-09-2024	Test Of CPU Scheduling: Levels, Algorithms and Multiple Processor Scheduling.
October	01-10-2024	Implementing File System: File System Structure, Thrashing in Memory Management.
	08-10-2024 To 10-10-2024	File System Implantation. File Operations, Types of Files, Directory Implementation; Structure, Operations and File Systems.
	15-10-2024 To 16-10-2024	Test Of Deadlock Characterization, Methods for Handling Deadlocks. Allocation Methods; Advantages and Disadvantages, Real World Applications
	22-10-2024 To 26-10-2024	Free Space Management; Objectives, Techniques, Challenges and Applications.
Vacations	27-10-2024 To 03-11-2024	Diwali Vacations
November	04-11-2024 To 06-11-2024	Disk Scheduling Algorithms: Types Of Disk Scheduling Algorithms, Metrics and Real- World Applications.
	11-11-2024 To 13-11-2024	Disk Scheduling Algorithm- SSTF, Scan, C- Scan, Look, C-Look, SSD Management.
	18-11-2024 To 22-11-2024	Test Of Types and Operations of Files. Page Replacement Algorithms, Evaluation.

LESSON PLAN

Session: 2024-2025   **Class: B.A. General**

Subject: Programming with C   **Paper Code: B23-CSE-303**

Teacher Name: Mrs. Divya Sharma & Ms. Rozzy Dutta

MONTH	WEEK	TOPICS
July	22-07-2024 To 29-07-2024	Overview Of C: History, Importance, Structure Of C
August	03-08-2024 To 10-08-2024	Character Sets, Constants and Variables, Identifiers and Keyword
	12-08-2024 To 17-08-2024	Data Types, Assignments Statements, Symbolic Constants
	20-08-2024 To 27-08-2024	Unformatted And formatted i/o Functions, Input Functions Viz. Scanf (), Getch (), GetChar (), Gets ()
September	02-09-2024 To 07-09-2024	Output Function Viz. Printf (), Putch (), Putchar (), Puts ()
	09-09-2024 To 14-09-2024	Operator and Expressions: Arithmetical, Relational, Logical, Bitwise, Unary Assignment
	16-09-2024 To 21-09-2024	Conditional Operators and Special Operators, Operators Hierarchy & Associativity
	23-09-2024 To 30-09-2024	Arithmetic Expressions, Evaluation of Arithmetic Expressions, Type Casting and Conversion
October	05-09-2024 To 12-10-2024	Decision Making with If Statement, If –Else Statements, Nested If Statements
	14-10-2024 To 19-10-2024	Else – If Ladder, Switch and Break Statement, Go to Statement
	21-10-2024 To 26-10-2024	Looping: For, While, Do- While, Jumps in Loops
	21-10-2024 To 26-10-2024	Functions: Definition, Prototype, Function Call, Passing Arguments to a Function
	27-10-2024 To 03-11-2024	Diwali Vacations
November	04-11-2024 To 09-11-2024	Arrays: Definition, Types, Initialization, Multidimensional Array, Processing on Arrays
	11-11-2024 To 22-11-2024	Call By Value, Call by Reference, Recursive Functions

LESSON PLAN

Session: 2024-2025 **Class: B.Sc. (C.Sc.) - 1st Semester**
Subject: Problem Solving through C **Paper Code: B23-CSE-101**
Teacher Incharge: Mrs. Ritu

MONTH	WEEK	TOPICS
July	22-07-2024 To 27-07-2024	Overview Of C: History, Importance, Structure of C Program,
August	29-07-2024 To 03-08-2024	Character Set, Constants and Variables, Identifiers and Keywords,
	05-08-2024 To 10-08-2024	Data Types, Assignment Statement, Symbolic Constant.
	12-08-2024 To 17-08-2024	Input/Output: Formatted I/O Function-
	19-08-2024 To 24-08-2024	Input Functions Viz. Scanf(), Getch(), Getche(), Getchar (), Gets(),
	26-08-2024 To 31-08-2024	Output Functions Viz. Printf(), Putch(), Putchar(), Puts().
September	02-09-2024 To 07-09-2024	Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators
	09-09-2024 To 14-09-2024	Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression, Type Casting and Conversion.
	16-09-2024 To 21-09-2024	Decision Making with If Statement, If Else Statement, Nested If Statement, Else-If Ladder, Switch and Break Statement, Go to Statement,
	23-09-2024 To 28-09-2024	Looping Statements: For, While, And Do While Loop, Jumps in Loops.
October	30-09-2024 To 05-10-2024	Arrays: One Dimensional Arrays - Declaration, Initialization and Memory Representation; Two Dimensional Arrays -Declaration, Initialization and Memory Representation.
	07-10-2024 To 12-10-2024	Functions: Definition, Prototype, Function Call, Passing Arguments to a Function: Call by Value; Call by Reference, Recursive Functions.
	14-10-2024 To 19-10-2024	Strings: Declaration And Initialization, String I/O, Array of Strings,
	21-10-2024 To 26-10-2024	String Manipulation Functions: String Length, Copy, Compare, Concatenate Etc., Search for a Sub String.
	27-10-2024 To 03-11-2024	Diwali Vacations
November	04-11-2024 To 09-11-2024	Pointers In C: Declaring And Initializing Pointers, Accessing Address and Value of Variables Using Pointers; Pointers and Arrays.
	11-11-2024 To 16-11-2024	User Defined Data Types: Structures - Definition, Advantages of Structure, Declaring Structure Variables, Accessing Structure Members, Structure Members Initialization
	18-11-2024 To 22-11-2024	Array Of Structures; Unions - Union Definition; Difference Between Structure and Union.

LESSON PLAN

Session 2024-2025   **Class: B.Sc. C.Sc.- 5ᵗʰSemester**
Subject: Fundamentals of Database Systems   **Paper: Paper I**
Teacher Incharge: Dr. Aarti Singh

MONTH	WEEK	TOPICS
August	01-08-24 To 03-08-24	Basic Concepts – Data, Information, Records and Files. Traditional File Based Approach-Limitations of Traditional File Based Approach
	05-08-24 To 10-08-24	Database Approach-Characteristics of Database Approach, Database Management System (Dbms)
	12-08-24 To 17-08-24	Components Of Dbms Environment, Dbms Functions and Components
	19-08-24 To 24-08-24	Advantages And Disadvantages of Dbms. Actors On the Scene - Data and Database Administrator, Database Designers
	26-08-2024 To 31-08-2024	Actors On the Scene - End Users Applications Developers and Workers Behind the Scene.
September	02-09-2024 To 07-09-2024	Database System Architecture – Three Levels of Architecture, Schemas – External, Conceptual and Internal Level
	09-09-2024 To 14-09-2024	Database Languages – VDL, DDL, SDL, DML, SQL, Mappings – External/ Conceptual and Conceptual/Internal
	16-09-2024 To 21-09-2024	Instances, Data Independence – Logical and Physical Data Independence
	23-09-2024 To 30-09-2024	Data Models: High Level, Low Level and Representational – Records- Based Data Models, Object-Based Data Models, Physical Data Models and Conceptual Models
October	01-10-2024 To 05-10-2024	Entity-Relationship Model – Concepts, Entity Types, Entity Sets, Attributes, Relationships, Constraints, Keys, Degree, Cardinality Etc.
	07-10-2024 To 12-10-2024	Er Diagrams of Any Database Organization- Inventory System, Payroll System
	14-10-2024 To 19-10-2024	Er Diagrams Of Database Organizations- Reservation System, Online Book Store Etc.
	21-10-2024 To 26-10-2024	Classification Of Database Management System, Centralized and Client Server Architecture
November	04-11-2024 To 09-11-2024	Relational Data Model: Brief History, Terminology In Relational Data Structure, Relations, Properties Of Relations, Keys – Primary And Secondary Keys
	11-11-2024 To 16-11-2024	Relation Keys- Composite, Candidate, Alternate and Foreign Key, Domains, Integrity Constraints Over Relations
	18-11-2024 To 23-11-2024	Revision Sessions

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LESSON PLAN

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Session: 2024 -2025   **Class: B.Sc. C. Sc.- 5th Semester**
Subject: Web Designing   **Paper: Paper II**
Teacher Incharge: Dr. Aarti Singh

MONTH	WEEK	TOPICS
August	01-08-24 To 03-08-24	Introduction To Internet And World Wide Web; Evolution and History Of World Wide Web
	05-08-24 To10-08-24	Basic Features; Web Browsers; Web Servers; Hypertext Transfer Protocol
	12-08-24 To 17-08-24	URLs; Searching and Web-Casting Techniques
	19-08-24 To 24-08-24	Search Engines and Search Tools
	26-08-2024 To 31-08-2024	Steps For Developing Website: Choosing the Contents
September	02-09-2024 To 07-09-2024	Steps For Developing Website: Home Page; Domain Names
	09-09-2024 To 14-09-2024	Internet Service Provider; Planning and Designing Web Site
	16-09-2024 To 21-09-2024	Creating a website; Web Publishing: Hosting Site;
	23-09-2024 To 30-09-2024	Introduction To Html; Hypertext and Html; Html Document Features
October	01-10-2024 To 05-10-2024	Html Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line
	07-10-2024 To 12-10-2024	Creating Links; Headers; Text Styles; Text Structuring
	14-10-2024 To 19-10-2024	Text Colors and Background; Formatting Text
	21-10-2024 To 26-10-2024	Page Layouts; Insertion of Text, Movement of Text Images: Types of Images, Insertion of Image, Movement of Image
November	04-11-2024 To 09-11-2024	Ordered And Unordered Lists, Inserting Graphics; Table Handling Functions Like Columns, Rows, Width, Colors
	11-11-2024 To 16-11-2024	Frame Creation and Layouts; Working with Forms and Menus; Working with Buttons Like Radio, Check Box
	18-11-2024 To 23-11-2024	Revision Session

LESSON PLAN

Session: 2024-2025   **Class: B.Sc. Non-Med. - 1ˢᵗ Semester**
(Minor)Subject: Basics of Computer Science   **Paper Code: B23-CSE-103**
Teacher Incharge: Dr. Aarti Singh

MONTH	WEEK	TOPICS
August	01-08-2024 To 03-08-2024	Introduction To Computers: Definition Of Computers, History and Generations of Computers
	05-08-2024 To 10-08-2024	Characteristics Of Computer, Classification of Computers
	12-08-2024 To 17-08-2024	Fundamental Block Diagram of Computer: CPU, Input & Output Unit
	19-08-2024 To 24-08-2024	Software: Definition Of Software, Types of Software-System Software
	26-08-2024 To 31-08-2024	Application Software and Utility Software
September	02-09-2024 To 07-09-2024	Types Of Computer Languages, Assemblers, Interpreters, Compiler
	09-09-2024 To 14-09-2024	Introduction To Operating Systems: Types Of Operating System, Functions Of Operating System
	16-09-2024 To21-09-2024	Windows: Introduction To Windows, Starting Windows, Desk Top, Task Bar, Opening and Closing Applications
	23-09-2024 To 30-09-2024	Icons- Creating, Renaming and Removing
October	01-10-2024 To 05-10-2024	Date And Time Setting, Working with Files and Folders-Creating
	07-10-2024 To 12-10-2024	Deleting, Opening, Finding, Copying, Moving, And Renaming
	14-10-2024 To 19-10-2024	Networking: Concept, Basic Elements of a Communication System
	21-10-2024 To 26-10-2024	Data Transmission Media, LAN, MAN, WAN
November	04-11-2024 To 09-11-2024	Introduction Of Internet and Www
	11-11-2024 To 16-11-2024	Basic Working of a Web Browser, Introduction to Popular Web Browsers
	18-11-2024 To 23-11-2024	Revision Sessions

LESSON PLAN

Session: 2024-2025   **Class: B.Sc. Computer Application 3rd Sem**
Subject: C++   **Paper Code: B23-CAP-201**
Teacher Incharge: Ms. Megha

MONTH	WEEK	TOPICS
July	22-07-2024 To 07-07-2024	Introduction to C++: About C++, Character Set, Keywords
	29-07-2024 To 31-07-2024	Identifiers, Constants, Punctuators, Data Types: User Define, Built-in, Derived Data types
August	01-08-2024 To 03-08-2024	Access Modifiers, Unformatted and Formatted Input/output Operations using Extraction and Extraction Operators
	05-08-2024 To 10-08-2024	Type Conversion, Type Casting
	12-08-2024 To 14-08-2024	Operators in C++: Arithmetic, Relational, Logical, Ternary, Precedence and associatively of Operators
	16-08-2024 To 17-08-2024	Control Structures: If, If-else, Nested if statements
	20-08-2024 To 24-08-2024	If-else-if ladder, Switch case statement, Break and continue
	27-08-2024 To 31-08-2024	Goto statement, Nested switch, Case Statements
September	02-09-2024 To 07-09-2024	Loops: While Loop, do- while loop, for loop
	09-09-2024 To 14-09-2024	Array and Strings: Array definition, initialization, multidimensional arrays
	16-09-2024 To 21-09-2024	Manipulation of array elements, string declaration and initialization, manipulations
	24-09-2024 To 28-09-2024	String handling functions, functions: Declaration and definition, return values, arguments
	30-09-2024	Passing parameters by value, Call by reference, call by pointer
October	01-10-2024	Recursions, inline and external linkage function, storage classes
	03-10-2024 To 04-10-2024	Object oriented features of C++, class and objects
	07-10-2024 To 11-10-2024	Data hiding and encapsulation, abstraction
	14-10-2024 To 16-10-2024	Constructors and destructors
	18-10-2024 To 19-10-2024	Data members and member functions, accessing class members
	21-10-2024 To 26-10-2024	Empty class, local class
	27-10-2024 To 03-11-2024	Diwali vacations
November	04-11-2024 To 09-11-2024	Global class
	11-11-2024 To 14-11-2024	Scope resolution operators and its uses
	16-11-2024	Static data member, static member functions
	18-11-2024 To 22-11-2024	Structure versus class

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Session: 2024-2025 **Class: B.Sc. C. Sc.- 3rd Semester, Non-Med. 3rd Semester (Minor)**
Subject: Operating Systems **Course Code: B23-CSE-301**
Teacher Incharge: Dr. Aarti Singh

MONTH	WEEK	TOPICS
August	01-08-2024 To 03-08-2024	Introductory Concepts: Operating System, Functions and Characteristics, Historical Evolution of Operating Systems, Operating System Structure
	05-08-2024 To 10-08-2024	Types Of Operating System: Real Time, Multiprogramming, Multiprocessing, Batch Processing.
	12-08-2024 To 17-08-2024	Operating System Services, Operating System Interface, Service System Calls, System Programs.
	19-08-2024 To 24-08-2024	Process Management: Process Concepts, Operations on Processes, Process States and Process Control Block. Inter-Process Communication.
	26-08-2024 To 01-08-2024	CPU Scheduling: Scheduling Criteria, Levels of Scheduling, Scheduling Algorithms, Multiple Processor Scheduling, Algorithm Evaluation
September	02-09-2024 To 07-09-2024	Synchronization: Critical Section Problem, Semaphores, Classical Problem of Synchronization, Monitors
	09-09-2024 To 14-09-2024	Deadlocks: Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention
	16-09-2024 To 21-09-2024	Deadlock Avoidance, Deadlock Detection and Recovery.
	23-09-2024 To 30-09-2024	Memory Management Strategies: Memory Management of Single-User and Multiuser Operating System, Partitioning
October	01-10-2024 To 05-10-2024	Swapping, Contiguous Memory Allocation, Paging and Segmentation
	07-10-2024 To 12-10-2024	Virtual Memory Management: Demand Paging, Page Replacement Algorithms, Thrashing
	14-10-2024 To 19-10-2024	Implementing File System: File System Structure, File System Implantation, File Operations
	21-10-2024 To 26-10-2024	Type Of Files, Directory Implementation, Allocation Methods
November	04-11-2024 To 09-11-2024	Free Space Management. Disk Scheduling Algorithm- SSTF, Scan, C- Scan, Look, C-Look
	11-11-2024 To 16-11-2024	SSD Management
	18-11-2024 To 23-11-2024	Revision Sessions

LESSON PLAN

Session: 2024-2025   **Class: B.Sc. C. Sc.- 5th Semester**
Subject: Fundamentals of Database Systems   **Paper: Paper I**
Teacher Incharge: Dr. Aarti Singh

