Lesson Plan

Session 2025-2026   **Class- B.A. I Semester**

Subject: Office And Spreadsheet Tools Learning   **Paper Code– B23-SEC-101**

Teacher Name- Ms. Ramanpreet Kaur & Ms. Divya Sharma

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Operating System: Definition, Function of Operating systems
	28-07-2025 To 31-07-2025	Types of Operating System, Basics of Operating System
August	01-08-2025 To 09-08-2025	The User Interface, Exploring Computer
	11-08-2025 To 16-08-2025	Icons, Taskbar, Desktop, Using Menus
	18-08-2025 To 23-08-2025	Menu Selection, Managing Files and Folders
	25-08-2025 To 30-08-2025	Control Panel- Display Properties, Add/Remove Hardware and Software
September	01-9-2025 To 06-9-2025	Common Utilities, Introduction to Word Processing Menus, Creating, Editing & Formatting Documents
	08-9-2025 To 13-9-2025	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros
	15-9-2025 To 20-9-2025	Inserting Hyperlinks, Searching for Text, Modifying Page Setup, Applying Document's Themes
	22-9-2025 To 30-9-2025	Applying Documents Styles Sets, Inserting Header and Footers
October	01-10-2025 To 04-10-2025	Spreadsheet: Elements Of Electronic Spreadsheet, Application, Creating and Opening of Spreadsheet,
	06--10-2025 To 11-10-2025	Menus, Manipulations of Cells, Enter Text Numbers and Dates
	13-10-2025 To 18-10-2025	Cell Height and Width, Copying of Cells, Mathematical, Statistical, Financial Functions
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Using Sound, Animation, Working with Objects, Printing
November	01-11-2025 To 08-11-2025	Creating, Modifying and Enhancing a Presentation, Types of Presentation Views
	10-11-2025 To 15-11-2025	Drawing Different Types of Charts, Sort and Filter Data

Lesson Plan

Session-2025-2026   Class: B.A. (Comp.Sc.) – I Semester
Subject: Problem Solving through C   Paper Code: B23-CSE-101
Teacher Incharge: Mrs. Ritu Rohilla

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Overview Of C: History, Importance, Structure of C Program,
	28-07-2025 To 31-07-2025	Character Set, Constants and Variables, Identifiers and Keywords
August	01-08-2025 To 09-08-2025	Data Types, Assignment Statement, Symbolic Constant.
	11-08-2025 To 16-08-2025	Input/Output: Formatted I/O Function-
	18-08-2025 To 23-08-2025	Input Functions Viz. Scanf(), Getch(), Getche(), Getchar (), Gets(),
	25-08-2025 To 30-08-2025	Output Functions Viz. Printf(), Putch(), Putchar(), Puts().
September	01-9-2025 To 06-9-2025	Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators
	08-9-2025 To 13-9-2025	Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression, Type Casting and Conversion.
	15-9-2025 To 20-9-2025	Decision Making with If Statement, If Else Statement, Nested If Statement, Else-If Ladder, Switch and Break Statement, Go to Statement,
	22-9-2025 To 30-9-2025	Looping Statements: For, While, And Do While Loop, Jumps in Loops.
October	01-10-2025 To 04-10-2025	Arrays: One Dimensional Arrays - Declaration, Initialization and Memory Representation; Two Dimensional Arrays -Declaration, Initialization and Memory Representation.
	06--10-2025 To 11-10-2025	Functions: Definition, Prototype, Function Call, Passing Arguments to Function: Call by Value; Call by Reference, Recursive Functions.
	13-10-2025 To 18-10-2025	Strings: Declaration And Initialization, String I/O, Array of Strings, String Manipulation Functions: String Length, Copy, Compare,Concatenate Etc., Search for a Sub String.
	20-10-2025 To 25-10-2025	Diwali Vacations
	27-10-2025 To 31-11-2025	Pointers In C: Declaring And Initializing Pointers, Accessing Address and Value of Variables Using Pointers; Pointers and Arrays.
November	01-11-2025 To 08-11-2025	User Defined Data Types: Structures - Definition, Advantages of Structure, Declaring Structure Variables, Accessing Structure Members, Structure Members Initialization
	10-11-2025 To 15-11-2025	Array Of Structures; Unions - Union Definition; Difference Between Structure and Union.

Lesson Plan

Session-2025-2026   **Class: B.Sc. (Comp.Sc.) – I Semester**
Subject: Problem Solving through C   **Paper Code: B23-CSE-101**
Teacher Incharge: Mrs. Ritu Rohilla

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Overview Of C: History, Importance, Structure of C Program,
	28-07-2025 To 31-07-2025	Character Set, Constants and Variables, Identifiers and Keywords
August	01-08-2025 To 09-08-2025	Data Types, Assignment Statement, Symbolic Constant.
	11-08-2025 To 16-08-2025	Input/Output: Formatted I/O Function-
	18-08-2025 To 23-08-2025	Input Functions Viz. Scanf(), Getch(), Getche(), Getchar (), Gets(),
	25-08-2025 To 30-08-2025	Output Functions Viz. Printf(), Putch(), Putchar(), Puts().
September	01-9-2025 To 06-9-2025	Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators
	08-9-2025 To 13-9-2025	Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression, Type Casting and Conversion.
	15-9-2025 To 20-9-2025	Decision Making with If Statement, If Else Statement, Nested If Statement, Else-If Ladder, Switch and Break Statement, Go to Statement,
	22-9-2025 To 30-9-2025	Looping Statements: For, While, And Do While Loop, Jumps in Loops.
October	01-10-2025 To 04-10-2025	Arrays: One Dimensional Arrays - Declaration, Initialization and Memory Representation; Two Dimensional Arrays -Declaration, Initialization and Memory Representation.
	06--10-2025 To 11-10-2025	Functions: Definition, Prototype, Function Call, Passing Arguments to Function: Call by Value; Call by Reference, Recursive Functions.
	13-10-2025 To 18-10-2025	Strings: Declaration And Initialization, String I/O, Array of Strings, String Manipulation Functions: String Length, Copy, Compare,Concatenate Etc., Search for a Sub String.
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Pointers In C: Declaring And Initializing Pointers, Accessing Address and Value of Variables Using Pointers; Pointers and Arrays.
November	01-11-2025 To 08-11-2025	User Defined Data Types: Structures - Definition, Advantages of Structure, Declaring Structure Variables, Accessing Structure Members, Structure Members Initialization
	10-11-2025 To 15-11-2025	Array Of Structures; Unions - Union Definition; Difference Between Structure and Union.