MONTH	WEEK	TOPICS
August	01-08-2024 To03-08-2024	Basic Concepts – Data, Information, Records and Files. Traditional File Based Approach-Limitations of Traditional File Based Approach
	05-08-2024 To 10-08-2024	Database Approach-Characteristics of Database Approach, Database Management System (Dbms)
	12-08-2024 To 17-08-2024	Components Of Dbms Environment, Dbms Functions and Components
	19-08-2024 To 24-08-2024	Advantages And Disadvantages of Dbms. Actors On the Scene - Data and Database Administrator, Database Designers
	26-08-2024 To 31-08-2024	Actors On the Scene - End Users Applications Developers and Workers Behind the Scene.
September	02-09-2024 To 07-09-2024	Database System Architecture – Three Levels of Architecture, Schemas – External, Conceptual and Internal Level
	09-09-2024 To 14-09-2024	Database Languages – Vdl, Ddl, Sdl, Dml, Sql, Mappings – External/ Conceptual and Conceptual/Internal
	16-09-2024 To 21-09-2024	Instances, Data Independence – Logical and Physical Data Independence
	23-09-2024 To 30-09-2024	Data Models: High Level, Low Level and Representational – Records-Based Data Models, Object-Based Data Models, Physical Data Models and Conceptual Models
October	01-10-2024 To 05-10-2024	Entity-Relationship Model – Concepts, Entity Types, Entity Sets, Attributes, Relationships, Constraints, Keys, Degree, Cardinality Etc.
	07-10-2024 To 12-10-2024	Er Diagrams of Any Database Organization- Inventory System, Payroll System
	14-10-2024 To 19-10-2024	Er Diagrams of Database Organizations- Reservation System, Online Book Store Etc.
	21-10-2024 To 26-10-2024	Classification Of Database Management System, Centralized and Client Server Architecture
November	04-11-2024 To09-11-2024	Relational Data Model: Brief History, Terminology in Relational Data Structure, Relations, Properties of Relations, Keys – Primary and Secondary Keys
	11-11-2024 To 16-11-2024	Relation Keys- Composite, Candidate, Alternate and Foreign Key, Domains, Integrity Constraints Over Relations
	18-11-2024 To 23-11-2024	Revision Sessions

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Session: 2024-2025   **Class: B.Sc. C. Sc.- 5th Semester**

Subject: Web Designing   **Paper: Paper II**

Teacher Incharge: Dr. Aarti Singh

MONTH	WEEK	TOPICS
August	01-08-2024 To 03-08-2024	Introduction To Internet And World Wide Web; Evolution and History Of World Wide Web
	05-08-2024 To10-08-2024	Basic Features; Web Browsers; Web Servers; Hypertext Transfer Protocol
	12-08-2024 To 17-08-2024	URLs; Searching and Web-Casting Techniques
	19-08-2024 To 24-08-2024	Search Engines and Search Tools
	26-08-2024 To 31-08-2024	Steps For Developing Website: Choosing the Contents
September	02-09-2024 To 07-09-2024	Steps For Developing Website: Home Page; Domain Names
	09-09-2024 To 14-09-2024	Internet Service Provider; Planning and Designing Web Site
	16-09-2024 To 21-09-2024	Creating a website; Web Publishing: Hosting Site;
	23-09-2024 To 30-09-2024	Introduction To Html; Hypertext and Html; Html Document Features
October	01-10-2024 To 05-10-2024	Html Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line
	07-10-2024 To 12-10-2024	Creating Links; Headers; Text Styles; Text Structuring
	14-10-2024 To 19-10-2024	Text Colors and Background; Formatting Text
	21-10-2024 To 26-10-2024	Page Layouts; Insertion of Text, Movement of Text
November	04-11-2024 To 09-11-2024	Images: Types Of Images, Insertion of Image, Movement of Image, Ordered and Unordered Lists, Inserting Graphics; Table Handling Functions Like Columns, Rows, Width, Colors
	11-11-2024 To 16-11-2024	Frame Creation and Layouts; Working with Forms and Menus; Working with Buttons Like Radio, Check Box
	18-11-2024 To 23-11-2024	Revision Sessions

LESSON PLAN

Session: 2024-2025   **Class: B.A. (C.Sc.) - 1ˢᵗ Semester**
Subject: Problem Solving through C   **Course Code: B23-CSE-101**
Teacher Incharge: Mrs. Ritu

MONTH	DATE	TOPICS
July	22-07-2024 To 27-07-2024	Overview Of C: History, Importance, Structure of C Program,
August	29-07-2024 To 03-08-2024	Character Set, Constants and Variables, Identifiers and Keywords,
	05-08-2024 To 10-08-2024	Data Types, Assignment Statement, Symbolic Constant.
	12-08-2024 To 17-08-2024	Input/Output: Formatted I/O Function-
	19-08-2024 To 24-08-2024	Input Functions Viz. Scanf(), Getch(), Getche(), Getchar(), Gets(),
	26-08-2024 To 31-08-2024	Output Functions Viz. Printf(), Putch(), Putchar(), Puts().
September	02-09-2024 To 07-09-2024	Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators
	09-09-2024 To 14-09-2024	Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression, Type Casting and Conversion.
	16-09-2024 To 21-09-2024	Decision Making with If Statement, If else Statement, Nested If Statement, Else-If Ladder, Switch and Break Statement, Goto Statement,
	23-09-2024 To 28-09-2024	Looping Statements: For, While, And Do while Loop, Jumps in Loops.
October	30-09-2024 To 05-10-2024	Arrays: One Dimensional Arrays - Declaration, Initialization and Memory Representation; Two Dimensional Arrays -Declaration, Initialization and Memory Representation.
	07-10-2024 To 12-10-2024	Functions: Definition, Prototype, Function Call, Passing Arguments to a Function: Call by Value; Call by Reference, Recursive Functions.
	14-10-2024 To 19-10-2024	Strings: Declaration And Initialization, String I/O, Array of Strings,
	21-10-2024 To 26-10-2024	String Manipulation Functions: String Length, Copy, Compare, Concatenate Etc., Search for a Substring.
	27-10-2024 To 03-11-2024	**Diwali Vacations**
November	04-11-2024 To 09-11-2024	Pointers In C: Declaring And Initializing Pointers, Accessing Address and Value of Variables Using Pointers; Pointers and Arrays.
	11-11-2024 To 16-11-2024	User Defined Data Types: Structures - Definition, Advantages of Structure, Declaring Structure Variables, Accessing Structure Members, Structure Members Initialization
	18-11-2024 To 22-11-2024	Array Of Structures; Unions - Union Definition; Difference Between Structure And Union.

LESSON PLAN

Session: 2024 -2025   **Class: B.A. C.Sc.- 5ᵗʰ Semester**
Subject: Fundamentals of Database Systems   **Paper: Paper I**
Teacher Incharge: Ms. Amrita

MONTH	WEEK	TOPICS
August	01-08-2024 To 03-08-2024	Basic Concepts – Data, Information, Records and Files. Traditional File Based Approach-Limitations of Traditional File Based Approach
	05-08-2024 To 10-08-2024	Database Approach-Characteristics of Database Approach, Database Management System (Dbms)
	12-08-2024 To 17-08-2024	Components Of Dbms Environment, Dbms Functions and Components
	19-08-2024 To 24-08-2024	Advantages And Disadvantages of Dbms. Actors On the Scene - Data and Database Administrator, Database Designers
	26-08-2024 To 31-08-2024	Actors On the Scene - End Users Applications Developers and Workers Behind the Scene.
September	02-09-2024 To 07-09-2024	Database System Architecture – Three Levels of Architecture, Schemas – External, Conceptual and Internal Level
	09-09-2024 To 14-09-2024	Database Languages – Vdl, Ddl, Sdl, Dml, Sql, Mappings – External/ Conceptual and Conceptual/Internal
	16-09-2024 To 21-09-2024	Instances, Data Independence – Logical and Physical Data Independence
	23-09-2024 To 30-09-2024	Data Models: High Level, Low Level and Representational – Records-Based Data Models, Object-Based Data Models, Physical Data Models and Conceptual Models
October	01-10-2024 To 05-10-2024	Entity-Relationship Model – Concepts, Entity Types, Entity Sets, Attributes, Relationships, Constraints, Keys, Degree, Cardinality Etc.
	07-10-2024 To 12-10-2024	Er Diagrams of Any Database Organization- Inventory System, Payroll System
	14-10-2024 To 19-10-2024	Er Diagrams of Database Organizations- Reservation System, Online Book Store Etc.
	21-10-2024 To 26-10-2024	Classification Of Database Management System, Centralized and Client Server Architecture
November	04-11-2024 To 09-11-2024	Relational Data Model: Brief History, Terminology in Relational Data Structure, Relations, Properties of Relations, Keys – Primary and Secondary Keys
	11-11-2024 To 16-11-2024	Relation Keys- Composite, Candidate, Alternate and Foreign Key, Domains, Integrity Constraints Over Relations
	18-11-2024 To 23-11-2024	Revision Sessions

<div align="center">**LESSON PLAN**</div>

Session: 2024-2025   **Class: B.A. C. Sc.- 5th Semester**
Subject: Web Designing   **Paper: Paper II**
Teacher Incharge: Ms. Amrita

MONTH	WEEK	TOPICS
August	01-08-2024 To 03-08-2024	Introduction To Internet And World Wide Web; Evolution and History Of World Wide Web
	05-08-2024 To 10-08-2024	Basic Features; Web Browsers; Web Servers; Hypertext Transfer Protocol
	12-08-2024 To 17-08-2024	URLs; Searching and Web-Casting Techniques
	19-08-2024 To 24-08-2024	Search Engines and Search Tools
	26-08-2024 To 31-08-2024	Steps For Developing Website: Choosing the Contents
September	02-09-2024 To 07-09-2024	Steps For Developing Website: Home Page; Domain Names
	09-09-2024 To 14-09-2024	Internet Service Provider; Planning and Designing Web Site
	16-09-2024 To 21-09-2024	Creating a website; Web Publishing: Hosting Site;
	23-09-2024 To 30-09-2024	Introduction To Html; Hypertext and Html; Html Document Features
October	01-10-2024 To 05-10-2024	Html Tags; Header, Title, Body, Paragraph, Ordered/Unordered Line
	07-10-2024 To 12-10-2024	Creating Links; Headers; Text Styles; Text Structuring
	14-10-2024 To 19-10-2024	Text Colors and Background; Formatting Text
	21-10-2024 To 26-10-2024	Page Layouts; Insertion of Text, Movement of Text
November	04-11-2024 To 09-11-2024	Images: Types Of Images, Insertion of Image, Movement of Image, Ordered and Unordered Lists, Inserting Graphics; Table Handling Functions Like Columns, Rows, Width, Colors
	11-11-2024 To 16-11-2024	Frame Creation and Layouts; Working with Forms And Menus; Working With Buttons Like Radio, Check Box
	18-11-2024 To 23-11-2024	Revision Sessions

<div align="center">**LESSON PLAN**</div>

Session: 2024-2025 **Class: B.Sc. (C. Sc) & B.Sc. (N.M.) 3rd Semester**
Subject: Data Management **Paper: B23-SEC-302**
Teacher Incharge: Ms. Amrita

MONTH	WEEK		TOPIC
July	22-07-2024 27-07-2024	To	Database Management System – Introduction and Purpose
	29-07-2024 31-07-2024	To	Database Architectures: Centralized, Client-Server, Parallel, Distributed,
August	01-08-2024 03-08-2024	To	Web Based System: Web Architecture (2 Tier, 3 Tier, N-Tier Architecture)
	05-08-2024 10-08-2024	To	Database Storage Structures: Introduction,
	12-08-2024 14-08-2024	To	Hashing, Data Dictionary, Data Models: Introduction to Various Data Models,
	16-08-2024 17-08-2024	To	Cardinality Ratio & Relationships, Representation of Entities, Attributes,
	20-08-2024 24-08-2024	To	Relationship Attributes, Relationship Set,
	27-08-2024 31-08-2024	To	Generalization, Aggregation, Structure of Relational Database and Different Types of Keys
September	02-9-2024 To 07-09-2024		Codd's Rules and Relational Data Model
	09-9-2024 To 14-09-2024		Relational Database Design: Basic System Development Life Cycle
	16-9-2024 To 21-09-2024		Database Design – Er to Relational
	23-9-2024 To 30-09-2024		Functional Dependencies, Normalization, Normal Forms Based on Primary Keys (1Nf, 2Nf,3Nf)
October	01-10-2024 05-10-2024	To	Sql Queries: Sql Data Definition
	07-10-2024 11-10-2024	To	Data Types, Specifying Constraints
	14-10-2024 26-10-2024	To	Queries For Retrieval
	27-10-2024 30-10-2024	To	Diwali Vacations
November	04-11-2024 09-11-2024	To	Insertion, Deletion,
	11-11-2024 16-11-2024	To	Updation, Introduction to Views
	18-11-2024 22-11-2024	To	Revision

LESSON PLAN

Session: 2024-2025   **Class: B.com (Comp. App.)-3rd Semester**
Subject: System Analysis & Design   **Paper Code: BC(VOC)-506**
Teacher Incharge: Ms. Simpy & Ms. Niharika

MONTH	WEEK		TOPICS
July	22-07-2024 27-07-2024	To	Sad-Definition of System, Characteristics
	29-07-2024 31-07-2024	To	Revision Of Previous Topic
August	01-08-2024 03-08-2024	To	Elements, Types of System
	05-08-2024 10-08-2024	To	Revision Of Previous Topic
	12-08-2024 14-08-2024	To	System Development Life Cycle
	16-08-2024 17-08-2024	To	Revision Of Previous Topic
	20-08-2024 24-08-2024	To	Techno-Economic Feasibility, Role of System Analyst the Process of Logical and Physical Design
	27-08-2024 31-08-2024	To	Revision Of Previous Topic
September	02-09-2024 07-09-2024	To	Form Design Input, Output
	09-09-2024 14-09-2024	To	Revision Of Previous Topic
	16-09-2024 21-09-2024	To	Form System Testing
	24-09-2024 28-09-2024	To	Revision Of Previous Topic
	30-09-2024		Auditing, System Maintenance
October	01-10-2024		Revision Of Previous Topic
	03-10-2024 04-10-2024	To	Threats To Security
	07-10-2024 11-10-2024	To	Revision Of Previous Topic
	14-10-2024 16-10-2024	To	Control Measures
	18-10-2024 19-10-2024	To	Revision Of Previous Topic
	21-10-2024 26-10-2024	To	Practical; -The Candidates Will Develop a System Design, Such as Feasibility Study, Comparative Charts
	27-10-2024 03-11-2024	To	**Diwali Vacations**
November	04-11-2024 09-11-2024	To	Impact Analysis, Etc.,
	11-11-2024 14-11-2024	To	Revision Of Previous Topic
	16-11-2024		In Their Vicinity Using Computer Applications
	18-11-2024 22-11-2024	To	Revision

<h1 align="center">LESSON PLAN</h1>

Session: 2024-2025   **Class: B.com-3rd Semester**
Subject: WEB-Technology   **Paper Code: BC(VOC)-505**
Teacher In charge: Ms. Simpy & Ms. Niharika

MONTH	WEEK		TOPICS
July	22-07-2024 27-07-2024	To	Introduction To HTML, Tags List-Creating Table
	29-07-2024 31-07-2024	To	Linking Document Frame, Graphics to Html DocStyle Sheet,
August	01-08-2024 03-08-2024	To	Style Sheet Basic, Add Style to Document, Creating Style Sheet Rules-Style Sheet Properties
	05-08-2024 10-08-2024	To	Font, Text, List, Color and Background Color, Box, Display Properties
	12-08-2024 14-08-2024	To	Introduction To Java Script, Advantage of Java Script
	16-08-2024 17-08-2024	To	Java Script Syntax, Datatype, Variable, Array,
	20-08-2024 24-08-2024	To	Operator And Expression
	27-08-2024 31-08-2024	To	Looping Constructor, Function, Digital Box
September	02-09-2024 07-09-2024	To	Java Script Document Object Model
	09-09-2024 14-09-2024	To	Revision Of Previous Topic
	16-09-2024 21-09-2024	To	Introduction –Object in Html, Event Handling
	24-09-2024 28-09-2024	To	Revision Of Previous Topic
	30-09-2024		Window Object, Document Object
October	01-10-2024		Revision Of Previous Topic
	03-10-2024 04-10-2024	To	Browser Object, Form Object
	07-10-2024 11-10-2024	To	Navigator Screen Object
	14-10-2024 16-10-2024	To	Revision Of Previous Topic
	18-10-2024 19-10-2024	To	Build In Object
	21-10-2024 26-10-2024	To	Revision Of Previous Topic
	27-10-2024 03-11-2024	To	**Diwali Vacations**
November	04-11-2024 09-11-2024	To	User Defined Object Cookies
	11-11-2024 14-11-2024	To	Revision Of Previous Topic
	16-11-2024 22-11-2024	To	Revision

LESSON PLAN

Session: 2024-25   **Class: B.Sc. C.sc 3rd Semester (Major),**
Subject: Operating System   **B.Sc. Non-Med. 3rd Semester (Minor)**
Teacher Incharge: Dr. Aarti Singh   **Course Code: B23-CS-301**

MONTH	WEEK	TOPICS
August	01-08-24 To 03-08-24	Introductory Concepts: Operating System, Functions And Characteristics, Historical Evolution Of Operating Systems, Operating System Structure
	05-08-24 To 10-08-24	Types Of Operating System: Real Time, Multiprogramming, Multiprocessing, Batch Processing.
	12-08-24 To 17-08-24	Operating System Services, Operating System Interface, Service System Calls, System Programs.
	19-08-24 To 24-08-24	Process Management: Process Concepts, Operations On Processes, Process States And Process Control Block. Inter-Process Communication.
	26-08-2024 To 31-08-2024	CPU Scheduling: Scheduling Criteria, Levels Of Scheduling, Scheduling Algorithms, Multiple Processor Scheduling, Algorithm Evaluation
September	02-09-2024 To 07-09-2024	Synchronization: Critical Section Problem, Semaphores, Classical Problem Of Synchronization, Monitors
	09-09-2024 To 14-09-2024	Deadlocks: Deadlock Characterization, Methods For Handling Deadlocks, Deadlock Prevention
	16-09-2024 To 21-09-2024	Deadlock Avoidance, Deadlock Detection And Recovery.
	23-09-2024 To 30-09-2024	Memory Management Strategies: Memory Management Of Single-User And Multiuser Operating System, Partitioning
October	01-10-2024 To 05-10-2024	Swapping, Contiguous Memory Allocation, Paging And Segmentation
	07-10-2024 To 12-10-2024	Virtual Memory Management: Demand Paging, Page Replacement Algorithms, Thrashing
	14-10-2024 To 19-10-2024	Implementing File System: File System Structure, File System Implantation, File Operations
	21-10-2024 To 26-10-2024	Type Of Files, Directory Implementation, Allocation Methods
November	04-11-2024 To 09-11-2024	Free Space Management. Disk Scheduling Algorithm- SSTF, Scan, C- Scan, Look, C-Look
	11-11-2024 To 16-11-2024	SSD Management
	18-11-2024 To 23-11-2024	Revision Sessions

LESSON PLAN

Session: 2024-25   **Class: B.Sc. Non-Med.- 1ˢᵗSemester (Minor)**
Subject: Basics of Computer Science **Course Code: B23-CSE-103**
Teacher Incharge: Dr. Aarti Singh

Month	Week	Topics
August	01-08-24 To 03-08-24	Introduction To Computers: Definition Of Computers, History And Generations Of Computers
	05-08-24 To 10-08-24	Characteristics Of Computer, Classification Of Computers
	12-08-24 To 17-08-24	Fundamental Block Diagram Of Computer: CPU, Input & Output Unit
	19-08-24 To 24-08-24	Software: Definition Of Software, Types Of Software-System Software
	26-08-2024 To 31-08-2024	Application Software And Utility Software
September	02-09-2024 To 07-09-2024	Types Of Computer Languages, Assemblers, Interpreters, Compiler
	09-09-2024 To 14-09-2024	Introduction To Operating systems: Types Of Operating System, Functions Of Operating System
	16-09-2024 To 21-09-2024	Windows: Introduction To Windows, Starting Windows, Desk Top, Task Bar, Opening And Closing Applications
	23-09-2024 To 30-09-2024	Icons- Creating, Renaming And Removing
October	01-10-2024 To 05-10-2024	Date And Time Setting, Working With Files And Folders- Creating
	07-10-2024 To 12-10-2024	Deleting, Opening, Finding, Copying, Moving, And Renaming
	14-10-2024 To 19-10-2024	Networking: Concept, Basic Elements Of A Communication System
	21-10-2024 To 26-10-2024	Data Transmission Media, LAN, MAN, WAN
November	04-11-2024 To 09-11-2024	Introduction Of Internet And WWW
	11-11-2024 To 16-11-2024	Basic Working Of A Web Browser, Introduction To Popular Web Browsers
	18-11-2024 To 23-11-2024	Revision Sessions

Session: 2024-2025   **Class: BSc. (C.Sc.) - 1ˢᵗ Semester**
Subject: Problem Solving through C   **Course Code: B23-CSE-101(Major)**
Teacher Incharge: Mrs. Ritu

MONTH	DATE	TOPICS
July	22-07-2024 To 27-07-2024	UNIT–I Overview Of C: History, Importance, Structure of C Program,
August	29-07-2024 To 03-08-2024	Character Set, Constants and Variables, Identifiers and Keywords,
	05-08-2024 To 10-08-2024	Data Types, Assignment Statement, Symbolic Constant.
	12-08-2024 To 17-08-2024	Input/Output: Formatted I/O Function-
	19-08-2024 To 24-08-2024	Input Functions Viz. Scanf(), Getch(), Getche(), Getchar(), Gets (),
	26-08-2024 To 31-08-2024	Output Functions Viz. Printf(), Putch(), Putchar(), Puts().
September	02-09-2024 To 07-09-2024	UNIT–I operators& Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators
	09-09-2024 To 14-09-2024	Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression, Type Casting and Conversion.
	16-09-2024 To 21-09-2024	Decision Making with If Statement, If else Statement, Nested If Statement, Else-If Ladder, Switch and Break Statement, Goto Statement,
	23-09-2024 To 28-09-2024	Looping Statements: For, While, And Do while Loop, Jumps in Loops.
October	30-09-2024 To 05-10-2024	UNIT–II arrays: One Dimensional Arrays - Declaration, Initialization and Memory Representation; Two Dimensional Arrays -Declaration, Initialization and Memory Representation.
	07-10-2024 To 12-10-2024	Functions: Definition, Prototype, Function Call, Passing Arguments to A Function: Call by Value; Call by Reference, Recursive Functions.
	14-10-2024 To 19-10-2024	Strings: Declaration And Initialization, String I/O, Array of Strings,
	21-10-2024 To 26-10-2024	String Manipulation Functions: String Length, Copy, Compare, Concatenate Etc., Search for A Substring.
	27-10-2024 To 03-11-2024	DIWALI VACATIONS
November	04-11-2024 To 09-11-2024	UNIT–IV Pointers in C: Declaring and Initializing Pointers, Accessing Address and Value of Variables Using Pointers; Pointers and Arrays.
	11-11-2024 To 16-11-2024	User Defined Data Types: Structures - Definition, Advantages of Structure, Declaring Structure Variables, Accessing Structure Members, Structure Members Initialization
	18-11-2024 To 22-11-2024	Array Of Structures; Unions - Union Definition; Difference Between Structure and Union.

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LESSON PLAN

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Session: 2024-2025 **Class: BA (MDC) 1st Semester**
Subject: Computer Science/Computer Application **Paper Code: B23-CSE-104**
Teacher Incharge: Ms. Madhu Bhatia

MONTH	WEEK	TOPICS
July	22-07-2024 To 31-07-2024	Computer Fundamentals: Evolution Of Computers Through Generations, Characteristics of Computers, Strengths and Limitations of Computers, Classification of Computers, Functional. Computer Fundamentals: Evolution Of Computers Through Generations,
August	01-08-2024 To 10-8-2024	Characteristics Of Computers, Strengths and Limitations of Computers, Classification of Computers, Functional Components of a Computer System, Applications of Computers in Various Fields
	12-08-2024 To 17-08-2024	Types Of Software: System Software, Application Software, Utility Software
	19-08-2024 To 24-08-24	Memory Systems: Concept Of Bit, Byte, Word, Nibble, Storage Locations and Addresses, Measuring Units of Storage Capacity, Access Time
	26-08-2024 To 31-08-2024	Concept Of Memory Hierarchy. Primary Memory – Ram, Rom, Prom, Eprom.
September	02-9-2024 To 07-09-2024	Secondary Memory – Types of Storage Devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
	09-09-2024 To 14-09-2024	I/O Devices: I/O Ports of a Desk Top Computer, Device Controller, Device Driver. Input Devices: Classification And Use, Keyboard
	16-09-2024 To 21-09-2024	Pointing Devices – Mouse, Touch Pad and Track Ball, Joystick, Magnetic Stripes, Scanner, Digital Camera, And Microphone Output Devices:
	23-9-2024 To 30-09-2024	Speaker, Monitor, Printers: Classification, Laser, Ink Jet, Dot-Matrix. Plotter.
October	1-10-2024 To 5-10-2024	Introduction To Operating System: Definition, Functions, Features Of Operating System, Icon, Folder, File, Start Button, Task Bar, Status Buttons
	7-10-2024 To 17-10-2024	Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
	18-10-2024 To 24-10-2024	The Internet: Introduction To Networks and Internet, History, Internet, Working of The Internet. Modes Of Connecting to Internet. Electronic Mail: Introduction, Advantages and Disadvantages, User Ids, Passwords, E-Mail Addresses.
	25-10-2024 To 31-10-2024	Message Components, Message Composition, Mailer Features Browsers and Search Engines.
	27-10-2024 To 03-11-2024	Diwali Vacations
November	01-11-2024 To 06-11-2024	Operating System: Starting With Basics of Operating Systems and Its Functionalities Computer Basics: Identify The Various Computer Hardware.
	015-11-2024 To 016-11-2024	Understanding The Working of Computer Understanding Various Types of Software Internet and E-Mail:
	22-11-2024	Using Internet for Various Tasks, Creating and Using E-Mail.

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LESSON PLAN

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Session: 2024-2025   **Class: BCA- 5th Semester**
Subject: Web Designing Fundamentals   **Paper Code: BCA-351**
Teacher Incharge: Ms. Prachi

Month	Week		Topics
July	22-07-2024	to 25-07-2024	Introduction to Internet, History Of Internet, Uses Of Internet, Applications Of Internet
August	05-08-2024	to 08-08-2024	Introduction to WWW (World Wide Web), History Of WWW, Basic Features, Working Of WWW, Components of WWW
	12-08-2024	to 14-08-2024	Difference between WWW and Internet, Web Browsers, Web Servers, Workings
	20-08-2024	to 22-08-2024	Difference between Web Browser and Web Server, DNS (Domain Name System), Hypertext Transfer Protocol
	27-08-2024	to 29-08-2024	TCP/IP (Transmission Control Protocol/ Internet Protocol), IP Address (Internet Protocol Address), FTP(File Transfer Protocol)
September	02-09-2024	to 05-09-2024	URLs, Searching and Web-Casting Techniques, Search Engines and Search Tools
	09-09-2024	to 12-09-2024	Website, Steps for developing Website, Choosing the Contents, Basic Principle, Home page, Domain Names
	16-09-2024	to 19-09-2024	Internet Service Provider, Planning and Designing Website, Website Design Issues
	24-09-2024	to 26-09-2024	Creating a Website, Web Publishing, Hosting Site, Web Publishing Process, Phases of website development
October	07-10-2024	to 10-10-2024	Introduction to HTML, Hypertext and HTML, HTML Document Features, Basic Structure of HTML
	14-10-2024	to 17-10-2024	HTML Tags, Header, Title, Body, Paragraph, Ordered/Unordered line, Creating Links, Headers, Text Styles, Text structuring
	21-10-2024	to 24-10-2024	Text Colors and Background, Formatting Text, Page layouts, Insertion of Text, Movement of Text
Vacations	27-10-2024	to 03-11-2024	Diwali Vacations
November	04-11-2024	to 07-11-2024	Images, Types of Images, Insertion of Images, Movement of Images, Ordered and Unordered lists
	11-11-2024	to 14-11-2024	Inserting Graphics, Table handling functions like columns, rows, Width, Colors, Frame Creation and Layouts
	18-11-2024	to 22-11-2024	Working with Forms and Menus, Working with Button- like Radio, Check Box

Session: 2024-2025   **Class: BCA- 5th Semester**
Subject: Operating System – I   **Paper: BCA-352**
Teacher Incharge: Ms. Aarti Dhiman

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Operating System: Definition, Characteristics, Components, Functions Examples,
	29-07-2024 to 31-07-2024	Types of Operating System : Single User/ Multi User
August	01-08-2024 to 03-08-2024	Classification of Operating System: Batch, Multi programmed
	05-08-2024 to 10-08-2024	Timesharing, Multiprocessing, Parallel, Distributed, Real Time, System Calls and System Programs: Process Concept, Process state
	12-08-2024 to 14-08-2024	Process Control Block, Process Scheduling, Scheduling Queues, Schedulers, Context Switch
	16-08-2024 to 17-08-2024	Operation on Processes: Process Creation, Process Termination, Cooperating Processes
	20-08-2024 to 24-08-2024	Introduction to Threads, Inter-process Communication, CPU Scheduling : Basic Concepts,
	27-08-2024 to 31-08-2024	Scheduling Criteria, Scheduling Algorithms: FCFS, SJF
September	02-09-2024 to 07-09-2024	Scheduling Algorithms: Priority, Round- Robin, Multilevel Queue , Multilevel Feedback Queue Scheduling
	09-09-2024 to 14-09-2024	Deadlocks: System Model, Deadlock Characterization, Methods of Handling Deadlocks, Deadlock Prevention
	16-09-2024 to 21-09-2024	Deadlock Avoidance, Deadlock Detection and Recovery, Memory Management : Introduction, Swapping
	24-09-2024 to 28-09-2024	Contiguous Allocation: Single – Partition/ Multiple Partition Allocation
	30-09-2024	External/ Internal Fragmentation, Paging: Basic Method
October	01-10-2024	Hardware , Implementation of Page Table
	03-10-2024 to 04-10-2024	Segmentation: Basic Method, Hardware, Implementation of Segment table
	07-10-2024 to 11-10-2024	Advantage / disadvantage of Paging/ Segmentation
	14-10-2024 to 16-10-2024	Virtual Memory: Introduction, Demand Paging,
	18-10-2024 to 19-10-2024	Page replacement
	21-10-2024 to 26-10-2024	Page Replacement Algorithm : FIFO , Optimal, LRU, Counting, Thrashing and its cause
	27-10-2024 to 03-11-2024	Diwali vacation
November	04-11-2024 to 09-11-2024	File management: file concepts, file attributes, file operations
	16-11-2024 to 22-11-2024	File Access/Allocation methods, File Protection, file Recovery

<div align="center">**LESSON PLAN**</div>

Session: 2024-2025   **Class: BCA- 5th Semester**
Subject: Artificial Intelligence   **Paper: BCA-353**
Teacher Incharge: Dr. Anju Devi

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Artificial Intelligence: Intelligence
	29-07-2024 to 31-07-2024	AI Concepts, Various Definitions Of AI
August	01-08-2024 to 03-08-2024	Knowledge, Knowledge Pyramid,
	05-08-2024 to 10-08-2024	People And Computers, What Computers Can Do Better Than People, What People Can Do Better Than Computers
	12-08-2024 to 14-08-2024	Characteristics Of AI Problems, Problem Representation In AI, AI Evolution, History Of AI, Components Of AI, Applications Areas Of AI
	16-08-2024 to 17-08-2024	The Turing Test, The Revised Turing Test
	20-08-2024 to 24-08-2024	Expert System: Components Of Expert System, Knowledge Base, Inference Engine, User Interface
	27-08-2024 to 31-08-2024	Features Of Expert System
September	02-09-2024 to 07-09-2024	Expert System Life Cycle, Categories Of Expert System
	09-09-2024 to 14-09-2024	Rule Based Vs. Model Based Expert Systems, Advantages/Limitations Of Expert System,
	16-09-2024 to 21-09-2024	Developing An Expert System: Identification, Conceptualization, Formalization, Implementation, Testing, Using An Expert System, Application Areas Of Expert System
	24-09-2024 to 28-09-2024	AI And Search Process: Brute Force Search
	30-09-2024	Depth First/ Breadth First Search
October	01-10-2024	Heuristic Search: Hill Climbing,
	03-10-2024 to 04-10-2024	Constraint Satisfaction, Means End Analysis
	07-10-2024 to 11-10-2024	Best First Search, A* Algorithm
	14-10-2024 to 16-10-2024	Ao* Algorithm, Beam Search
	18-10-2024 to 19-10-2024	Natural Language Processing: Introduction, Need, Goal, Fundamental Problems In Natural Language Understanding
	21-10-2024 to 26-10-2024	How People Overcome Natural Language Problems
vacations	27-10-2024 to 03-11-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Speech Recognition: Introduction, Advantages And Approaches
	11-11-2024 to 14-11-2024	Introduction To Robotics: Parts Of Robot
	16-11-2024	Controlling A Robot, Intelligent Robots
	18-11-2024 to 22-11-2024	Mobile Robots, Revision

Session: 2024-25   **Class: BCA- 5ᵗʰ Semester**
Subject: Computer Networks   **Paper: BCA-354**
Teacher Incharge: Ms. Madhu Bhatia