<div align="center">**Lesson Plan**</div>

Session: 2025-2026   **Class: B.Sc. Non-Med.- I Semester (Minor)**
Subject: Basics of Computer Science   **Paper Code: B23-CSE-103**
Teacher Incharge: Ms. Neha Saini

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Introduction To Computers: Definition Of Computers, History and Generations of Computers
	28-07-2025 To 31-07-2025	Characteristics Of Computer, Classification of Computers
August	01-08-2025 To 09-08-2025	Fundamental Block Diagram of Computer: CPU, Input & Output Unit
	11-08-2025 To 16-08-2025	Software: Definition Of Software, Types of Software-System Software
	18-08-2025 To 23-08-2025	Application Software and Utility Software, Types Of Computer Languages, Assemblers, Interpreters, Compiler
	25-08-2025 To 30-08-2025	Introduction To Operating Systems: Types Of Operating System, Functions Of Operating System
September	01-9-2025 To 06-9-2025	Windows: Introduction To Windows, Starting Windows, Desk Top, Task Bar, Opening and Closing Applications
	08-9-2025 To 13-9-2025	Icons- Creating, Renaming and Removing
	15-9-2025 To 20-9-2025	Date And Time Setting, Working with Files and Folders-Creating
	22-9-2025 To 30-9-2025	Deleting, Opening, Finding, Copying, Moving, And Renaming
October	01-10-2025 To 04-10-2025	Networking: Concept, Basic Elements of a Communication System
	06--10-2025 To 11-10-2025	Data Transmission Media, LAN, MAN, WAN
	13-10-2025 To 18-10-2025	Introduction Of Internet and Www
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Basic Working of a Web Browser,
November	01-11-2025 To 08-11-2025	Introduction to Popular Web Browsers
	10-11-2025 To 15-11-2025	Revision Sessions

Lesson Plan

Session:2025-2026   **Class: B.A. BED 1ST SEM**
Subject: Information and Communication Technology (Ict) In Education-I   Paper: AEC2(I)
Teacher Incharge: Ms. Aarti Dhiman

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	How Technology Enhance Learning: Basic Theories of Communication, System Theory and Learning Theory
	28-07-2025 To 31-07-2025	Historical Account of The Development of Various Educational Media (Audio, Video, Print, Storage, Display, Projection)
August	01-08-2025 To 09-08-2025	Communication Process and Role of Technology in Communication, Information and Communication Technology: Meaning, Nature and Advantages
	11-08-2025 To 16-08-2025	Media Literacy and Digital Literacy-Need and Importance, Digital Divide and Enhancing Access, National ICT Policies, Curriculum, Schemes and Programs
	18-08-2025 To 23-08-2025	Cyber Security: Privacy, Hacking, Virus, Spy Ware, Misuse, Abuse, Antivirus, Firewall, And Safe and Ethical Practices
	25-08-2025 To 30-08-2025	Computer Hardware Fundamentals (Anatomy, Input Devices, Output Devices, Storage Devices, Display Devices)
September	01-9-2025 To 06-9-2025	Computer Networks-LAN, WAN, Internet –Concept and Architecture; Locating Internet Resources – Browsing, Navigating, Searching, Selecting, Evaluating, Saving and Book Marking
	08-9-2025 To 13-9-2025	Licenses – Software License, Document License, Fare Use and Privacy; File Formats and Conversion, Utility Tools, Cloud Computing: Meaning, Types, And Advantages
	15-9-2025 To 20-9-2025	Digitalization, Software- Meaning and Types Source And Binary Code, Proprietary Software, Open-Source Software Shareware And Freeware – Concept, Philosophy, Types, And Advantages
	22-9-2025 To 30-9-2025	Operating System - Meaning, Types- Windows, Linux, Macintosh Navigating The Desktop, Control Panel, File Manager, Explorer, And Accessories
October	01-10-2025 To 04-10-2025	Software As Service - Online Software Tools and Applications and Their Educational Use Managing The ICT Infrastructure: Software Installation, Troubleshooting of Hardware
	06--10-2025 To 11-10-2025	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)
	13-10-2025 To 18-10-2025	Drawing Tools- Diagram, Concept Maps, Timelines, Flow Charts: Educational Applications of These Tools Web 2.0 Technology and Tools: Meaning, Characteristics and Types
	20-10-2025 To 25-10-2025	Diwali Vacations
	27-10-2025 To 31-11-2025	Social Networking and Social Bookmarking- Educational Applications Blog And Micro Blog – Reflective Journaling and Other Educational Applications
November	01-11-2025 To 08-11-2025	Wiki- Collaborative Authoring and Projects, Instant Messaging and Its Educational Applications, Social Media Sharing – Video, Presentations, Audio (Podcasts), Graphics, And Text;
	10-11-2025 To 15-11-2025	Web 2.0 Tools for Creating, Sharing, Collaborating, Networking

Lesson Plan

Session: 2025-2026   **Class: BA I Semester**
Subject: Fundamental of Computer Science   **Paper: B23-CSE-104**
Teacher Incharge: Ms. Ramanpreet Kaur

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Computer Fundamentals: Evolution Of Computers Through Generations, Characteristics of Computers, Strengths and Limitations of Computers
	28-07-2025 To 31-07-2025	Classification of Computers, Functional. Computer Fundamentals: Evolution Of Computers Through Generations,
August	01-08-2025 To 09-08-2025	Characteristics Of Computers, Strengths and Limitations of Computers, Classification of Computers, Functional Components of a Computer System, Applications of Computers in Various Fields
	11-08-2025 To 16-08-2025	Types Of Software: System Software, Application Software, Utility Software
	18-08-2025 To 23-08-2025	Memory Systems: Concept Of Bit, Byte, Word, Nibble, Storage Locations and Addresses, Measuring Units of Storage Capacity, Access Time
	25-08-2025 To 30-08-2025	Concept Of Memory Hierarchy. Primary Memory – Ram, Rom, Prom, Eprom.
September	01-9-2025 To 06-9-2025	Secondary Memory – Types of Storage Devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
	08-9-2025 To 13-9-2025	I/O Devices: I/O Ports of a Desk Top Computer, Device Controller, Device Driver. Input Devices: Classification And Use, Keyboard
	15-9-2025 To 20-9-2025	Pointing Devices – Mouse, Touch Pad and Track Ball, Joystick, Magnetic Stripes, Scanner, Digital Camera, And Microphone Output Devices:
	22-9-2025 To 30-9-2025	Speaker, Monitor, Printers: Classification, Laser, Ink Jet, DotMatrix. Plotter.
October	01-10-2025 To 04-10-2025	Introduction To Operating System: Definition, Functions, Features Of Operating System, Icon, Folder, File, Start Button, Task Bar, Status Buttons
	06--10-2025 To 11-10-2025	Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
	13-10-2025 To 18-10-2025	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.
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Message Components, Message Composition, Mailer Features Browsers and Search Engines.
November	01-11-2025 To 08-11-2025	Operating System: Starting With Basics of Operating Systems and Its Functionalities Computer Basics: Identify The Various Computer Hardware.
	10-11-2025 To 15-11-2025	Understanding The Working of Computer Understanding Various Types of Software Internet and E-Mail: Using Internet for Various Tasks, Creating and Using E-Mail.

Lesson Plan

Session:2025-2026   **Class: B.Sc. BED 1ST SEM**
Subject: Information and Communication Technology (Ict) In Education-I   Paper: AEC2(I)
Teacher Incharge: Ms. Aarti Dhiman

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	How Technology Enhance Learning: Basic Theories of Communication, System Theory and Learning Theory
	28-07-2025 To 31-07-2025	Historical Account of The Development of Various Educational Media (Audio, Video, Print, Storage, Display, Projection)
August	01-08-2025 To 09-08-2025	Communication Process and Role of Technology in Communication, Information and Communication Technology: Meaning, Nature and Advantages
	11-08-2025 To 16-08-2025	Media Literacy and Digital Literacy-Need and Importance, Digital Divide and Enhancing Access, National ICT Policies, Curriculum, Schemes and Programs
	18-08-2025 To 23-08-2025	Cyber Security: Privacy, Hacking, Virus, Spy Ware, Misuse, Abuse, Antivirus, Firewall, And Safe and Ethical Practices
	25-08-2025 To 30-08-2025	Computer Hardware Fundamentals (Anatomy, Input Devices, Output Devices, Storage Devices, Display Devices)
September	01-9-2025 To 06-9-2025	Computer Networks-LAN, WAN, Internet –Concept and Architecture; Locating Internet Resources – Browsing, Navigating, Searching, Selecting, Evaluating, Saving and Book Marking
	08-9-2025 To 13-9-2025	Licenses – Software License, Document License, Fare Use and Privacy; File Formats and Conversion, Utility Tools, Cloud Computing: Meaning, Types, And Advantages
	15-9-2025 To 20-9-2025	Digitalization, Software- Meaning and Types Source And Binary Code, Proprietary Software, Open-Source Software Shareware And Freeware – Concept, Philosophy, Types, And Advantages
	22-9-2025 To 30-9-2025	Operating System - Meaning, Types- Windows, Linux, Macintosh Navigating The Desktop, Control Panel, File Manager, Explorer, And Accessories
October	01-10-2025 To 04-10-2025	Software As Service - Online Software Tools and Applications and Their Educational Use Managing The ICT Infrastructure: Software Installation, Troubleshooting of Hardware
	06--10-2025 To 11-10-2025	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)
	13-10-2025 To 18-10-2025	Drawing Tools- Diagram, Concept Maps, Timelines, Flow Charts: Educational Applications of These Tools Web 2.0 Technology and Tools: Meaning, Characteristics and Types
	20-10-2025 To 25-10-2025	Diwali Vacations
	27-10-2025 To 31-11-2025	Social Networking and Social Bookmarking- Educational Applications Blog And Micro Blog – Reflective Journaling and Other Educational Applications
November	01-11-2025 To 08-11-2025	Wiki- Collaborative Authoring and Projects, Instant Messaging and Its Educational Applications, Social Media Sharing – Video, Presentations, Audio (Podcasts), Graphics, And Text;
	10-11-2025 To 15-11-2025	Web 2.0 Tools for Creating, Sharing, Collaborating, Networking

Lesson Plan

Session: 2025 -2026   **Class: BCA- 1st Semester**
Subject: Problem Solving through C   **Paper: B23-CAP-101**
Teacher: Ms. Rita

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Overview Of C: History, Importance, Structure Of C Program
	28-07-2025 To 31-07-2025	Character Set, Constants And Variables
August	01-08-2025 To 09-08-2025	Identifiers And Keywords, Data Types, Assignment Statement, Symbolic Constant.
	11-08-2025 To 16-08-2025	Input/Output: Formatted I/O Function-, Input Functions Viz. Scanf(), Getch(), Getche().
	18-08-2025 To 23-08-2025	Getchar(), Gets(), Output Functions Viz. Printf(), Putch(), Putchar(), Puts().
	25-08-2025 To 30-08-2025	Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Conditional Operators And Special Operators Operator Hierarchy
September	01-9-2025 To 06-9-2025	Arithmetic Expressions, Evaluation Of Arithmetic Expression, Type Casting And Conversion.
	08-9-2025 To 13-9-2025	Decision Making With If Statement, If Else Statement, Nested If Statement Else-If Ladder, Switch And Break Statement, Goto Statement.
	15-9-2025 To 20-9-2025	Looping Statements: For, While, And Do While Loop, Jumps In Loops
	22-9-2025 To 30-9-2025	Arrays: One Dimensional Arrays - Declaration, Initialization And Memory Representation; Two Dimensional Arrays - Declaration, Initialization And Memory Representation
October	01-10-2025 To 04-10-2025	Functions: Definition, Prototype, Function Call, Passing Arguments To A Function: Call By Value; Call By Reference, Recursive Functions.
	06--10-2025 To 11-10-2025	Strings: Declaration And Initialization, String I/O, Array Of Strings, String
	13-10-2025 To 18-10-2025	Manipulation Functions: String Length, Copy, Compare, Concatenate Etc., Search For A Substring.
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Pointers In C: Declaring And Initializing Pointers, Accessing Address And Value Of Variables Using Pointers; Pointers And Arrays.
November	01-11-2025 To 08-11-2025	User Defined Data Types: Structures - Definition, Advantages Of Structure, Declaring Structure Variables, Accessing Structure Members
	10-11-2025 To 15-11-2025	Structure Members Initialization, Array Of Structures; Unions - Union Definition; Difference Between Structure And Union.

Lesson Plan

Session: 2025 -2026   **Class: BCA- 1st Semester**
Subject: Foundations of Computer Science   **Paper: B23-CAP-102**
Teacher: Ms. Neha Saini