Month	Week	Topics
July	24-07-2024 to 27-07-2024	Introduction To Data Communication And Computer Networks; Uses Of Computer Networks; Types Ofcomputer Networks And Their Topologies
	28-07-2024 to 31-07-2024	Network Hardware Components: Connectors,Transceivers, Repeaters, Hubs, Network Interface Cards And PC Cards
August	01-8-2024 to 10-08-2024	Network Hardware Components: Connectors, , Bridges, Switches, Routers, Gateways ,Network Software
	14-8-2024 to 17-08-2024	Network Design Issues And Protocols, Connection-Oriented And Connectionless Services; OSI Reference Model; Networking Models: Distributed Systems
	21-8-2024 to 24-08-2024	Client/Server Model, Peer-To-Peer Model, Web-Based Model And Emerging File-Sharing Model
	28-8-2024 to 31-08-2024	Analog And Digital Data And Signals; Bandwidth And Data Rate, Capacity, Baud Rate, Transmission Impairment; Data Rate Limits
September	04-09-2024 to 07-09-2024	Guided Transmission Media: Transmission Communication Satellites, Switching And Multiplexing Modems And Modulation Techniques; ADSL And Cablemodems
	11-09-2024 to 14-09-2024	Data Link Layer Design Issues Error Detection And Correction , Sliding Window Protocols: One-Bit,Go Back N And Selective Repeat
	18-09-2024 to 21-09-2024	Media Access Control: ALOHA, Slotted ALOHA CSMA, Collisionfree Protocols; Introduction To LAN Technologies
	25-09-2024 to 28-09-2024	Ethernet,Switched Ethernet ,Fast Ethernet, Gigabitethernet; Token Ring
October	01-10-2024 to 05-10-2024	Introduction To Wireless Lans And Bluetooth; Vlans
	09-10-2024 to 12-10-2024	Routing Algorithms: Flooding, Shortest Path Routing, Distance Vector Routing
	16-10-2024 to 19-10-2024	Link State Routing,Hierarchical Routing
	23-10-2024 to 26-10-2024	Congestion Control
	27-10-2024 to 3-11-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Traffic Shaping; Choke Packets
	11-11-2024 to 16-11-2024	Load Shedding Elements Of Transport Protocols; Network Security Issues: Security Attacks
	18-11-2024 to 22-11-2024	Encryption Methods; Digital Signature; Digital Certificate

LESSON PLAN

Session: 2024-2025   **Class: BCA – 5th Semester**
Subject: Programming using Visual Basic   **Course Code: BCA-355**
Teacher Incharge: Ms. Ritu

Month	Date	Topics To Be Covered
July	22-07-2024 to 27-07-2024	Introduction To VB: Visual & Non-Visual Programming, Procedural,
	29-07-2024 to 03-08-2024	Object-Oriented, Object-Based And Event-Driven Programming Languages,
August	05-08-2024 to 10-08-2024	VB As Even-Driven And Object-Based Language,
	12-08-2024 to 17-08-2024	VB Environment: Menu Bar, Toolbar, Project Explorer, Toolbox, Properties Window
	19-08-2024 to 24-08-2024	Form Designer, Form Layout, Immediate Window,
	26-08-2024 to 31-08-2024	Default Controls In Tool Box Visual Development And Event Driven Programming
September	02-09-2024 to 07-09-2024	Basics Of Programming: Variables: Declaring Variables, Types Of Variables, Converting Variables Types,
	09-09-2024 to 14-09-2024	User Defined Data Types, Forcing Variable Declaration, Scope & Lifetime Of Variables.
	16-09-2024 to 21-09-2024	Constants: Named & Intrinsic, Operators: Arithmetic, Relational & Logical Operators,
	23-09-2024 to 28-09-2024	Input/Output In VB: Various Controls For I/O, Message Box, Input Box, Print Statement.
October	30-09-2024 to 05-10-2024	Decision Statements In VB- If Statement, If-Then-Else, Select-Case; Looping Statements In VB: Do-Loop, For-Next, While-Wend; Exit Statement, Nested Control Structure;
	07-10-2024 to 12-10-2024	Arrays: Declaring And Using Arrays, One-Dimensional, Two-Dimensional And Multi-Dimensional Arrays,
	14-10-2024 to19-10-2024	Static And Dynamic Arrays, Array Of Arrays.
	21-10-2024 to 26-10-2024	Procedures: General & Event Procedures, Subroutines, Functions, Calling Procedures,
	27-10-2024 to 03-11-2024	**Diwali Vacations**
November	04-11-2024 to 09-11-2024	Arguments Passing Mechanisms, Optional Arguments, Named Arguments, Functions Returning Custom Data Types Simple Program Development In VB Such As Sum Of Numbers,
	11-11-2024 to 16-11-2024	Greatest Among Numbers, Checking Even/Odd Number, HCF Of Two Numbers,
	18-11-2024 to 22-11-2024	Generate Prime Numbers, Generate Fibonacci Series, Factorial Of A Number, Searching, Sorting, Etc.

LESSON PLAN

Session: 2024-25   **Class: BCA-5th Semester**
Subject: Multimedia Tools   **Paper: BCA-356**
Teacher Incharge: Ms. Shivani

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Basic Concepts and Definition of Multimedia, Components & Applications of Multimedia
	29-07-2024 to 31-07-2024	Hypermedia And Multimedia,
August	01-08-2024 to 03-08-2024	Multimedia Hardware and Software
	05-08-2024 to 10-08-2024	Multimedia Software Tools, Presentation Tools, Multimedia Authoring Introduction and Features
	12-08-2024 to 14-08-2024	Types Of Authoring Tools: Card or Page-Based
	16-08-2024 to 17-08-2024	Icon Based, Time Based, Object Oriented
	20-08-2024 to 24-08-2024	VRML History and Features, Introduction of Graphics/Image Data Types,
	27-08-2024 to 31-08-2024	File Formats Color Models in Images and Videos, Introduction of Video,
September	02-9-2024 to 07-10-2024	Types Of Video Signals, Analog and Digital Video
	09-9-2024 to 14-10-2024	Analog Video Standards- Ntsc, Pal, Seca
	16-9-2024 to 21-10-2024	Digital Video Standards- Chroma Subsampling, CCIR Standards, HDTV
	23-9-2024 to 30-10-2024	Basic Concepts of Digital Audio, Analog Vs. Digital Audio, Digitization of Sound
October	01-10-2024 to 05-11-2024	Digital Audio File Format, MIDI, Quantization and Transmission of Audio
	07-10-2024 to 11-11-2024	Coding Of Audio, Pulse Code Modulation,
	14-10-2024 to 16-10-2024	Differential Coding of Audio, Lossless Predictive Coding Introduction,
	18-10-2024 to 19-10-2024	Dpcm, Dm, Adpcm
	21-10-2024 to 26-10-2024	Introduction of Compression Techniques, Types of Data Compression, Run Length Coding
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Variable Length Coding, Dictionary-Based Coding,
	11-11-2024 to 14-11-2024	Transform Coding, Introduction of Image and Video Compression Techniques, JPEG Mode,
	16-11-2024	Video Compression Techniques: H.261
	18-11-2024 to 22-11-2024	H.263, Mpeg

LESSON PLAN

Session: 2024-25   **Class: BCA 3rd semester**

Subject: Java OOP Foundations   **Paper: B23-CAP-301**

Teacher Incharge: Ms Simpy

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Object Oriented Programming And Java Fundamentals: Structure Of Java Programe
	29-07-2024 to 31-07-2024	Classes And Objects, Data Types, Typecasting, Looping Constructs
August	01-08-2024 to 03-08-2024	Interfaces: Interface basics; Defining, Implementing And Extending
	05-08-2024 to 10-08-2024	Interfaces; Implementing Multiple Inheritance Using Interfaces
	12-08-2024 to 14-08-2024	Packages: Basics Of Packages, Creating And Accessing Packages
	16-08-2024 to 17-08-2024	System Packages, Creating user Defined Packages
	20-08-2024 to 24-08-2024	Exception Handling Using The Main Keyboards Of Exception Handling:
	27-08-2024 to 31-08-2024	Try ,Catch, Throws And Finally; Nested Try
September	02-09-2024 to 07-09-2024	File Handling Byte Stream, Character Steam,
	09-09-2024 to 14-09-2024	Revision
	16-09-2024 to 21-09-2024	File I/O Basics, File Operations
	24-09-2024 to 28-09-2024	Revisions
	30-09-2024	Multiple Catch Statements, Creating User Defined Exceptions
October	01-10-2024	Revision
	03-10-2024 to 04-10-2024	Test
	07-10-2024 to 11-10-2024	AWT And Event Handling
	14-10-2024 to 16-10-2024	Revision
	18-10-2024 to 19-10-2024	The AWT Class Hierarchy,Events, Event sources, Event Classes
	21-10-2024 to 26-10-2024	Event Listeners, Relationship Between Event
	27-10-2024 to 03-11-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Event Listeners, Relationship Between Event
	11-11-2024 to 14-11-2024	Sources And Listeners,
	16-11-2024	Delegation Event Model
	18-11-2024 to 22-11-2024	Creating Gui Applications Using AWT

Session 2024-2025   **Class- BCA 3rd semester**

Subject: Linux and Shell Programming   **Paper Code-B23-CAP-302**

Teacher Name- Divya Sharma & Ms Ritu Rani

MONTH	WEEK	TOPICS
July	22-07-2024 to 27-07-2024	Introduction To Linux : Linux Distributions ,Overview Of Linux Operating System , Linux Architecture ,Features Of Linux
August	29-08-2024 to 03-08-2024	Accessing Linux System , Starting And Shutting Down System ,Logging In And Logging Out , Comparison Of Linux With Other Operating System
	05-08-2024 to 10-08-2024	Commands In Linux –General Purpose Commands, File Oriented Commands Communication Oriented Commands, Process Oriented Commands
	12-08-2024 to 17-08-2024	Regular Expression And Filters in Linux, Simple Filters Viz. More , Wc ,Diff Sort , Uniq ,Grep ,Introducing Regular Expression
	20-08-2024 to 31-08-2024	Linux File System, Inodes and Structures ,File System & Its Component, Standard File System , File System Types
September	02-09-2024 to 07-09-2024	Processes In Linux: Starting And Stopping Processes
	09-09-2024 to 14-09-2024	Initialization Processes, Mechanism of Process Creation
	16-09-2024 to 21-09-2024	Job Control in Linux Using At, Batch, Cron, Time
	23-09-2024 to 28-09-2024	Shell Programming ,Vi-Editor
October	03-10-2024 to 07-10-2024	Shell Variables ,I/O In Shell
	12-10-2024 to 19-10-2024	Control Structure & Loops
	21-10-2024 to 26-10-2024	Subprograms ,Creating Shell Scripts
November	04-11-2024 to 16-11-2024	Executing Shell Scripts In Linux
	18-11-2024 to 22-11-2024	File System & Its Component

LESSON PLAN

Session: 2024-2025   **Class: BCA- 3rdSemester**

Subject: Data Base Technology   **Paper Code: B23-CAP-303**

Teacher Incharge : Ms Dinki

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Basic Concept: Data, Information, Record, Files, Schema and Instance, Limitation of File-Based Approach
	29-07-2024 to 30-07-2024	Characteristics Of Database Approach, DBMS, Component of DBMS Environment
August	05-08-2024 to 10-08-2024	DBMS Functions and Component, Database Interference, Pros and Cons Of DBMS
	12-08-2024 to 17-08-2024	Database Users: Data And Database Administrator, Role and Responsibilities of Database Administrator, Database Designers, Application Developers
	19-08-2024 to 24-08-2024	Database Architecture: 1-Tier, 2-Tier and Three Level of Architecture, External, Internal, Conceptual Levels
	26-08-2024 to 31-08-2024	Schemas, Mapping and Instance, Data Dependence-Logical and Physical Data Dependence, Revision of Previous Topics
	28-08-2023 to 31-08-2023	Data Models: Hierarchical, Network and Relational Models, Entity Relationship Models: Entity, Entity Set, Entity Type
September	02-09-2024 to 07-09-2024	Attributes: Types Of Attributes, Keys, Integrity Constraints Designing Of E-R Diagram, Symbolic Notation for Designing E-R Diagram
	09-09-2024 to 14-09-2024	SQL: Meaning, Purpose and Needs Of SQL, Datatypes, SQL Components: DDL, DML, DQL
	16-09-2024 to 21-09-2024	Basic Queries, Join Operation and Sub Queries, Views, Specifying Index
	23-09-2024 to 28-09-2024	Constraints And Its Implementation In SQL, Relational Algebra: Basic Operation, Select, Project, Join
October	30-10-2023	Test of Unit 2
	01-10-2024 to 05-10-2024	Relational Algebra: Basic Operation Union, Intersection, Difference, Cartesian Product, Revision of Previous Topics
	07-10-2024 to 12-10-2024	Relational Calculus: Tuple Relation and Domain Relational Calculus, Relational Algebra. Relational Calculus
	14-10-2024 to 19-10-2024	Relational Model: Functional Dependency, Characteristics, Interference Rules for Functional Dependency
	21-10-2024 to 26-10-2024	Types of Functional Dependency, Normalization: Benefits and Needs of Normalization, Normal Form on Primary Key(1NF,2NF)
	27-10-2024 to 03-11-2024	**Diwali Vacations**
November	04-11-2024 to 09-11-2024	Normal Form on Primary Key (3NF), ,4NF, Revision Of Previous Topics
	11-11-2024 to 16-11-2024	Normal Form on Primary Key (BCNF), Join Dependencies Multi-Valued Dependencies
	18-11-2024 to 22-11-2024	5NF, Domain Key Normal Form Test Of Unit 4

LESSON PLAN

Session: 2024-25   **Class: BCA 3rd Semester**

Subject: Basics of Data Science using Excel   **Paper: B23-MMT-104**

Teacher Incharge: Ms. Madhu Bhatia

Month	Week	Topics
July	25-07-2024 to 31-07-2024	Introduction To Data Science: Definition, Importance, And Applications.
August	1-08-2024 to 10-08-2024	Overview Of Excel: Interface, Basic Functions, And Features.Data Types And Formats In Excel: Text, Numbers,Dates, And Custom Formats
	16-08-2024 to 17-08-2024	Basic Data Manipulation: Sorting, Filtering, And Basic Formulas (Sum, Average, Count) Data Import and Export: Csv, Txt, And Excel Files
	22-08-2024 to 24-08-2024	Data Cleaning Techniques: Handling Missing Values, Duplicates, And Errors.
	29-08-2024 to 31-08-2024	Data Transformation: Text-To-Columns, Concatenation,
September	05-9-2024 to 07-9-2024	Data Validation Data Visualization: Creating and Customizing Charts (Bar, Line, Pie)
	12-09-2024 to 14-9-2024	Descriptive Statistics: Mean, Median, Mode, Standard Deviation, And Variance,
	19-9-2024 to 21-9-2024	Inferential Statistics: Hypothesis Testing, T-Tests, And Chi-Square Tests.
	26-9-2024 to 28-9-2024	Regression Analysis: Simple Linear Regression and Multiple Regression
October	03-10-2024 to 05-10-2024	Predictive Modeling: Introduction To Basic Predictive Models and Their Implementation In Excel
	10-10-2024 to 12-10-2024	Advanced Excel Functions: V lookup, H lookup, Index match and Pivot tables.
	17-10-2024 to 19-10-2024	Data Analysis Tool pak: Using Excel's Built-In Data Analysis Tools Such As
	24-10-2024 to 26-10-2024	Descriptive Statistics. Histograms, Correlation, And Regression
	27-10-2024 to 03-11-2024	Diwali Vacations
November	07-11-2024 to 09-11-2024	What-If analysis Tools: Scenario Manager
	14-11-2024 to 16-11-2024	Goal Seek
	21-11-2024 to 22-11-24	Data Tables

LESSON PLAN

Session:2024-2025   **Class: BA BED 1ST SEM**
Subject: Information and Communication Technology (I) In Education-I   Paper: AEC2(I)
Teacher Incharge: Ms. Madhu Bhatia

MONTH	WEEK	TOPICS
July	22-07-2024 To 31-07-2024	How Technology Enhance Learning: Basic Theories of Communication, System Theory and Learning Theory, Historical Account of The Development of Various Educational Media (Audio, Video, Print, Storage, Display, Projection)
August	01-08-2024 To 10-8-2024	Communication Process and Role of Technology in Communication, Information and Communication Technology: Meaning, Nature and Advantages
	12-08-2024 To 17-08-2024	Media Literacy and Digital Literacy-Need and Importance, Digital Divide and Enhancing Access, National ICT Policies, Curriculum, Schemes and Programs
	19-08-2024 24-08-24	Cyber Security: Privacy, Hacking, Virus, Spy Ware, Misuse, Abuse, Antivirus, Firewall, And Safe and Ethical Practices
	26-08-2024 To 31-08-2024	Computer Hardware Fundamentals (Anatomy, Input Devices, Output Devices, Storage Devices, Display Devices)
September	02-9-2024 To 07-09-2024	Computer Networks-LAN, WAN, Internet –Concept and Architecture; Locating Internet Resources – Browsing, Navigating, Searching, Selecting, Evaluating, Saving and Book Marking
	09-09-2024 To 14-09-2024	Licenses – Software License, Document License, Fare Use and Privacy; File Formats and Conversion, Utility Tools, Cloud Computing: Meaning, Types, And Advantages
	16-09-2024 To 21-09-2024	Digitalization, Software- Meaning and Types Source And Binary Code, Proprietary Software, Open-Source Software Shareware And Freeware – Concept, Philosophy, Types, And Advantages
	23-9-2024 To 30-09-2024	Operating System - Meaning, Types- Windows, Linux, Macintosh Navigating The Desktop, Control Panel, File Manager, Explorer, And Accessories
October	1-10-2024 To 5-10-2024	Software As Service - Online Software Tools and Applications and Their Educational Use Managing The ICT Infrastructure: Software Installation, Troubleshooting of Hardware
	7-10-2024 To 17-10-2024	Seeking And Providing Help, Storage and Backup, Updating and Upgrading Software, Application Software- Meaning and Types; Word Processing, Spreadsheet, Presentation: Features and Educational Applications (Unicode)
	18-10-2024 To 24-10-2024	Drawing Tools- Diagram, Concept Maps, Timelines, Flow Charts: Educational Applications of These Tools Web 2.0 Technology and Tools: Meaning, Characteristics and Types
	25-10-2024 To 26-10-2024	Social Networking and Social Bookmarking- Educational Applications Blog And Micro Blog – Reflective Journaling and Other Educational Applications
	27-11-2024 To 03-11-2024	Diwali Vacations
November	4-11-2024 To 6-11-2024	Wiki- Collaborative Authoring and Projects, Instant Messaging and Its Educational Applications.
	11-11-2024 To 13-11-2024	Social Media Sharing – Video, Presentations, Audio (Podcasts), Graphics, And Text;
	18-11-2024 To 20-11-2024	Web 2.0 Tools for Creating, Sharing
	21-11-2024 To 22-11-2024	Collaborating, Networking

LESSON PLAN

Session: 2024-25   **Class: BCA-1ˢᵗ Semester**

Subject: Problem Solving through C   **Paper: B23-CAP-101**

Teacher Incharge: Ms. Simpy

Month	Week	Topics
July	22-07-2024 To 27-07-2024	Overview Of C: History, Importance, Structure Of C Program
	29-07-2024 To 30-07-2024	Character Set, Constants And Variables
August	01-08-2024 To 03-08-2024	Identifiers And Keywords, Data Types, Assignment Statement, Symbolic Constant.
	05-08-2024 To 10-08-2024	Input/Output: Formatted I/O Function-, Input Functions Viz. Scanf(), Getch(), Getche().
	12-08-2024 To 17-08-2024	Getchar(), Gets(), Output Functions Viz. Printf(), Putch(), Putchar(), Puts().
	19-08-2024 To 24-08-2024	Revision
	26-08-2024 To 31-08-2024	Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators And Special Operators Operator Hierarchy
September	02-9-2024 To 07-9-2024	Arithmetic Expressions, Evaluation Of Arithmetic Expression, Type Casting And Conversion.
	09-9-2024 To 14-9-2024	Decision Making With If Statement, If Else Statement, Nested If Statement, Else-If Ladder, Switch And Break Statement, Goto Statement.
	16-9-2024 To 21-9-2024	Looping Statements: For, While, And Do While Loop, Jumps In Loops.
	23-9-2024 To 28-9-2024	Test Of Decision Making Statements.
October	01-10-2024 To 05-10-2024	Functions: Definition, Prototype, Function Call, Passing Arguments To A Function: Call By Value; Call By Reference, Recursive Functions.
	07--10-2024 To 12-10-2024	Strings: Declaration And Initialization, String I/O, Array Of Strings, String Manipulation Functions: String Length, Copy, Compare, Concatenate Etc., Search For A Substring.
	14-10-2024 To 19-10-2024	Revision
	21-10-2024 To 26-10-2024	Pointers In C: Declaring And Initializing Pointers, Accessing Address And Value Of Variables Using Pointers; Pointers And Arrays.
	27-10-2024 To 03-11-2024	**Diwali Vacations**
	04-11-2024 To 09-11-2024	User Defined Data Types: Structures - Definition, Advantages Of Structure.
November	11-11-2024 To 16-11-2024	Arrays: One Dimensional Arrays - Declaration, Initialization And Memory Representation; Two Dimensional Arrays -Declaration, Initialization And Memory Representation. Declaring Structure Variables, Accessing Structure Members.
	18-11-2024 To 22-11-2024	Structure Members Initialization, Array Of Structures; Unions - Union Definition; Difference Between Structure And Union.

LESSON PLAN

Session: 2024-25   **Class: BCA-1ST Semester**

Subject: Foundations of Computer Science   **Paper: B23-CAP-102**

Teacher Incharge: Ms. Ritu Rani

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Computer Fundamentals: Evolution Of Computers Through Generations, Characteristics Of Computers,
	29-07-2024 to 30-07-2024	Strengths And Limitations Of Computers.
August	01-08-2024 to 03-08-2024	Classification Of Computers, Functional Components Of A Computer System,
	05-08-2024 to 10-08-2024	Applications Of Computers In Various Fields. Types Of Software: System Software, Application Software, Utility Software,
	12-08-2024 to 17-08-2024	Shareware, Freeware, Firmware, Free Software.
	19-08-2024 to 24-08-2024	Memory Systems: Concept Of Bit, Byte, Word, Nibble, Storage Locations And Addresses, Measuring Units Of Storage Capacity, Access Time, Concept Of Memory Hierarchy.
	26-08-2024 to 31-08-2024	Primary Memory - RAM, ROM, PROM, EPROM. Secondary Memory - Types Of Storage Devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
September	02-9-2024 to 07-9-2024	I/O Devices: I/O Ports Of A Desk Top Computer, Device Controller, Device Driver.
	09-9-2024 to 14-9-2024	Input Devices: Classification And Use, Keyboard, Pointing Devices - Mouse, Touch Pad And Track Ball, Joystick, Magnetic Stripes, Scanner, Digital Camera, And Microphone.
	16-9-2024 to 21-9-2024	Output Devices: Speaker, Monitor, Printers: Classification, Laser, Ink Jet, Dot-Matrix. Plotter.
	23-9-2024 to 28-9-2024	Introduction To Operating System: Definition, Functions, Features Of Operating System, Icon, Folder, File, Start Button, Task Bar, Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop.
October	01-10-2024 to 05-10-2024	My Computer, My Documents, Windows Explorer, Control Panel.
	07--10-2024 to 12-10-2024	The Internet: Introduction To Networks And Internet, History, Internet, Intranet & Extranet, Working Of Internet, Modes Of Connecting To Internet.
	14-10-2024 to 19-10-2024	Revision
	21-10-2024 to 26-10-2024	Electronic Mail: Introduction, Advantages And Disadvantages, User Ids, Passwords, E-Mail Addresses, Message Components, Message Composition, Mailer Features.
November	27-10-2024 to 03-11-2024	**Diwali Vacations**
	04-11-2024 to 09-11-2024	Browsers And Search Engines. Name Of Browsers.
	11-11-2024 to 16-11-2024	Threats: Physical & Non-Physical Threats, Virus, Worm, Trojan, Spyware, Keylogers, Rootkits, Adware, Cookies, Phishing, Hacking, Cracking. Computer Security
	18-11-2024 to 22-11-2024	Fundamentals: Confidentiality, Integrity, Authentication, Non-Repudiation, Security Mechanisms, Security Awareness, Security Policy, Anti-Virus Software & Firewalls, Backup & Recovery.

LESSON PLAN

Session: 2024-25   **Class: BCA- 1st Semester**
Subject: Logical Organization of Computer   **Paper: B23-CAP-103**
Teacher Incharge: Ms. Ramanpreet Kaur

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Number Systems: Binary, Octal, Hexadecimal Etc. Conversions From One Number System to Another, BCD Number System.
	29-07-2024 to 30-07-2024	BCD Codes: Natural Binary Code, Weighted Code, Self-Complimenting Code, Cyclic Code. Error Detecting and Correcting Codes.
August	01-08-2024 to 03-08-2024	Character Representations: ASCII, EBCDIC And Unicode. Number Representations: Integer Numbers - Sign-Magnitude, 1's & 2's Complement Representation.
	05-08-2024 to 10-08-2024	Real Numbers Normalized Real Numbers Normalized
	12-08-2024 to 17-08-2024	Revision
	19-08-2024 to 24-08-2024	Binary Arithmetic: Binary Addition, Binary Subtraction, Binary Multiplication, Binary Division Using 1's and 2's Compliment Representations, Addition and Subtraction with BCD Representations.
	26-08-2024 to 31-08-2024	Boolean Algebra: Boolean Algebra Postulates, Basic Boolean Theorems, Boolean Expressions, Boolean Functions, Truth Tables,
September	02-9-2024 to 07-9-2024	Canonical Representation of Boolean Expressions: SOP And POS, Simplification of Boolean Expressions Using Boolean Postulates & Theorems.
	09-9-2024 to 14-9-2024	Kaurnaugh-Maps (Upto Four Variables), Handling Don't Care Conditions.
	16-9-2024 to 21-9-2024	Test Of Number System Conversion
	23-9-2024 to 28-9-2024	Logic Gates: Basic Logic Gates – And, Or, Not, Universal Gates – Nand, Nor,
October	01-10-2024 to 05-10-2024	Other Gates – XOR, XNOR Etc. Their Symbols, Truth Tables and Boolean Expressions.
	07--10-2024 to 12-10-2024	Combinational Circuits: Design Procedures, Half Adder, Full Adder, Half Subtractor, Full Subtractor,
	14-10-2024 to 19-10-2024	Multiplexers, Demultiplexers, Decoder, Encoder, Comparators, Code Converters.
	21-10-2024 to 26-10-2024	Sequential Circuits: Basic Flip- Flops and Their Working. Synchronous And Asynchronous Flip –Flops, Triggering of Flipflops.
November	27-10-2024 to 03-11-2024	**Diwali Vacations**
	04-11-2024 to 09-11-2024	Clocked RS, D Type, JK, T Type and Master-Slave Flip-Flops. State Table, State Diagram and State Equations.
	11-11-2024 to 16-11-2024	Flip-Flops Characteristics & Excitation Tables. Sequential Circuits: Designing Registers –Serial-In Serial-Out (SISO), Serial-In Parallel-Out (SIPO).
	18-11-2024 to 22-11-2024	Parallel-In Serial-Out (PISO) Parallel-In Parallel-Out (PIPO) And Shift Registers.

LESSON PLAN

Session: 2024-25   **Class: BCA- 1st Semester**
Subject: Mathematical Foundations for Computer Science-I   **Paper: B23-CAP-104**
Teacher Incharge: Ms. Richa

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Sets And their Representations, Empty Set, Finite & Infinite Sets, Subsets, Equal Sets.
	29-07-2024 to 30-07-2024	Power Sets, Universal Set, Union &a Intersection of Sets, Difference of Two Sets.
August	01-08-2024 to 03-08-2024	Complement of a Set, Venn Diagram, De-Morgan's Laws and Their Applications.
	05-08-2024 to 10-08-2024	Revision
	12-08-2024 to 17-08-2024	An Introduction to Matrices and Their Types, Operations on Matrices.
	19-08-2024 to 24-08-2024	Symmetric And Skew-Symmetric Matrices, Minors, Co-Factors.
	26-08-2024 to 31-08-2024	Determinant of A Square Matrix
September	02-9-2024 to 07-9-2024	Adjoint And Inverse of a Square Matrix, Solutions of A System of Linear Equations Up to Order 3.
	09-9-2024 to 14-9-2024	Class Test
	16-9-2024 to 21-9-2024	Quadratic Equations, Solution of Quadratic Equations.
	23-9-2024 to 28-9-2024	Arithmetic Progression, Geometric Progression.
October	01-10-2024 to 05-10-2024	Harmonic Progression, Arithmetic Mean (A.M.), Geometric Mean (G.M.).
	07--10-2024 to 12-10-2024	Harmonic Mean (H.M.), Relation Between A.M., G.M. And H.M.
	14-10-2024 to 19-10-2024	Revision
	21-10-2024 to 26-10-2024	Class Test
November	27-10-2024 to 03-11-2024	**Diwali Vacations**
	04-11-2024 to 09-11-2024	The Concept of Differentiation, Differentiation of Simple Functions,
	11-11-2024 to 16-11-2024	Revision
	18-11-2024 to 22-11-2024	Differentiation of Simple Algebraic, Trigonometric and Exponential Functions.

LESSON PLAN

Session:2024-2025   **Class: B.Sc. BED 1ST SEM**
Subject: Information and Communication Technology (ICT) In Education-I   Paper: AEC2(I)
Teacher Incharge: Ms. Madhu Bhatia

MONTH	WEEK	TOPICS
July	22-07-2024 To 31-07-2024	How Technology Enhance Learning: Basic Theories of Communication, System Theory and Learning Theory, Historical Account of The Development of Various Educational Media (Audio, Video, Print, Storage, Display, Projection)
August	01-08-2024 To 10-8-2024	Communication Process and Role of Technology in Communication, Information and Communication Technology: Meaning, Nature and Advantages
	12-08-2024 To 17-08-2024	Media Literacy and Digital Literacy-Need and Importance, Digital Divide and Enhancing Access, National ICT Policies, Curriculum, Schemes and Programs
	19-08-2024 24-08-24	Cyber Security: Privacy, Hacking, Virus, Spy Ware, Misuse, Abuse, Antivirus, Firewall, And Safe and Ethical Practices
	26-08-2024 To 31-08-2024	Computer Hardware Fundamentals (Anatomy, Input Devices, Output Devices, Storage Devices, Display Devices)
September	02-9-2024 To 07-09-2024	Computer Networks-LAN, WAN, Internet –Concept and Architecture; Locating Internet Resources – Browsing, Navigating, Searching, Selecting, Evaluating, Saving and Book Marking
	09-09-2024 To 14-09-2024	Licenses – Software License, Document License, Fare Use and Privacy; File Formats and Conversion, Utility Tools, Cloud Computing: Meaning, Types, And Advantages
	16-09-2024 To 21-09-2024	Digitalization, Software- Meaning and Types Source And Binary Code, Proprietary Software, Open-Source Software Shareware And Freeware – Concept, Philosophy, Types, And Advantages
	23-9-2024 To 30-09-2024	Operating System - Meaning, Types- Windows, Linux, Macintosh Navigating The Desktop, Control Panel, File Manager, Explorer, And Accessories
October	1-10-2024 To 5-10-2024	Software As Service - Online Software Tools and Applications and Their Educational Use Managing The ICT Infrastructure: Software Installation, Troubleshooting of Hardware
	7-10-2024 To 17-10-2024	Seeking And Providing Help, Storage and Backup, Updating and Upgrading Software, Application Software- Meaning and Types; Word Processing, Spreadsheet, Presentation: Features and Educational Applications (Unicode)
	18-10-2024 To 24-10-2024	Drawing Tools- Diagram, Concept Maps, Timelines, Flow Charts: Educational Applications of These Tools Web 2.0 Technology and Tools: Meaning, Characteristics and Types
	25-10-2024 To 26-10-2024	Social Networking and Social Bookmarking- Educational Applications Blog And Micro Blog – Reflective Journaling and Other Educational Applications
	27-11-2024To 03-11-2024	Diwali Vacations
November	4-11-2024 To 6-11-2024	Wiki- Collaborative Authoring and Projects, Instant Messaging and Its Educational Applications.
	11-11-2024 To 13-11-2024	Social Media Sharing – Video, Presentations, Audio (Podcasts), Graphics, And Text;
	18-11-2024 To 20-11-2024	Web 2.0 Tools for Creating, Sharing
	21-11-2024 To 22-11-2024	Collaborating, Networking

LESSON PLAN

Session: 2024-25   **Class: M.Sc.- III Sem**
Subject: Object Oriented Analysis and Design Using UML   Paper Code- MS-15
Teacher Name- Ms. Divya Sharma & Ms. Ritu Rani