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Computer Fundamentals: Evolution Of Computers Through Generations, Characteristics Of Computers,
	28-07-2025 To 31-07-2025	Strengths And Limitations Of Computers.
August	01-08-2025 To 09-08-2025	Classification Of Computers, Functional Components Of A Computer System, Applications Of Computers In Various Fields.
	11-08-2025 To 16-08-2025	Types Of Software: System Software, Application Software, Utility Software, Shareware, Freeware, Firmware, Free Software.
	18-08-2025 To 23-08-2025	Memory Systems: Concept Of Bit, Byte, Word, Nibble, Storage Locations And Addresses, Measuring Units Of Storage Capacity, Access Time, Concept Of Memory Hierarchy.
	25-08-2025 To 30-08-2025	Primary Memory - RAM, ROM, PROM, EPROM. Secondary Memory - Types Of Storage Devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
September	01-9-2025 To 06-9-2025	I/O Devices: I/O Ports Of A Desk Top Computer, Device Controller, Device Driver.
	08-9-2025 To 13-9-2025	Input Devices: Classification And Use, Keyboard, Pointing Devices - Mouse, Touch Pad And Track Ball, Joystick, Magnetic Stripes, Scanner, Digital Camera, And Microphone.
	15-9-2025 To 20-9-2025	Output Devices: Speaker, Monitor, Printers: Classification, Laser, Ink Jet, Dot-Matrix. Plotter.
	22-9-2025 To 30-9-2025	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	01-10-2025 To 04-10-2025	My Computer, My Documents, Windows Explorer, Control Panel. The Internet: Introduction To Networks And Internet, History, Internet
	06--10-2025 To 11-10-2025	Intranet & Extranet, Working Of Internet, Modes Of Connecting To Internet. Electronic Mail: Introduction, Advantages And Disadvantages, User Ids, Passwords.
	13-10-2025 To 18-10-2025	E-Mail Addresses, Message Components, Message Composition, Mailer Features.
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Browsers And Search Engines. Name Of Browsers.
November	01-11-2025 To 08-11-2025	Threats: Physical & Non-Physical Threats, Virus, Worm, Trojan, Spyware, Keylogers, Rootkits, Adware, Cookies, Phishing, Hacking, Cracking. Computer Security
	10-11-2025 To 15-11-2025	Fundamentals: Confidentiality, Integrity, Authentication, NonRepudiation, Security Mechanisms, Security Awareness, Security Policy, Anti-Virus Software & Firewalls, Backup & Recovery.

Lesson Plan

Session: 2025 -2026   **Class: BCA- 1st Semester**
Subject: Logical Organization of Computer   **Paper: B23-CAP-103**
Teacher: Ms. Ramanpreet Kaur

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Number Systems: Binary, Octal, Hexadecimal Etc. Conversions From One Number System to Another, BCD Number System.
	28-07-2025 To 31-07-2025	BCD Codes: Natural Binary Code, Weighted Code, SelfComplimenting Code, Cyclic Code. Error Detecting and Correcting Codes.
August	01-08-2025 To 09-08-2025	Character Representations: ASCII, EBCDIC And Unicode. Number Representations: Integer Numbers - Sign-Magnitude, 1's & 2's Complement Representation.
	11-08-2025 To 16-08-2025	Real Numbers Normalized Real Numbers Normalized
	18-08-2025 To 23-08-2025	Binary Arithmetic: Binary Addition, Binary Subtraction, Binary Multiplication, Binary Division Using 1's and 2's Compliment Representations, Addition and Subtraction with BCD Representations.
	25-08-2025 To 30-08-2025	Boolean Algebra: Boolean Algebra Postulates, Basic Boolean Theorems, Boolean Expressions, Boolean Functions, Truth Tables,
September	01-9-2025 To 06-9-2025	Canonical Representation of Boolean Expressions: SOP And POS, Simplification of Boolean Expressions Using Boolean Postulates & Theorems.
	08-9-2025 To 13-9-2025	Kaurnaugh-Maps (Upto Four Variables), Handling Don't Care Conditions.
	15-9-2025 To 20-9-2025	Logic Gates: Basic Logic Gates – And, Or, Not, Universal Gates – Nand, Nor
	22-9-2025 To 30-9-2025	Other Gates – XOR, XNOR Etc. Their Symbols, Truth Tables and Boolean Expressions.
October	01-10-2025 To 04-10-2025	Combinational Circuits: Design Procedures, Half Adder, Full Adder, Half Subtractor, Full Subtractor,
	06--10-2025 To 11-10-2025	Multiplexers, Demultiplexers, Decoder, Encoder, Comparators, Code Converters.
	13-10-2025 To 18-10-2025	Sequential Circuits: Basic Flip- Flops and Their Working. Synchronous And Asynchronous Flip –Flops, Triggering of Flipflops.
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Clocked RS, D Type, JK, T Type and Master-Slave Flip-Flops. State Table, State Diagram and State Equations.
November	01-11-2025 To 08-11-2025	Flip-Flops Characteristics & Excitation Tables. Sequential Circuits: Designing Registers –Serial-In Serial-Out (SISO), Serial-In ParallelOut (SIPO).
	10-11-2025 To 15-11-2025	Parallel-In Serial-Out (PISO) Parallel-In Parallel-Out (PIPO) And Shift Registers.

<p style="text-align:center"><u>Lesson Plan</u></p>

Session: 2025 -2026   **Class: BCA- 1st Semester**
Subject: Mathematical Foundations for Computer Science-I **Paper: B23-CAP-104**
Teacher: Ms. Sonia

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Sets And their Representations, Empty Set, Finite & Infinite Sets, Subsets, Equal Sets.
	28-07-2025 To 31-07-2025	Power Sets, Universal Set, Union &a Intersection of Sets, Difference of Two Sets.
August	01-08-2025 To 09-08-2025	Complement of a Set, Venn Diagram, De-Morgan's Laws and Their Applications.
	11-08-2025 To 16-08-2025	An Introduction to Matrices and Their Types, Operations on Matrices.
	18-08-2025 To 23-08-2025	Symmetric And Skew-Symmetric Matrices, Minors, Co-Factors.
	25-08-2025 To 30-08-2025	Determinant of A Square Matrix
September	01-9-2025 To 06-9-2025	Adjoint And Inverse of a Square Matrix, Solutions of A System of Linear Equations Up to Order 3.
	08-9-2025 To 13-9-2025	Class Test
	15-9-2025 To 20-9-2025	Quadratic Equations, Solution of Quadratic Equations.
	22-9-2025 To 30-9-2025	Arithmetic Progression, Geometric Progression.
October	01-10-2025 To 04-10-2025	Harmonic Progression, Arithmetic Mean (A.M.), Geometric Mean (G.M.).
	06--10-2025 To 11-10-2025	Harmonic Mean (H.M.), Relation Between A.M., G.M. And H.M.
	13-10-2025 To 18-10-2025	Revision
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Class Test
November	01-11-2025 To 08-11-2025	The Concept of Differentiation, Differentiation of Simple Functions,
	10-11-2025 To 15-11-2025	Differentiation of Simple Algebraic, Trigonometric and Exponential Functions.

Lesson Plan

Session 2025-2026   **Class: B.A.(General) III Semester**

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

Teacher Name: Ms. Aarti Dhiman

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Overview Of C: History, Importance, Structure Of C
	28-07-2025 To 31-07-2025	Character Sets, Constants and Variables, Identifiers and Keyword
August	01-08-2025 To 09-08-2025	Data Types, Assignments Statements, Symbolic Constants
	11-08-2025 To 16-08-2025	Unformatted And formatted i/o Functions, Input Functions Viz. Scanf (), Getch (), GetChar (), Gets ()
	18-08-2025 To 23-08-2025	Output Function Viz. Printf (), Putch (), Putchar (), Puts ()
	25-08-2025 To 30-08-2025	Operator and Expressions: Arithmetical, Relational, Logical,
September	01-9-2025 To 06-9-2025	Bitwise, Unary Assignment, Conditional Operators and Special Operators
	08-9-2025 To 13-9-2025	Operators Hierarchy & Associativity
	15-9-2025 To 20-9-2025	Arithmetic Expressions, Evaluation of Arithmetic Expressions
	22-9-2025 To 30-9-2025	Type Casting and Conversion
October	01-10-2025 To 04-10-2025	Decision Making with If Statement, If –Else Statements, Nested If Statements
	06--10-2025 To 11-10-2025	Else – If Ladder, Switch and Break Statement, Go to Statement
	13-10-2025 To 18-10-2025	Looping: For, While, Do- While, Jumps in Loops
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Functions: Definition, Prototype, Function Call, Passing Arguments to a Function
November	01-11-2025 To 08-11-2025	Arrays: Definition, Types, Initialization, Multidimensional Array, Processing on Arrays
	10-11-2025 To 15-11-2025	Call By Value, Call by Reference, Recursive Functions

Lesson Plan

Session: 2025-2026   **Class: B.Com V Semester**
Subject: Database Management System   **Paper Code: B23-VOC-129**
Teacher Incharge: Ms. Shikha

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Database Management System (DBMS): Concept, data, information, records. files. schema and instance etc
	28-07-2025 To 31-07-2025	Limitations of File-based approach; Characteristics of database approach;
August	01-08-2025 To 09-08-2025	DBMS: Components, functions. database interfaces. advantages and disadvantages: Database Users: Data; Database administrator: Role and responsibilities:
	11-08-2025 To 16-08-2025	Database Designers, application developers etc.; Database System Architecture - 1-Tier. 2-Tier & three levels of architecture;
	18-08-2025 To 23-08-2025	External, conceptual and internal levels, schemas. mappings and instances, data independence - logical and physical data independence.
	25-08-2025 To 30-08-2025	Data Models: Hierarchical, network; Relational data models: Entity-Relationship Model: entity, entity sets, entity type;
September	01-9-2025 To 06-9-2025	Attributes: Type of attributes, keys; Integrity constraints; Designing of ER Diagram; Symbolic notations for designing;
	08-9-2025 To 13-9-2025	ER Diagram. QL: Meaning, purpose and need of SQL; Data Types; SQL Components: DDL, DML, DCL and DQL
	15-9-2025 To 20-9-2025	basic queries, join operations and sub-queries; Views; Specifying Indexes; Constraints and its implementation in SQL;
	22-9-2025 To 30-9-2025	Relational Algebra: Basic operations: select, project, join, union, intersection, difference and Cartesian product etc;
October	01-10-2025 To 04-10-2025	Relational Calculus: Tuple Relational and Domain Relational Calculus.
	06--10-2025 To 11-10-2025	Relational Algebra v/s Relational Calculus
	13-10-2025 To 18-10-2025	Relational Model: Functional dependency- characteristics, inference rules and types;
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Normalization: benefits and need, normal forms:
November	01-11-2025 To 08-11-2025	Based on Primary Keys - (1NF, 2NF, 3NF, BCNF), Multi-valued Dependencies,
	10-11-2025 To 15-11-2025	4NF, join dependencies, 5NF, domain key normal form.

Lesson Plan

Session: 2025 -2026   **Class: B.Sc.(Non-Med) III Semester**

Subject: **Knowledge of Basics of Programming using Python**   **Paper: B23-CSE-304**

Teacher: Ms. Ritu Rohilla

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Introduction to Python: Setting up Python environment, writing and executing Python scripts
	28-07-2025 To 31-07-2025	Variables and Data Types, Input/Output, Type Casting, Comments, Operators Overview
August	01-08-2025 To 09-08-2025	Operators in Detail: Arithmetic, Relational, Logical, Assignment, Bitwise, Identity, Membership Operators
	11-08-2025 To 16-08-2025	Control Structures: Conditional Statements (if, if-else, elif)
	18-08-2025 To 23-08-2025	Loops: for and while loops, Loop Control (break, continue, pass)
	25-08-2025 To 30-08-2025	Range and Enumerate Functions, Nested Loops, Basic Problem-Solving using Loops
September	01-9-2025 To 06-9-2025	Functions: Built-in and User-defined Functions, Function Arguments and Return Values
	08-9-2025 To 13-9-2025	Scope and Lifetime of Variables, Recursion, Lambda Functions
	15-9-2025 To 20-9-2025	Modules and Importing, Creating and Using Custom Modules
	22-9-2025 To 30-9-2025	Data Structures: Lists and Tuples, Operations and Applications
October	01-10-2025 To 04-10-2025	Sets and Dictionaries, Comprehensions (List, Set, Dictionary)
	06--10-2025 To 11-10-2025	File Handling: Reading and Writing Text Files and CSV Files
	13-10-2025 To 18-10-2025	Exception Handling: try, except, finally, raising exceptions
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Practicals : Implementing Python Programs based on all Units
November	01-11-2025 To 08-11-2025	Mini Project and Revision
	10-11-2025 To 15-11-2025	Final Practicum and Assessment

Lesson Plan

Session: 2025-2026   **Class: B.A. (Computer Science) III Semester**

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

Teacher Incharge: Dr. Aarti Singh

Months	Week	Topics
July	22-07-2025 To 26-07-2025	Operating System: Introduction, Functions and Characteristics, Historical Evolution Of Operating System And Structure of Operating System.
	28-07-2025 To 31-07-2025	Types Of Operating System: Real Time Operating System, Multi Programming Operating System,
August	01-08-2025 To 09-08-2025	Multiprocessing Operating System And Batch Operating System.
	11-08-2025 To 16-08-2025	Operating System Services, Operating System Interface, Service System Calls, System Programs.
	18-08-2025 To 23-08-2025	Process Management: Process Concepts, Operations on Processes, Process States and Process Control Block, Inter-Process Communication.
	25-08-2025 To 30-08-2025	CPU Scheduling: Scheduling Criteria, Levels of Scheduling, Scheduling Algorithms, Multiple Processor Scheduling.
September	01-9-2025 To 06-9-2025	Synchronization: Critical Section Problem, Semaphores, Classical Problem of Synchronization, Monitors. Test Of Operating System; Introduction, Functions and Characteristics.
	08-9-2025 To 13-9-2025	Deadlocks: Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection and Recovery.
	15-9-2025 To 20-9-2025	Memory Management Strategies: Memory Management of Single-User And Multi user Operating System, Partitioning, Swapping.
	22-9-2025 To 30-9-2025	Contiguous Memory Allocation, Paging and Segmentation; Virtual Memory Management: Demand Paging.
October	01-10-2025 To 04-10-2025	Implementing File System: File System Structure, Thrashing in Memory Management.
	06--10-2025 To 11-10-2025	File System Implantation. File Operations, Types of Files, Directory Implementation; Structure, Operations and File Systems.
	13-10-2025 To 18-10-2025	Test Of Deadlock Characterization, Methods for Handling Deadlocks.Allocation Methods; Advantages and Disadvantages, Real World Applications
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Free Space Management; Objectives, Techniques, Challenges and Applications.
November	01-11-2025 To 08-11-2025	Disk Scheduling Algorithms: Types Of Disk Scheduling Algorithms, Metrics and Real- World Applications.
	10-11-2025 To 15-11-2025	Disk Scheduling Algorithm- SSTF, Scan, C- Scan, Look, C- Look, SSD Management.