MONTH	WEEK	TOPICS
August	03-08-2024 to 10-08-2024	UML Principles Of Modeling , UML Things- Structural , Behavioural, Grouping, Annotational, Relationship in UML , ,Dependency, Association, Generalization realization , Overview Of Diagrams In UML – Class Diagram ,Object Diagram, Use Case Diagram ,Sequence Diagram
	12-08-2024 to 17-08-2024	Collaboration Diagram, State Chart Diagram, Activity Diagram, Component Diagram, Use Case Diagram, Deployment Diagram , UML Semantic Rules-Name scope Visibility ,Integrity
	20-08-2024 to 24-08-2024	Execution Mechanism In The UML –Specification, Adornments , Common Divisions ,Extensibility Mechanisms ,Modeling As A Design Technique-Abstraction ,Encapsulation ,Modularity ,Hierarchy
	27-08-2024 to 31-08-2024	Typing, Concurrency, Persistence of Object, Purpose of Modeling, Class Model-Object and Classes , Link and Association,
September	02-09-2024 to 07-09-2024	Aggregation, Link Attributes & Link Class, Abstract Class, Metadata , Constraints Constructing Class Diagrams
	09-09-2024 to 14-09-2024	State Modeling: Event, State, Activity, Action, Transition & Condition, State Diagrams, Nested State Diagrams, Signal Generalization , Concurrency, Relationship between Class and State Models
	16-09-2024 to 21-09-2024	Interaction Modeling, Use Case Models, Use Case Diagrams, Sequence Model, Procedural Sequence Model, Activity Model, Special Construct For Activity Models
	23-09-2024 to 30-09-2024	Generalization & Inheritance, Association ends, Multiplicity, Role Name, Ordering, Qualifications
October	07-10-2024 to 12-10-2024	System Analysis & Design: System Deployment Stages, System Conception analysis, Domain Class Model, Domain State Model, Iterating the Analysis
	14-10-2024 to 19-10-2024	Application Interaction Model, Application Class Model, Application State Model, Adding Operation, System Design: Estimating Performance
	21-10-2024 to 26-10-2024	Allocating Subsystems to Processors and Tasks, Management of Data Stores, Handling Global Resources, Choosing Software Control Strategies, Handling Boundary Conditions,
	27-10-2024 to 03-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Realize Use Cases with Operations, Designing Algorithms, Adjustment of Inheritance, Organize Classes And Organizations
	11-11-2024 to 16-11-2024	Setting Trade Off Priorities, Selecting an Architect Style, Class design: Binding Gap
	18-11-2024 to 22-11-2024	Make A Reuse Plan, Organize the System into Subsystem, Identifying Concurrency

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LESSON PLAN

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Session: 2024-25   **Class: M.Sc.- III Semester**
Subject: Advanced Database Systems   **Paper Code -MS 15-32**
Teacher Incharge: Ms. Ramanpreet Kaur

Month	Week	Topics
August	01-08-2024 to 03-08-2024	Database System Concepts and Architecture: Three Schema Architecture, Data Independence
	05-08-2024 to 10-08-2024	ER Diagrams, Naming Conventions and Design Issues
	12-08-2024 to 14-08-2024	Relational Model Constraints and Relational Database Schema, EER Model: Subclasses, Super Classes,
	16-08-2024 to 17-08-2024	Inheritance, Specialization and Generalization
	20-08-2024 to 24-08-2024	Constraints And Characteristics of Specialization and Generalizations
	27-08-2024 to 31-08-2024	Object Model: Overview of Object-Oriented Concepts, Object Identity, Object Structure
September	02-09-2024 to 07-09-2024	Type Constructors, Encapsulations of Operations, Methods and Persistence, Type Hierarchies And Inheritance, Complex Objects
	09-09-2024 to 14-09-2024	Query Processing and Optimization: Using Heuristics in Query Optimization
	16-09-2024 to 21-09-2024	Revision
	24-09-2024 to 28-09-2024	Semantic Query Optimization, Database Tuning in Relational Systems
	30-09-2024	Database For Advance Applications: Architecture of Parallel Database
October	01-10-2024	Distributed Database Concepts, Data Fragmentation, Replication and Allocation Techniques.
	03-10-2024 to 04-10-2024	Distributed Database Concepts, Data Fragmentation, Replication and Allocation Techniques.
	07-10-2024 to 11-10-2024	Class Test
	14-10-2024 to 16-10-2024	Overview Of Client Server Architecture, Active Database Concepts and Triggers, Temporal Databases
	18-10-2024 to 19-10-2024	Spatial And Multimedia Databases, Deductive Databases, XML Schema, Documents and Databases
	21-10-2024 to 26-10-2024	Principles Of Big Data: Ontologies and Semantics, Classifications
	27-10-2024 to 03-11-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	The Simplest of Ontologies, Ontologies, Classes with Multiple Parents, Choosing A Class Model
	11-11-2024 to 14-11-2024	Data Integration and Software Interoperability
	16-11-2024	Versioning and Compliance Issues
	18-11-2024 to 23-11-2024	Stepwise Approach to Big Data Analysis, Failures and Legalities
	25-11-2024 to 30-11-2024	Revision

LESSON PLAN

Session: 2024-25   **Class: M.Sc.- III Semester**
Subject: Computer Network   **Paper: MS-15-33**
Teacher Incharge: Dr. Anju Devi

Month	Week	Topics
August	01-08-2024 to 03-08-2024	Introduction To Computer Networks and Its Uses, Network Categorization and Hardware
	05-08-2024 to 10-08-2024	Topologies; Network Software: Protocols, Services, Network Architecture, Design Issues for The Layers
	12-08-2024 to 14-08-2024	OSI Reference Model, TCP/IP Reference Model, Comparison of OSI And TCP/IP Models
	16-08-2024 to 17-08-2024	Introduction To Example Networks: Internet, ISDN, X.25, Frame Relay, ATM, Data Communication Model, Digital and Analog Data and Signals
	20-08-2024 to 24-08-2024	Asynchronous And Synchronous Transmission; Bit Rate, Baud, Bandwidth, Transmission Impairment
	27-08-2024 to 31-08-2024	Channel Capacity; Guided Transmission Media; Wireless Transmission; Satellite Communication, Switching; Multiplexing
September	02-09-2024 to 07-09-2024	Spread Spectrum; Local Loop; Modems And ADSL, Internet Over Cable; ADSL Versus Cable; The Mobile Telephone System
	09-09-2024 to 14-09-2024	Encoding: NRZ, NRZ-I, Manchester and Differential Manchester Encoding
	16-09-2024 to 21-09-2024	Data Link Layer Design Issues; Framing, Error Detection and Correction, Flow Control: Sliding Window Protocols; Medium Access Control: Aloha
	24-09-2024 to 28-09-2024	CSMA Protocols, Collision Free Protocols, Limited Contention Protocols, Wavelength Division Multiple Access Protocol, Wireless LAN Protocol: MACA
	30-09-2024	High Speed Lans; Ethernet LAN, Fast Ethernet, Gigabit Ethernet
October	01-10-2024	Binary Exponential Backoff Algorithm; Token Ring And FDDI; Introduction to Wireless Lans
	03-10-2024 to 04-10-2024	Network Layer Design Issues, Virtual Circuit and Datagram Subnet
	07-10-2024 to 11-10-2024	Routing Algorithms: Optimality Principle, Shortest Path Routing
	14-10-2024 to 16-10-2024	Flooding, Distance Vector Routing, Link State Routing
	18-10-2024 to 19-10-2024	Hierarchical Routing, Broadcast and Multi Cast Routing, Routing For Mobile Hosts
	21-10-2024 to 26-10-2024	Congestion Control Algorithms: General Principals; Congestion Control In Virtual – Circuit Subnets
	27-10-2024 to 03-11-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Congestion Control in Datagram Subnets: Choke Packets, Load Shedding; Random, Early Detection
	11-11-2024 to 14-11-2024	Jitter Control; Quality of Service: Over Provisioning, Buffering, Traffic Shaping
	16-11-2024	Leaky Bucket, Token Bucket
	18-11-2024 to 23-11-2024	Resource Reservation
	25-11-2024 to 30-11-2024	Admission Control, Packet Scheduling

LESSON PLAN

Session: 2024-25   **Class: M.Sc.- III Semester**
Subject: Advanced Operating Systems   **Paper MSc-15-34**
Teacher Incharge: Ms Simpy

Month	Week	Topics
August	01-08-2024 to 03-08-2024	Introduction To Distributed Systems, Hardware Concepts, Software Concepts, Design Issues
	05-08-2024 to 10-08-2024	Communication In Distributed System,
	12-08-2024 to 14-08-2024	Lay Red Protocols, ATM Networks, The Client-Server Model
	16-08-2024 to 17-08-2024	Remote Procedure Call, Group Communication
	20-08-2024 to 24-08-2024	Synchronization In Distributed System
	27-08-2024 to 31-08-2024	Clock Synchronization, Mutual Exclution, Election Algorithms
September	02-09-2024 to 07-09-2024	Atomic Transactions, Deadlocks in Distributed Systems
	09-09-2024 to 14-09-2024	Process And Processors in Distributed System Threads, System Models, Processors Allocation, Scheduling In Distributed System
	16-09-2024 to 21-09-2024	Fault Tolerance, Real Time, distributed System
	24-09-2024 to 28-09-2024	Distributed File Systems, Distributed File System Design, Distributed File System Implementation
	30-09-2024	Trends In Distributed File System.
October	01-10-2024	Distributed Shared Memory, Introduction, What Is Shared Memory?
	03-10-2024 to 04-10-2024	Object Based Distributed Shared Memory
	07-10-2024 to 11-10-2024	Real Time and Mobile Operating System; Basic Model of Real Time System
	14-10-2024 to 16-10-2024	Revision of Previous Topics
	18-10-2024 to 19-10-2024	Characteristics, Applications of Real Time Systems
	21-10-2024 to 26-10-2024	Real Time Task scheduling
	27-10-2024 to 03-11-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Handling Resources Sharing
	11-11-2024 to 14-11-2024	Mobile Operating Systems, Micro Kernel Design, Clients Server Resources Access
	16-11-2024	Revision of Previous Topics
	18-11-2024 to 22-11-2024	Processes And Threads, Memory Management

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Session: 2024-25   **Class: M. Sc- 1st Semester**

Subject: Advance Computer Architecture   **Paper: M24-CSE-102**

Teacher Name: Dr. Anju Devi

Month	Week	Topics
August	01-08-2024 to 03-08-2024	Computational Model: Computational Model, Computer Architecture, Parallel Processing: Types and Levels of Parallelism, Instruction Level Parallel (ILP) Processors
	05-08-2024 to 10-08-2024	Classification Of Parallel Architectures, Relationships Between Programming Languages and Parallel Architecture
	12-08-2024 to 14-08-2024	Dependencies Between Instructions, Principle and General Structure of Pipelines
	16-08-2024 to 17-08-2024	Pipelined Processing Instructions, Performance Measures of Pipeline
	20-08-2024 to 24-08-2024	Code Scheduling For ILP-Processors: Basic Block Scheduling, Loop Scheduling and Global Scheduling
	27-08-2024 to 31-08-2024	Superscalar Processors: Emergence Of Superscalar Processors, Tasks of Superscalar Processing- Parallel Decoding
September	02-09-2024 to 07-09-2024	Superscalar Instruction Issue, Shelving, Register Renaming
	09-09-2024 to 14-09-2024	Parallel Execution, Preserving Sequential Consistency of Instruction Execution and Exception Processing
	16-09-2024 to 21-09-2024	Comparison Of VLIW & Superscalar Processors
	24-09-2024 to 28-09-2024	Branch Handling: Branch Problem, Approaches to Branch Handling- Delayed Branching
	30-09-2024	Branch Detection & Prediction Schemes
October	01-10-2024	Branch Penalties and Schemes to Reduce Them
	03-10-2024 to 04-10-2024	Multiway Branches, MIMD Architectures: Concepts of Distributed and Shared Memory MIMD Architectures
	07-10-2024 to 11-10-2024	UMA, NUMA, CC-NUMA & COMA Models of Multiprocessors
	14-10-2024 to 16-10-2024	Direct Interconnection Networks: Metrics For Performance Measures; Interconnection Topologies: Linear Array
	18-10-2024 to 19-10-2024	Ring, Chordal Rings, Star, Tree, 2D Mesh, Barrel Shifter, Hypercube, Dynamic Interconnection Networks: Single Shared Buses
	21-10-2024 to 26-10-2024	Comparison Of Bandwidths of Locked, Pended & Split Transaction Buses
	27-10-2024 to 03-11-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Abider Logics, Crossbar, Multistage Networks- Omega
	11-11-2024 to 14-11-2024	Cache Coherence Protocols: Cache Coherence Problem, Causes
	16-11-2024	Hardware Based Protocols- Snoopy Cache Protocol
	18-11-2024 to 23-11-2024	Directory Schemes- Full Map Directory, Limited Directory
	25-11-2024 to 30-11-2024	Chained Directory

LESSON PLAN

Session: 2024-2025 **Class: M.COM 3rd Semester**

Subject: Computer Applications in Business **Paper Code: MC 301**

Teacher Incharge: Ms Naina and Ms. Ruchi

MONTH	WEEK	TOPICS
August	01-08-2024 To 06-08-2024	Computer System: Meaning, Scope, Architecture, Types, Functions And Components.
	12-08-2024to 13-08-2024	Basics Computer Organization: Central Processing Unit Types And Characteristics Of CPU.
	20-08-2024 To 27-08-2024	Software: Introduction, Types, Software Applications and Characteristics of Software. Input Devices, Output Devices and Storage Devices in Computer System.
September	02-09-2024 To 03-09-2024	Application Software: Introduction, Types, Characteristics of Application Software, Word Processing: Introduction.
	09-09-2024 To 10-09-2024	Word Processing Software, Types and Real-World Applications Introduction To Spreadsheets and Types.
	16-09-2024 To 17-09-2024	Introduction To Databases, Tables and Queries Test Of Meaning, Scope and Types of Computer System.
	24-09-2024 To 30-09-2024	Reports And Term Generations: Introduction Types, Benefits and Challenges, Fuzzy Logics. Applications, Advantages and Disadvantages of Fuzzy Logics
October	07-10-2023 To 08-10-2024	Information Technology in Business: Concept of Information Technology Introduction to Network and Types of Networks, Local Area Network: Introduction, Characteristics and Applications
	14-10-2024 To 15-10-2024	Wide area network: Introduction, Characteristics, Applications And Types, Concept of Metropolitan Area Network and Types.
	21-10-2024 To 22-10-2024	Test Of Computer Networking and Its Types. Electronic Data Processing, Intranet and Extranet.
	27-10-2024 To 03-11-2024	Diwali Vacations
November	04-11-2024 To 05-11-2024	Concept And Evolution Of World Wide Web, Types and Applications Of World Wide Web.
	11-11-2024 To 13-11-2024	Multimedia Technologies; Introduction and Types of Multimedia Technology, Video Conferencing.
	18-11-2024 To 20-11-2024	Broadband Networking; Planning and Designing Web Pages, Types and Principles Of Web Designing.
	25-11-2024 To 30-11-2024	System Software: Introduction, Operating System, User Interface.