Lesson Plan

Session: 2025-2026   **Class: B.Sc. (Comp. Sc.) III Semester**

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

Teacher Incharge: Dr. Aarti Singh

Months	Week	Topics
July	22-07-2025 To 26-07-2025	Operating System: Introduction, Functions and Characteristics, Historical Evolution Of Operating System And Structure of Operating System.
	28-07-2025 To 31-07-2025	Types Of Operating System: Real Time Operating System, Multi Programming Operating System,
August	01-08-2025 To 09-08-2025	Multiprocessing Operating System And Batch Operating System.
	11-08-2025 To 16-08-2025	Operating System Services, Operating System Interface, Service System Calls, System Programs.
	18-08-2025 To 23-08-2025	Process Management: Process Concepts, Operations on Processes, Process States and Process Control Block, Inter-Process Communication.
	25-08-2025 To 30-08-2025	CPU Scheduling: Scheduling Criteria, Levels of Scheduling, Scheduling Algorithms, Multiple Processor Scheduling.
September	01-9-2025 To 06-9-2025	Synchronization: Critical Section Problem, Semaphores, Classical Problem of Synchronization, Monitors. Test Of Operating System; Introduction, Functions and Characteristics.
	08-9-2025 To 13-9-2025	Deadlocks: Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection and Recovery.
	15-9-2025 To 20-9-2025	Memory Management Strategies: Memory Management of Single-User And Multi user Operating System, Partitioning, Swapping.
	22-9-2025 To 30-9-2025	Contiguous Memory Allocation, Paging and Segmentation; Virtual Memory Management: Demand Paging.
October	01-10-2025 To 04-10-2025	Implementing File System: File System Structure, Thrashing in Memory Management.
	06--10-2025 To 11-10-2025	File System Implantation. File Operations, Types of Files, Directory Implementation; Structure, Operations and File Systems.
	13-10-2025 To 18-10-2025	Test Of Deadlock Characterization, Methods for Handling Deadlocks.Allocation Methods; Advantages and Disadvantages, Real World Applications
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Free Space Management; Objectives, Techniques, Challenges and Applications.
November	01-11-2025 To 08-11-2025	Disk Scheduling Algorithms: Types Of Disk Scheduling Algorithms, Metrics and Real- World Applications.
	10-11-2025 To 15-11-2025	Disk Scheduling Algorithm- SSTF, Scan, C- Scan, Look, C- Look, SSD Management.

Lesson Plan

Session-2025-2026 **Class: B.A. (Comp.Sc.) – V Semester**
Subject: Data Structures **Paper Code: B23-CSE-501**
Teacher Incharge: Dr. Aarti Singh

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Classification of Data Structures, Data Structure Operations, Applications of Data Structures.
	28-07-2025 To 31-07-2025	**Algorithm Specifications**: Performance Analysis and Measurement (Time and Space Analysis of Algorithms- Average, Best and Worst Case Analysis).
August	01-08-2025 To 09-08-2025	**Arrays**: Introduction, Linear Arrays, Representation of Linear Array in Memory, Two Dimensional and Multidimensional Arrays, Sparse Matrix and its Representation
	11-08-2025 To 16-08-2025	Operations on Array: Algorithm for Traversal, Selection, Insertion, Deletion and its implementation.
	18-08-2025 To 23-08-2025	**String Handling**: Storage of Strings, Operations on Strings viz., Length, Concatenation, Substring, Insertion, Deletion, Replacement, Pattern Matching
	25-08-2025 To 30-08-2025	**Linked List**: Introduction, Array vs. linked list, Representation of linked lists in Memory, Traversing a Linked List, Insertion, Deletion, Searching into a Linked list, Type of Linked List.
September	01-9-2025 To 06-9-2025	**Stack**: Array Representation of Stack, Linked List Representation of Stack, Algorithms for Push and Pop
	08-9-2025 To 13-9-2025	Application of Stack: Polish Notation, Postfix Evaluation Algorithms, Infix to Postfix Conversion, Infix to Prefix Conversion, Recursion. .
	15-9-2025 To 20-9-2025	**Introduction to Queues**: Simple Queue, Double Ended Queue, Circular Queue, Priority Queue
	22-9-2025 To 30-9-2025	Representation of Queues as Linked List and Array, Applications of Queue.
October	01-10-2025 To 04-10-2025	Algorithm on Insertion and Deletion in Simple Queue and Circular Queue. Priority Queues
	06--10-2025 To 11-10-2025	**Tree:** Definitions and Concepts, Representation of Binary Tree, Binary Tree Traversal (Inorder, postorder, preorder)
	13-10-2025 To 18-10-2025	Binary Search Trees – Definition, Operations viz., searching, insertions and deletion;
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Searching and Sorting Techniques, Sorting Techniques: Bubble sort, Merge sort,
November	01-11-2025 To 08-11-2025	Selection sort, Quick sort, Insertion Sort.
	10-11-2025 To 15-11-2025	Searching Techniques: Sequential Searching, Binary Searching.

Lesson Plan

Session-2025-2026   **Class: B.Sc. (Comp.Sc.) – V Semester**
Subject: Data Structures   **Paper Code: B23-CSE-501**
Teacher Incharge: Dr. Aarti Singh

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Classification of Data Structures, Data Structure Operations, Applications of Data Structures.
	28-07-2025 To 31-07-2025	**Algorithm Specifications**: Performance Analysis and Measurement (Time and Space Analysis of Algorithms- Average, Best and Worst Case Analysis).
August	01-08-2025 To 09-08-2025	**Arrays**: Introduction, Linear Arrays, Representation of Linear Array in Memory, Two Dimensional and Multidimensional Arrays, Sparse Matrix and its Representation
	11-08-2025 To 16-08-2025	Operations on Array: Algorithm for Traversal, Selection, Insertion, Deletion and its implementation.
	18-08-2025 To 23-08-2025	**String Handling**: Storage of Strings, Operations on Strings viz., Length, Concatenation, Substring, Insertion, Deletion, Replacement, Pattern Matching
	25-08-2025 To 30-08-2025	**Linked List**: Introduction, Array vs. linked list, Representation of linked lists in Memory, Traversing a Linked List, Insertion, Deletion, Searching into a Linked list, Type of Linked List.
September	01-9-2025 To 06-9-2025	**Stack**: Array Representation of Stack, Linked List Representation of Stack, Algorithms for Push and Pop
	08-9-2025 To 13-9-2025	Application of Stack: Polish Notation, Postfix Evaluation Algorithms, Infix to Postfix Conversion, Infix to Prefix Conversion, Recursion. .
	15-9-2025 To 20-9-2025	**Introduction to Queues**: Simple Queue, Double Ended Queue, Circular Queue, Priority Queue
	22-9-2025 To 30-9-2025	Representation of Queues as Linked List and Array, Applications of Queue.
October	01-10-2025 To 04-10-2025	Algorithm on Insertion and Deletion in Simple Queue and Circular Queue. Priority Queues
	06--10-2025 To 11-10-2025	**Tree:** Definitions and Concepts, Representation of Binary Tree, Binary Tree Traversal (Inorder, postorder, preorder)
	13-10-2025 To 18-10-2025	Binary Search Trees – Definition, Operations viz., searching, insertions and deletion;
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Searching and Sorting Techniques, Sorting Techniques: Bubble sort, Merge sort,
November	01-11-2025 To 08-11-2025	Selection sort, Quick sort, Insertion Sort.
	10-11-2025 To 15-11-2025	Searching Techniques: Sequential Searching, Binary Searching.

Lesson Plan

Session: 2025-2026   **Class: BCA III Semester**

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

Teacher Incharge: Ms. Heena Grover

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Object Oriented Programming And Java Fundamentals: Structure Of Java Programe
	28-07-2025 To 31-07-2025	Classes And Objects, Data Types, Typecasting, Looping Constructs
August	01-08-2025 To 09-08-2025	Interfaces: Interface basics; Defining, Implementing And Extending
	11-08-2025 To 16-08-2025	Interfaces; Implementing Multiple Inheritance Using Interfaces Packages: Basics Of Packages
	18-08-2025 To 23-08-2025	Creating And Accessing Packages, System Packages, Creating user Defined Packages
	25-08-2025 To 30-08-2025	Exception Handling Using The Main Keyboards Of Exception Handling: Try ,Catch,
September	01-9-2025 To 06-9-2025	Throws And Finally; Nested Try, File Handling Byte Stream
	08-9-2025 To 13-9-2025	Character Steam, File I/O Basics, File Operations
	15-9-2025 To 20-9-2025	Revisions
	22-9-2025 To 30-9-2025	Multiple Catch Statements, Creating User Defined Exceptions
October	01-10-2025 To 04-10-2025	Test
	06--10-2025 To 11-10-2025	AWT And Event Handling
	13-10-2025 To 18-10-2025	The AWT Class Hierarchy,Events, Event sources, Event Classes
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Event Listeners, Relationship Between Event
November	01-11-2025 To 08-11-2025	Sources And Listeners, Delegation Event Model
	10-11-2025 To 15-11-2025	Creating Gui Applications Using AWT

Lesson Plan

Session 2025-2026   **Class- BCA III semester**

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

Teacher Name- Ms. Divya Sharma

MONTH	WEEK	TOPICS
July	22-07-2025 To 26-07-2025	Introduction To Linux : Linux Distributions ,Overview Of Linux Operating System , Linux Architecture ,Features Of Linux
	28-07-2025 To 31-07-2025	Accessing Linux System , Starting And Shutting Down System
August	01-08-2025 To 09-08-2025	,Logging In And Logging Out , Comparison Of Linux With Other Operating System
	11-08-2025 To 16-08-2025	Commands In Linux –General Purpose Commands, File Oriented Commands Communication Oriented Commands, Process Oriented Commands
	18-08-2025 To 23-08-2025	Regular Expression And Filters in Linux, Simple Filters Viz. More , Wc ,Diff Sort , Uniq ,Grep ,Introducing Regular Expression
	25-08-2025 To 30-08-2025	Linux File System, Inodes and Structures ,File System & Its Component
September	01-9-2025 To 06-9-2025	Standard File System , File System Types
	08-9-2025 To 13-9-2025	Processes In Linux: Starting And Stopping Processes
	15-9-2025 To 20-9-2025	Initialization Processes, Mechanism of Process Creation
	22-9-2025 To 30-9-2025	Job Control in Linux Using At, Batch, Cron, Time
October	01-10-2025 To 04-10-2025	Shell Programming ,Vi-Editor
	06--10-2025 To 11-10-2025	Shell Variables ,I/O In Shell
	13-10-2025 To 18-10-2025	Control Structure & Loops
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Subprograms ,Creating Shell Scripts
November	01-11-2025 To 08-11-2025	Executing Shell Scripts In Linux
	10-11-2025 To 15-11-2025	File System & Its Component

Lesson Plan

Session: 2025-2026   **Class: BCA III semester**

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

Teacher Name: Ms. Neha Saini

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Basic Concept: Data, Information, Record, Files, Schema and Instance, Limitation of File-Based Approach
	28-07-2025 To 31-07-2025	Characteristics Of Database Approach, DBMS, Component of DBMS Environment
August	01-08-2025 To 09-08-2025	DBMS Functions and Component, Database Interference, Pros and Cons Of DBMS, Database Users: Data And Database Administrator, Role and Responsibilities of Database Administrator,
	11-08-2025 To 16-08-2025	Database Designers, Application Developers, Database Architecture: 1-Tier, 2-Tier and Three Level of Architecture, External, Internal, Conceptual Levels
	18-08-2025 To 23-08-2025	Schemas, Mapping and Instance, Data Dependence-Logical and Physical Data Dependence, Revision of Previous Topics
	25-08-2025 To 30-08-2025	Data Models: Hierarchical, Network and Relational Models, Entity Relationship Models: Entity, Entity Set, Entity Type
September	01-9-2025 To 06-9-2025	Attributes: Types Of Attributes, Keys, Integrity Constraints Designing Of E-R Diagram, Symbolic Notation for Designing E-R Diagram
	08-9-2025 To 13-9-2025	SQL: Meaning, Purpose and Needs Of SQL, Datatypes, SQL Components: DDL, DML, DQL
	15-9-2025 To 20-9-2025	Basic Queries, Join Operation and Sub Queries, Views, Specifying Index
	22-9-2025 To 30-9-2025	Constraints And Its Implementation In SQL, Relational Algebra: Basic Operation, Select, Project, Join
October	01-10-2025 To 04-10-2025	Relational Algebra: Basic Operation Union, Intersection, Difference, Cartesian Product, Revision of Previous Topics
	06--10-2025 To 11-10-2025	Relational Calculus: Tuple Relation and Domain Relational Calculus, Relational Algebra. Relational Calculus
	13-10-2025 To 18-10-2025	Relational Model: Functional Dependency, Characteristics, Interference Rules for Functional Dependency
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Types of Functional Dependency, Normalization: Benefits and Needs of Normalization, Normal Form on Primary Key(1NF,2NF)
November	01-11-2025 To 08-11-2025	Normal Form on Primary Key (3NF), ,4NF, Revision Of Previous Topics Normal Form on Primary Key (BCNF)
	10-11-2025 To 15-11-2025	Join Dependencies Multi-Valued Dependencies 5NF, Domain Key Normal Form