LESSON PLAN

Session: 2024-2025   **Class: B.Sc.(MM)V Semester**

Subject: Application of Multimedia   Paper: 501

Teacher Incharge: Ms. Amrita

Month	Week	Topic
July	22-07-2024 To 27-07-2024	Multimedia Based Presentation
	29-07-2024 To 31-07-2024	Concept Of Interactive Learning Material
August	01-08-2024 To 03-08-2024	Multimedia Networks: Retail and Banking Business
	05-08-2024 To 10-08-2024	Application In Interactive Television
	12-08-2024 To 14-08-2024	Multimedia Kiosks
	16-08-2024 To 17-08-2024	Multimedia Use in Training and Education
	20-08-2024 To 24-08-2024	Multimedia In Distance Learning
	27-08-2024 To 31-08-2024	Multimedia For Marketing and Advertising
September	02-9-2024 To 07-10-2024	Multimedia Use In Museum And Galleries
	09-9-2024 To 14-10-2024	Multimedia Messaging Service
	16-9-2024 To 21-10-2024	Concept Generation of Multimedia Project
	23-9-2024 To 30-10-2024	Process and Stages of Multimedia Production
October	01-10-2024 To 05-11-2024	Multimedia Production Team Member
	07-10-2024 To 11-11-2024	Implementation And Distribution of Multimedia Products
	14-10-2024 To 26-10-2024	Multimedia Messaging Service
	27-10-2024 To 30-10-2024	Diwali Vacations
November	04-11-2024 To 09-11-2024	Gaming Consoles and LAN Gaming
	11-11-2024 To 16-11-2024	Multimedia In Medical Science Education
	18-11-2024 To 22-11-2024	Multimedia In Cinema Production

<div align="center">**LESSON PLAN**</div>

Session: 2024-25   **Class: B.SC.(MM)V Semester**

Subject: Communication Technologies   Paper: 502

Teacher Incharge: Mrs Ritu

Month	Week	Topic
July	22-07-2024 to 27-07-2024	Brief Introduction to Mass Communication Technologies: Printing, Photography,
	29-07-2024 to 31-07-2024	Audiography, Videography,
August	01-08-2024 to 03-08-2024	Cinematography
	05-08-2024 to 10-08-2024	Communication Satellites: Types, Structure and Functioning
	12-08-2024 to 14-08-2024	The Process of Radio, Television Broadcasting
	16-08-2024 to 17-08-2024	The Process of Web Broadcasting
	20-08-2024 to 24-08-2024	Wireless Networks: Wireless Network Architecture, Wireless Switching Techniques,
	27-08-2024 to 31-08-2024	Wireless Communication Problem, Wireless Network Reference Model
September	02-9-2024 to 07-10-2024	Wireless Networking Issues & Standards
	09-9-2024 to 14-10-2024	Bluetooth: User Scenarios, Architecture
	16-9-2024 to 21-10-2024	Radio Bands and Frequencies
	23-9-2024 to 30-10-2024	Satellite Radio and Web Radio
October	01-10-2024 to 05-11-2024	Infra Red Vs Radio Transmission
	07-10-2024 to 11-11-2024	Infrastructure And Ad-Hoc Network,
	14-10-2024 to 26-10-2024	Television standards: NTSC, PAL and SECAM Interactive Television
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	HDTV, IPTV, Display technology: CRT
	11-11-2024 to 16-11-2024	Plasma, LCD & LED, Direct to Home (DTH)
	18-11-2024 to 22-11-2024	Fiber Optics Conditional Access System, Pay Per View System

LESSON PLAN

Session: 2024-25   **Class: B.Sc. (MM) V Semester**

Subject: Web Technologies   **Paper: 503**

Teacher Incharge: Ms. Amrita

Month	Week	Topic
July	22-07-2024 to 27-07-2024	Planning And Designing A Website, Maintaining View State, Connecting And Hosting Database, Choosing A Web Server For Hosting,
	29-07-2024 to 31-07-2024	DNS, Configuration And Optimization Settings, Promotion And Maintenance Of Website, Uniform Resource Locators (URLs) & Web Browsers,
August	01-08-2024 to 03-08-2024	Semantic Web Applications and Services, Semantic Search, E-Learning, Semantic Bioinformatics,
	05-08-2024 to 10-08-2024	Knowledge Base, XML Based Web Services, Creating OWL-S Ontology for Web Services,
	12-08-2024 to 14-08-2024	Semantic Search Technology, Web Search Agents and Semantic Methods
	16-08-2024 to 17-08-2024	Web Technologies: Terminology & Applications; Active X Components.
	20-08-2024 to 24-08-2024	XML, Chat Applets, Ajax, Servlet
	27-08-2024 to 31-08-2024	Java Beans, J2me, Sql, Ftp
September	02-9-2024 to 07-09-2024	Android: Ice Cream Sandwich, Jellybean
	09-9-2024 to 14-09-2024	Sessional Week (Revision Week)
	16-9-2024 to 21-09-2024	Peer To Peer and Cloud Network
	23-9-2024 to 30-09-2024	Social Network Analysis
October	01-10-2024 to 05-10-2024	Development Of the Social Networks Analysis
	07-10-2024 to 11-10-2024	Electronic Sources for Network Analysis
	14-10-2024 to 26-10-2024	Electronic Discussion Networks
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Blogs And Online Communities
	11-11-2024 to 16-11-2024	Web Based Networks
	18-11-2024 to 22-11-2024	Building Semantic Web Applications with Social Network Features

LESSON PLAN

Session: 2024-25   **Class: B.Sc. (MM) V Semester**

Subject: Special Effects   **Paper: 504**

Teacher Incharge: Ms. Amrita

Month	Week	Topic
July	22-07-2024 to 27-07-2024	Introduction To After Effects, Overview to After Effects
	29-07-2024 to 31-07-2024	Application And Scope of After Effects
August	01-08-2024 to 03-08-2024	Creating a Composition
	05-08-2024 to 10-08-2024	Managing Multiple Composition
	12-08-2024 to 14-08-2024	Adding Layers to A Composition
	16-08-2024 to 17-08-2024	Mixing Audio with Fades
	20-08-2024 to 24-08-2024	Trimming Audio Layers
	27-08-2024 to 31-08-2024	Introduction To Key Frames and Motion Path Scaling Motion Path
September	02-9-2024 to 07-09-2024	Copying, Nudging, Scale Values and Opacity Value
	09-9-2024 to 14-09-2024	Layer Management Selecting, Moving, Soloing Layer, Duplicating Layer, Renaming Layer, Replacing Layer
	16-9-2024 to 21-09-2024	Trimming And Motion Blur, Introduction to Modes, Masks, Mattes
	23-9-2024 to 30-09-2024	Applying Blending Modes
October	01-10-2024 to 05-10-2024	Creating And Transforming Mask Luminance Range Issues
	07-10-2024 to 11-10-2024	Rotoscopy, Planning Layers Inside Masks
	14-10-2024 to 26-10-2024	Applying Effects and Common Effect Controls Lightening In 3d
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Creating And Managing Shadows Nesting And Pre-Composition
	11-11-2024 to 16-11-2024	Formatting And Randomizing Text, Color Management
	18-11-2024 to 22-11-2024	Luminance Range Issues, Nesting and Pre-Composition

LESSON PLAN

Session: 2024-25   **Class: B.Sc.(MM)-III Semester**

Subject: Content Writing and Scripting   **Paper: B23-MMT-301**

Teacher Incharge: Ms. Shivani

Month	Week	Topics
July	22-07-2024 To 27-07-2024	Writing: Origin, Role and Scope Language,
	29-07-2024 To 31-07-2024	Dialects And Script Analytical Writing & Descriptive Writing Self-Expressions
August	01-08-2024 To 03-08-2024	Poetry, SHER-O-SHAYARI
	05-08-2024 To 10-08-2024	Essentials Of Good Writing
	12-08-2024 To 14-08-2024	Writing For Formal Communication Creating User Interface
	16-08-2024 To 17-08-2024	Writing For Radio and Television Voice-Overs
	20-08-2024 To 24-08-2024	Writing News and Commercials
	27-08-2024 To 31-08-2024	Writing For Computer Aided Courseware
September	02-09-2024 To 07-09-2024	Writing For Dynamic Website
	09-09-2024 To 14-09-2024	Features Of Writing for Web
	16-09-2024 To 21-09-2024	Using Colors, Images, Audio and Hyperlinks
	24-09-2024 To 30-09-2024	Researching Online Resources
October	01-10-2024 To 04-10-2024	Issues Of Copyright
	07-10-2024 To 11-10-2024	Writing Fiction and Non-Fiction
	14-10-2024 To 16-10-2024	Types of Screenplays- Proposal Script,
	18-10-2024 To 19-10-2024	Shooting Script
	21-10-2024 To 26-10-2024	Postproduction Script
	27-10-2024 To 30-10-2024	Diwali Vacations
November	04-11-2024 To 09-11-2024	Layout of a Story: Theme
	11-11-2024 To 16-11-2024	Characters, Situation, Background
	18-11-2024 To 22-11-2024	Linking And Developing a Screenplay

LESSON PLAN

Session: 2024-25   **Class: B.Sc.(MM)-III Semester**

Subject: Advertisement Design   **Paper: B23-MMT-302**

Teacher Incharge: Ms. Ruchi

Month	Week	Topic
July	22-07-2024 to 27-07-2024	Advertising: Concept, Nature, Definitions, Basic Theories and Applications of Advertising.
	29-07-2024 to 31-07-2024	Advertising Objectives, Functions and Significance Importance Of Research in Advertising and Types of Research in Advertising.
August	01-08-2024 to 03-08-2024	Types And Classification of Advertising, Specialized Advertising
	05-08-2024 to 10-08-2024	Indian Languages, Challenges in Advertising, Approaches to Overcome Challenges.
	12-08-2024 to 14-08-2024	Advertising Design: Idea Generation; Techniques for Idea Generation,
	16-08-2024 to 17-08-2024	Challenges In Idea Generation, Design Principles and Strategy.
	20-08-2024 to 24-08-2024	Client Study and Product Goal Setting; Client Study Methods, Benefits and Challenges of Product Goal Setting.
	27-08-2024 to 31-08-2024	Planning Layout Design and Typefaces, Creating Effective Punch Lines; Characteristics of Effective Punchlines, Types and Techniques for Crafting Punchlines.
September	02-9-2024 to 07-10-2024	Test of Advertising: Definitions, Nature, Basic Theories and Applications. Advertising Design: Headings, Illustrations.
	09-9-2024 to 14-10-2024	Organization Of Visual Artworks in Advertising Design, Design Checklists and Testing; Testing Illustration Design, Illustration Design Trends.
	16-9-2024 to 21-10-2024	Role And Responsibilities Of Graphic Artists, E-Mailers In Advertising Design, Emailers Design ; Benefits And Tools, Seo In Advertising Design, Seo Benefits, Techniques And Tools.
	23-9-2024 to 30-10-2024	Mobile Marketing, Advertising Agencies: Structure and Functioning, Monetization and Revenue Generation.
October	01-10-2024 to 05-11-2024	Ethical Issues in Advertising, Campaign Planning: Defining Campaign Planning, Benefits of Campaign Planning.
	07-10-2024 to 11-11-2024	Test Of Idea Generations and Principles in Advertising Design, Challenges In Campaign Planning, The Planning Cycle in Advertising.
	14-10-2024 to 26-10-2024	Brand Vs Social Budget Setting; Budget Allocation Strategies, Typical Budget Allocation, Strategy Planning; Strategy Planning Process, Levels and Types.
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Benefits And Challenges of Strategy Planning, Brand

		Management; Objectives. Tools And Functions, Benefits and Challenges of Brand Management.
	11-11-2024 to 16-11-2024	Social Criticism of Advertising; Critiques, Theoretical Perspectives.
	18-11-2024 to 22-11-2024	Laws In Advertising; Types of Laws, State Laws and International Laws, Negative Consequences and Regulatory Responses.

LESSON PLAN

Session: 2024-2025   **Class: B.Sc. (MM) 3rd Sem**

Subject: Web Designing using Dreamweaver   **Paper: B23-MMT-303**

Teacher Incharge: Ms. Amrita

Month	Week	Topic
July	22-07-2024 to 27-07-2024	The Basic Dreamweaver Environment, Creating A Site Profile, The Importance of a Site Profile
	29-07-2024 to 31-07-2024	Organizing The Files & Folders, Folder and File Naming Rules
August	01-08-2024 to 03-08-2024	Creating Folders and Webpage Files
	05-08-2024 to 10-08-2024	Opening A File for Editing, Titling Pages, Creating Divisions
	12-08-2024 to 14-08-2024	Adding Headings, Paragraph Vs. Line Breaks, Tags: Logical Vs. Physical
	16-08-2024 to 17-08-2024	Lists, Linking to Other Websites, Linking to The User Files, Inserting Images on Web Pages
	20-08-2024 to 24-08-2024	Changing Images into Links, Adding an Email Link. CSS Design
	27-08-2024 to 31-08-2024	Working Of Style Sheet, Starting A Style Sheet, Font
September	02-9-2024 to 07-09-2024	Margins, Link, Colors, Stylish Headlines, Paragraphs
	09-9-2024 to 14-09-2024	Types Of Images, Organizing Images, Inserting and Formatting Tables.
	16-9-2024 to 21-09-2024	Form Elements, Head Elements, Page Templates
	23-9-2024 to 30-09-2024	Form Objects, Accessible Forms
October	01-10-2024 to 05-10-2024	Flash Elements
	07-10-2024 to 11-10-2024	Multimedia Contents
	14-10-2024 to 26-10-2024	Browser, Compatibility Testing,
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Uploading The Website on Web, Testing Website Online,
	11-11-2024 to 16-11-2024	Uploading Changes,
	18-11-2024 to 22-11-2024	Maintaining Website

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Session:2024-2025   **Class: B.Sc. (MM)3rd Semester**

Subject: Vector Graphics   **Paper: B23-MMT-304**

Teacher Incharge: Ms. Ramanpreet

Month	Week	Topic
July	22-07-2024 to 27-07-2024	Design: Function And Process User Interface: Title Bar, Menu Bar, Color Palette, And Toolbox
	29-07-2024 to 31-07-2024	Page Counter Bar: Add Page, Remove Page And master Pages .
August	01-08-2024 to 03-08-2024	Create And Edit Geometric and Organic Shapes: Bezier, Linear, Angular
	05-08-2024 to 10-08-2024	Smooth And Close Path. View Modes: Normal, Wireframe, Draft, Enhanced And pixels
	12-08-2024 to 14-08-2024	Selection And Distributing: Skewing, Blending, Curve Lines, Straight Lines, Rotating An object, Group And
	16-08-2024 to 17-08-2024	Ungroup, Break Apart And colouring. Shape Tools - Weld
	20-08-2024 to 24-08-2024	Trim, Intersect, Simplify, And Front minus Back, Back Minus Front Font and Different Types of Font Family's: Application and Characteristics
	27-08-2024 to 31-08-2024	Text Tool: Entering Artistic Text, Entering Paragraph text
September	02-9-2024 to 07-10-2024	Converting Text Formatting Text, Font Size Characteristics Image Tool: Import, Trace and Edit Then Export
	09-9-2024 to 14-10-2024	Color: Color Scheme, Color Theory, Gradient Tool, Effects - Lens, Power Clip, Perspective, Rollover, Convert to Bitmap
	16-9-2024 to 21-10-2024	Page Setup: Size Setup And edit Business Card: Size, Elements And functions
	23-9-2024 to 30-10-2024	Poster: Size, Element, Characteristics And functions
October	01-10-2024 to 05-11-2024	Logo: Types, Process And characteristics
	07-10-2024 to 11-11-2024	Editing Tools: Attach, Detach Bevel, Chamfer, Extrude
	14-10-2024 to 26-10-2024	Bridge, Insert Vertex, Weld, Target Weld, Connect
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Adobe In design: Interface, Menu And toolbar
	11-11-2024 to 16-11-2024	Master Page: Function And Characteristics Managing and Transforming Objects Text Formatting: Heading and Body Text
	18-11-2024 to 22-11-2024	Column And Layout: Functions Graphics, Styles Sheet and Pre-Flight, Printing Pdf

LESSON PLAN

Session:2024-25   **Class: B.Sc. (MM)1st Semester**

Subject: Arts & Creativity   **Paper: B23-MMT-101**

Teacher Incharge: Ms. Taranjeet

Month	Week	Topic
July	22-07-2024 to 27-07-2024	Art: Meaning And Definition of Art
	29-07-2024 to 31-07-2024	Indian Aesthetics: Ras, Bhav, Shadaang
August	01-08-2024 to 03-08-2024	Auchitya, Alankaar, Rasa, Nispatti
	05-08-2024 to 10-08-2024	Elements of art: Point, Line, Form, Shape, Space, Colour, Texture,
	12-08-2024 to 14-08-2024	Understanding Of Light and Shadow
	16-08-2024 to 17-08-2024	Perception Of Color and Color Wheel
	20-08-2024 to 24-08-2024	Principles of art: Balance, Rhythm, Harmony, Contrast, Proportion,
	27-08-2024 to 31-08-2024	Unity Perspectives on The Creative Process Landscapes and Composition
September	02-9-2024 to 07-10-2024	Techniques of Different Art Styles: Water Color, Acrylic Painting, Pencil Color, Spray Painting, Pastel Color
	09-9-2024 to 14-10-2024	Design: Concept,2D Shape Design, Character Designing: Creating Appealing Characters with A Distinctive Personality
	16-9-2024 to 21-10-2024	Creating A Range of Characters That Work Together as A "Cast"
	23-9-2024 to 30-10-2024	Typography And Its Types
October	01-10-2024 to 05-11-2024	Calligraphy
	07-10-2024 to 11-11-2024	Digital Tools: Overview Of Photoshop
	14-10-2024 to 26-10-2024	Interface Understanding of Pen Tool, Brush Tool
	27-10-2024 to 30-10-2024	Diwali Vacations

November	04-11-2024 to 09-11-2024	Brush Panel Shading and Painting Techniques In Photoshop
	11-11-2024 to 16-11-2024	Use Of Opacity, Flow and Pattern
	18-11-2024 to 22-11-2024	Digital Painting

LESSON PLAN

Session: 2024-25   **Class: B.Sc. (MM) 1ˢᵗ Semester**

Subject: Introduction to Computer Programming   Paper: B23-MMT-102

Teacher Incharge: Ms. Shivani

Month	Week	Topics
July	22-07-2024 to 27-07-2024	C Fundamentals: Problem Definition, Algorithms,
	29-07-2024 to 31-07-2024	Flow Chart and Their Symbol
August	01-08-2024 to 03-08-2024	Variables, C Token
	05-08-2024 to 10-08-2024	C Expression, Constant
	12-08-2024 to 14-08-2024	Data Types Standard Library: Input/Output
	16-08-2024 to 17-08-2024	Operator And Expression: Precedence of Arithmetic Operations
	20-08-2024 to 24-08-2024	Type Conversion in Expression
	27-08-2024 to 31-08-2024	Operator Precedence and Associability
September	02-09-2024 to 07-09-2024	Managing Input and Output Operations
	09-09-2024 to 14-09-2024	Decision Making Statements
	16-09-2024 to 21-09-2024	Array: One Dimensional Array, Declaration and Initialization of One-Dimensional Array
	24-09-2024 to 30-09-2024	Two-Dimensional Array
October	01-10-2024	Multidimensional Array
	03-10-2024 to 04-10-2024	String: Declaration And Initializing Variable
	07-10-2024 to 11-10-2024	String Handling, Functions: Definition of Functions, Element of User Defined Functions
	14-10-2024 to 16-10-2024	Return Values and Their Types Functions,
	18-10-2024 to 19-10-2024	Function Calls, Function Declaration
	21-10-2024 to 26-10-2024	Recursion

	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Structure And Union: Definition Structure, Declaring Structure Variables
	11-11-2024 to 16-11-2024	Assessing Structure Variable, Structure Initialization
	18-11-2024 to 22-11-2024	Union

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Session: 2024-2025   **Class: B.SC(MM) 1ˢᵗ Semester**

Subject: Fundamentals of Multimedia   **Paper Code: B23-MMT-103**

Teacher Incharge: Ms. Prachi

Month	Week	Topics
July	22-07-2024 To 25-07-2024	Introduction To Multimedia, Categories of Multimedia, Applications of Multimedia, Multimedia Equipment
August	05-08-2024 To 08-08-2024	Key Elements of Multimedia: Text, Audio, Video, Graphics, Animation, Hardware and Software Requirements for Multimedia
	12-08-2024 To 14-08-2024	Multimedia Authoring Tools, Difference Between Hypermedia and Hypertext, Significance of Multimedia, Desktop Publishing Software
	20-08-2024 To 22-08-2024	Categories Of DTP, Basic Design Concepts, Fundamental Principles, User Interface Design, Basic Principles of User Interface Design
	27-08-2024 To 29-08-2024	Hypermedia Authoring Concepts, Hypermedia Design Elements, Principles of Hypermedia
September	02-09-2024 To 05-09-2024	Process of Multimedia Production: Multimedia Production, Phases of Multimedia Production
	09-09-2024 To 12-09-2024	Multimedia Projects and Its Stages, Product Development Life Cycle and Its Stages
	16-09-2024 To 19-09-2024	Various File Formats: Text, Audio, Graphics, And Animation, Multimedia Compression Techniques
	24-09-2024 To 26-09-2024	File Compression Techniques, Creating Web Based Multimedia
October	07-10-2024 To 10-10-2024	Difference Between Lossy and Lossless Compression, Different Techniques Used in Compression

	14-10-2024 To 17-10-2024	Video Compression Techniques, Introduction to Animation, Types of Animation Techniques
	21-10-2024 To 24-10-2024	Use of Animation in Multimedia, Difference Between Multimedia and Animation, Basic Principles of Animation
Vacations	27-10-2024 To 03-11-2024	Diwali Vacations
November	04-11-2024 To 07-11-2024	Animation Software, Difference Between 2D And 3D Animation
	11-11-2024 To 14-11-2024	Audio And Video Integration Understanding Basics, Basic Audio and Video Integration Techniques
	18-11-2024 To 21-11-2024	Animation Effects, Production Process of Animation Step by Step

LESSON PLAN

Session: 2024-2025   **Class: B.SC(MM) 1st Semester**

Subject: Computer Application   **Paper Code-B23-MMT-104**

Teacher Incharge : Divya Sharma

MONTH	WEEK	TOPICS
July	22-07-2024 to 27-07-2024	Origin Of Computers
	29-07-2024 to 31-07-2024	Evolution And Generation of Computer
August	03-08-2024 to 10-08-2024	Characteristics of Computer
	12-08-2024 to 17-08-2024	Types of Computers
	20-08-2024 to 24-08-2024	Block Diagram of Computer
	27-08-2024 to 31-08-2024	Basic Components of Computer, Input Devices
September	02-09-2024 to 07-09-2024	Output Devices
	09-09-2024 to 14-09-2024	Storage Organization: Primary & Secondary Storage
	16-09-2024 to 21-09-2024	Introduction To Software
	23-09-2024 to 30-09-2024	Types Of Software: System Software, Application Software, Utility Software
October	05-10-2024 to 12-10-2024	Operating System And Its Functions
	14-10-2024 to 19-10-2024	Introduction To MS Windows And Its Various Versions
	21-10-2024 to 26-10-2024	Introduction To MS Word And its Uses
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	Various Menus, Toolbars & Buttons, Paragraph And Page Formatting, Creation And Working With Tables, Mail Merge
	11-11-2024 to 16-11-2024	Introduction To MS Power Point and Its Uses
	18-11-2024 to 22-11-2024	Creating New Presentation

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Session:2024-25   **Class: B.Sc.(C. Sc) III Sem.B.Sc (N.M.) 3rd Sem.**

Subject: Data Management   **Paper: B23-SEC-302**

Teacher Incharge: Ms. Amrita

Month	Week	Topic
July	22-07-2024 to 27-07-2024	Database Management System – Introduction and Purpose
	29-07-2024 to 31-07-2024	Database Architectures: Centralised, Client-Server, Parallel, Distributed,
August	01-08-2024 to 03-08-2024	Web based system: Web architecture (2 tier, 3 tier, N-tier Architecture)
	05-08-2024 to 10-08-2024	Database Storage Structures: Introduction,
	12-08-2024 to 14-08-2024	Hashing, Data Dictionary, Data Models: Introduction to various data models,
	16-08-2024 to 17-08-2024	Cardinality Ratio & Relationships, Representation of entities, attributes,
	20-08-2024 to 24-08-2024	relationship attributes, relationship set,
	27-08-2024 to 31-08-2024	Generalization, aggregation, Structure of relational Database and different types of keys
September	02-9-2024 to 07-09-2024	Codd's rules and Relational data model
	09-9-2024 to 14-09-2024	Relational Database design: Basic System Development Life Cycle
	16-9-2024 to 21-09-2024	Database Design – ER to Relational
	23-9-2024 to 30-09-2024	Functional dependencies, Normalization, Normal forms based on primary keys (1NF, 2NF,3NF)
October	01-10-2024 to 05-10-2024	SQL queries: SQL data definition
	07-10-2024 to 11-10-2024	data types, specifying constraints,
	14-10-2024 to 26-10-2024	Queries for retrieval
	27-10-2024 to 30-10-2024	Diwali Vacations
November	04-11-2024 to 09-11-2024	insertion, deletion,
	11-11-2024 to 16-11-2024	Updation, introduction to views
	18-11-2024 to 22-11-2024	Revision

LESSON PLAN

Session: 2024-25   **Class: M. Sc- 1ˢᵗ Semester**

Subject: Mathematical Foundation of Computer Science   Paper: M24-CSE-101

Teacher Name: Ms. Raman Preet Kaur

Month	Week	Topics
August	01-08-2024 To 03-08-2024	Mathematical Logic: Propositional Calculus - Propositions and Connectives,
	05-08-2024 To 10-08-2024	Semantics - Truth Assignment and (Truth Tables, Validity and Satisfiability, Tautology
	12-08-2024 To 14-08-2024	Adequate Set of Connectives; Equivalence and Normal Forms; Compactness and Resolution;
	16-08-2024 To 17-08-2024	Formal Reducibility - Natural Deduction System and Axioms] System; Soundness and Completeness
	20-08-2024 To 24-08-2024	Revision
	27-08-2024 To 31-08-2024	Combinatorics: Basic Counting Functions, Recurrence Relations. Pigeon Hole Principle.
September	02-09-2024 To 07-09-2024	Structured Sets: Set, Relation homomorphism, Cosets, Ring and Field Sum And Product, Balls and Bins Problems
	09-09-2024 To 14-09-2024	Generating Functions, Recurrence Relations. Proof Techniques,
	16-09-2024 To 21-09-2024	Principle Of Mathematical Induction, Pigeonhole Principle.
	24-09-2024 To 28-09-2024	Structured Sets: Set, Relation - Algebraic System: Groups, Semi Groups, Monoid
	30-09-2024	Homomorphism, Cosets, Ring Field (Definition), Relation, Equivalence Relations
October	01-10-2024	Poset, Lattices, Hasse Diagram, Boolean Algebra
	03-10-2024 To 04-10-2024	Revision
	07-10-2024 To 11-10-2024	Graph Theory: Introduction - Graph Terminologies - Types of Graphs - Sub Graph- Multi Graph Regular Graph
	14-10-2024 To 16-10-2024	Isomorphic Graphs Sub-Graph Euler Graph- Hamiltonian Graph –Related Problems.
	18-10-2024 To 19-10-2024	Test
	21-10-2024 To 26-10-2024	Revision
	27-10-2024 To 03-11-2024	**Diwali Vacations**
November	04-11-2024 To 09-11-2024	Trees –Properties- Distance and Centers Types- Rooted Tree- Tree Enumeration
	11-11-2024 To 14-11-2024	Labeled Tree-Unlabeled Tree-Spanning Tree
	16-11-2024	Fundamental Circuits-Cut Sets-Properties
	18-11-2024 To 23-11-2024	Fundamental Circuits-Cut Sets-Connectivity, Separability-Related Problems.
	25-11-2024 To 30-11-2024	Revision

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LESSON PLAN

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Session: 2024-25   **Class: M.SC 1st Semester**

Subject: Advanced Data Structure and Algorithms   **Paper code:MSC-CSE-103**

Teacher Name: Aarti Dhiman

Month	Week		Topics
July	22-07-2024 27-07-2024	To	Trees AVL Trees, Splay Trees, B-Trees, Red-Black Trees
	29-07-2024 31-07-2024	To	Heaps: Binomial Heaps, Fibonacci Heaps, Pairing Heaps
August	01-08-2024 03-08-2024	To	Pairing Gea heaps
	05-08-2024 10-08-2024	To	Depth First Search (DFS)
	12-08-2024 14-08-2024	To	Breadth First Search (BFS)
	16-08-2024 17-08-2024	To	Strongly Connected Components (SCC)
	20-08-2024 24-08-2024	To	Memory Allocation System
	27-08-2024 31-08-2024	To	Memory Pool Allocation
September	02-09-2024 07-09-2024	To	Garbage Collection Algorithms
	09-09-2024 14-09-2024	To	Graph Algorithms: Shortest Path Algorithms (Dijkstra's, Bellman-Ford
	16-09-2024 21-09-2024	To	Minimum Spanning Tree (Kruskal's. Prim's), Network Flow (Ford-Fulkerson, Edmonds-Karp)
	24-09-2024 28-09-2024	To	Dynamic Programming: Matrix Chain Multiplication
	30-09-2024 To 01-10-2024		Longest Common Subsequences (LCS) Knapsack Problems
October	03-10-2024 04-10-2024	To	Travelling Salesman Problem (TSP)
	07-10-2024 11-10-2024	To	Approximations Algorithms' Introduction to NP Completeness
	14-10-2024 16-10-2024	To	Approximations Techniques (Greedy, Local search, Linear Programming)
	18-10-2024 19-10-2024	To	Specific Problem (Vertex Cover, Travelling Salesman Problem, Set Cover
	21-10-2024 26-10-2024	To	Parallel Algorithm: Introduction To Parallel Computing
	27-10-2024 03-11-2024	To	Diwali Vacation

November	04-11-2024	To 09-11-2024	Parallel Sorting (Bitonicsort, Parallel Merge Sort)
	16-11-2024	To 22-11-2024	Parallel Graph Algorithm (Parallel BFS, Parallel DFS), Parallel Algorithm and Analysis

LESSON PLAN

Session: 2024-25   **Class: M. Sc- 1ˢᵗ Semester**

Subject: Object-Oriented Programming with Java   Paper: M24-CSE-104

Teacher Name: Aarti Dhiman

Month	Week	Topics
August	01-08-2024 to 03-08-2024	Introduction To Java: History Features, And Applications; Basics of Java Programming: Syntax, Variables, Data Types, Operators,
	05-08-2024 to 10-08-2024	Expressions, And Statements; Control Flow: Decision-Making Statements (If, Else-if, Switch), Looping Statements (For, While, Do-While),
	12-08-2024 to 14-08-2024	Methods: Declaring Methods, Passing Parameters, Method Overloading, And Recursion;
	16-08-2024 to 17-08-2024	Arrays: Declaring, Initializing, And Manipulating Arrays
	20-08-2024 to 24-08-2024	Array Operation and Algorithms
	27-08-2024 to 31-08-2024	Classes And Objects: Declaring Classes, Creating Objects, Constructor
September	02-09-2024 to 07-09-2024	Encapsulation: Access Modifiers (Public, Private, Protected, Default), Getters, and setters; Inheritance
	09-09-2024 to 14-09-2024	Extending Classes, Method Overriding, Super Keyword, And Method Overloading;
	16-09-2024 to 21-09-2024	Polymorphism: Method Overriding, Dynamic Method Dispatch
	24-09-2024 to 28-09-2024	Abstract Classes; Interfaces: Defining Interfaces
	30-09-2024	Implementing Interfaces, And Using Interface Reference
October	01-10-2024	Package Creating Using Packages, Importing Classes and Packages.
	03-10-2024 to 04-10-2024	Exception Handling: Understanding Exceptions, Try-Catch Block
	07-10-2024 to 11-10-2024	Keywords And Finally Block, File Handling Reading and Writing Files Using File Input/output Stream
	14-10-2024 to 16-10-2024	File output stream, File reader
	18-10-2024 to 19-10-2024	Filewriter, Multithreading, Creating Using Thread Lifecycle
	21-10-2024 to 26-10-2024	Synchronization Thread Communication. Applet Programming, Applet Life Cycle, Applet Graphic Programming
	27-10-2024 to 03-11-2024	**Diwali Vacations**
	04-11-2024 to 09-11-2024	Event Handling: AWT Classes, ActionListener, Mouse listener. Mouse motion listener, Layout Managers
	11-11-2024 to 14-11-2024	Generics: Introduction To Generis, Generic Classes. Generic Methods, Java Database Connectivity (JDBC)

November	16-11-2024	Connecting To Databases. Execuring SQL Queries, Handling Transaction
	18-11-2024 to 23-11-2024	Managing Resources: Gui Programming: Introduction to Swings
	25-11-2024 to 30-11-2024	Creating Graphical User Interface (GUI), Event Handling, Layout Management

Session: 2024-25   **Class: BCA- 5th Semester**
Subject: Operating System – I   **Paper: BCA-352**
Teacher Incharge: Ms. Aarti Dhiman

Month	Week	Topics
July	22-07-2024 to 27-07-2024	Operating System: Definition, Characteristics, Components, Functions Examples,
	29-07-2024 to 31-07-2024	Types of Operating System : Single User/ Multi User
August	01-08-2024 to 03-08-2024	Classification of Operating System: Batch, Multi programmed
	05-08-2024 to 10-08-2024	Timesharing, Multiprocessing, Parallel, Distributed, Real Time, System Calls and System Programs: Process Concept, Process state
	12-08-2024 to 14-08-2024	Process Control Block, Process Scheduling, Scheduling Queues, Schedulers, Context Switch
	16-08-2024 to 17-08-2024	Operation on Processes: Process Creation, Process Termination, Cooperating Processes
	20-08-2024 to 24-08-2024	Introduction to Threads, Inter-process Communication, CPU Scheduling : Basic Concepts,
	27-08-2024 to 31-08-2024	Scheduling Criteria, Scheduling Algorithms: FCFS, SJF
September	02-09-2024 to 07-09-2024	Scheduling Algorithms: Priority, Round- Robin, Multilevel Queue , Multilevel Feedback Queue Scheduling
	09-09-2024 to 14-09-2024	Deadlocks: System Model, Deadlock Characterization, Methods of Handling Deadlocks, Deadlock Prevention
	16-09-2024 to 21-09-2024	Deadlock Avoidance, Deadlock Detection and Recovery, Memory Management : Introduction, Swapping
	24-09-2024 to 28-09-2024	Contiguous Allocation: Single – Partition/ Multiple Partition Allocation
	30-09-2024	External/ Internal Fragmentation, Paging: Basic Method
October	01-10-2024	Hardware , Implementation of Page Table
	03-10-2024 to 04-10-2024	Segmentation: Basic Method, Hardware, Implementation of Segment table
	07-10-2024 to 11-10-2024	Advantage / disadvantage of Paging/ Segmentation
	14-10-2024 to 16-10-2024	Virtual Memory: Introduction, Demand Paging,
	18-10-2024 to 19-10-2024	Page replacement
	21-10-2024 to 26-10-2024	Page Replacement Algorithm : FIFO , Optimal, LRU, Counting, Thrashing and its cause
	27-10-2024 to 03-11-2024	Diwali vacation
November	04-11-2024 to 09-11-2024	File management: file concepts, file attributes, file operations
	16-11-2024 to 22-11-2024	File Access/Allocation methods, File Protection, file Recovery