Lesson Plan

Session: 2025-2026   **Class: BCA III Semester**

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

Teacher Incharge: Ms. Shivani

Month	Week	Topics
	22-07-2025 To 26-07-2025	Introduction To Data Science: Definition, Importance, And Applications.
July	28-07-2025 To 31-07-2025	Overview Of Excel: Interface, Basic Functions
August	01-08-2025 To 09-08-2025	Features.Data Types And Formats In Excel: Text, Numbers,Dates, And Custom Formats
	11-08-2025 To 16-08-2025	Basic Data Manipulation: Sorting, Filtering, And Basic Formulas(Sum, Average, Count) Data Import and Export: Csv, Txt, And Excel Files
	18-08-2025 To 23-08-2025	Data Cleaning Techniques: Handling Missing Values, Duplicates, And Errors.
	25-08-2025 To 30-08-2025	Data Transformation: Text-To-Columns, Concatenation,
September	01-9-2025 To 06-9-2025	Data Validation Data Visualization: Creating and Customizing Charts (Bar, Line, Pie)
	08-9-2025 To 13-9-2025	Descriptive Statistics: Mean, Median, Mode, Standard Deviation, And Variance,
	15-9-2025 To 20-9-2025	Inferential Statistics: Hypothesis Testing, T-Tests, And Chi-Square Tests.
	22-9-2025 To 30-9-2025	Regression Analysis: Simple Linear Regression and Multiple Regression
October	01-10-2025 To 04-10-2025	Predictive Modeling: Introduction To Basic Predictive Models and Their Implementation In Excel
	06--10-2025 To 11-10-2025	Advanced Excel Functions: V lookup, H lookup, Index match and Pivot tables.
	13-10-2025 To 18-10-2025	Data Analysis Tool pak: Using Excel's Built-In Data Analysis Tools Such As
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Descriptive Statistics. Histograms, Correlation, And Regression
November	01-11-2025 To 08-11-2025	What-If analysis Tools: Scenario Manager, Goal Seek
	10-11-2025 To 15-11-2025	Data Tables

Lesson Plan

Session: 2025 -2026   **Class: BCA – V Semester**
Subject: Software Engineering   **Paper: B23-CAP-501**
Teacher: Ms. Ruchi

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Introduction: Program vs. Software, Definition of Software Engineering, Programming Paradigms
	28-07-2025 To 31-07-2025	Software Crisis – Problems and Causes, Phases in Software Development: Requirement Analysis, Design, Coding, Testing, Maintenance
August	01-08-2025 To 09-08-2025	Software Development Process Models: Waterfall Model, Prototype Model
	11-08-2025 To 16-08-2025	Evolutionary and Spiral Models, Role of Metrics
	18-08-2025 To 23-08-2025	Feasibility Study, Software Requirement Analysis and Specification – Introduction, Need for SRS, Characteristics of SRS
	25-08-2025 To 30-08-2025	Components of SRS, Problem Analysis, Information Gathering Tools
September	01-9-2025 To 06-9-2025	Requirement Specification, Validation and Metrics, Structured Analysis and Tools – Data Flow Diagram (DFD), Data Dictionary
	08-9-2025 To 13-9-2025	Decision Table, Decision Trees, Structured English, Entity-Relationship (ER) Diagrams
	15-9-2025 To 20-9-2025	Software Project Planning – Cost Estimation (COCOMO Model), Project Scheduling
	22-9-2025 To 30-9-2025	Staffing and Personnel Planning, Team Structure, Software Configuration Management, Quality Assurance Plans
October	01-10-2025 To 04-10-2025	Project Monitoring Plans, Risk Management
	06--10-2025 To 11-10-2025	Software Design – Design Fundamentals, Problem Partitioning and Abstraction
	13-10-2025 To 18-10-2025	Design Methodology, Cohesion and Coupling
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Software Testing Strategies – Unit Testing, Integration Testing
November	01-11-2025 To 08-11-2025	Validation Testing, System Testing, Alpha and Beta Testing
	10-11-2025 To 15-11-2025	Software Maintenance – Types of Maintenance, Management of Maintenance Process, Maintenance Characteristics

Lesson Plan

Session: 2025 -2026　　　　　　　　　　**Class: BCA – V Semester**
Subject: Back-End Development　　　　　　**Paper: B23-CAP-502**
Teacher: Ms. Shivani

Month	Week	Topics
July	22-07-2025 to 26-07-2025	Introduction to Back-End Development: Overview of Backend, Client-Server Architecture
	28-07-2025 to 31-07-2025	Introduction to Web Servers and Databases
August	01-08-2025 to 09-08-2025	Programming Languages and Tools: Introduction to Server-Side Languages (e.g., Node.js)
	11-08-2025 to 16-08-2025	Syntax and Semantics of Chosen Server-Side Language
	18-08-2025 to 23-08-2025	Version Control with Git – Basics and Workflow
	25-08-2025 to 30-08-2025	Introduction to IDEs (Integrated Development Environments), Writing and Executing Server-Side Scripts
September	01-09-2025 to 06-09-2025	Performance Optimization and Security: Caching Strategies, Query Optimization
	08-09-2025 to 13-09-2025	Database Management: Introduction to Databases and DBMS (SQL and NoSQL)
	15-09-2025 to 20-09-2025	Designing a Database Schema, CRUD Operations (Create, Read, Update, Delete)
	22-09-2025 to 30-09-2025	Connecting Applications to a Database
October	01-10-2025 to 04-10-2025	Server-Side Frameworks: Overview of Popular Frameworks (e.g., Express.js)
	06-10-2025 to 11-10-2025	Building a Simple Application Using a Framework
	13-10-2025 to 18-10-2025	API Development: RESTful API Concepts, Designing and Documenting APIs
	20-10-2025 to 25-10-2025	**Diwali Vacations**
	27-10-2025 to 31-10-2025	Authentication and Authorization Basics
November	01-11-2025 to 08-11-2025	Web Security Best Practices: SQL Injection, XSS, CSRF
	10-11-2025 to 15-11-2025	Revision and Discussion of Key Topics

Lesson Plan

Session: 2025 -2026   **Class: BCA – V Semester**

Subject: Network Infrastructure and Data Communication Technologies   **Paper: B23-CAP-503**

Teacher: Ms. Prachi

Month	Week	Topics
July	22-07-2025 to 26-07-2025	Introduction to Data Communication and Computer Networks
	28-07-2025 to 31-07-2025	Uses of Computer Networks, Types of Computer Networks and their Topologies
August	01-08-2025 to 09-08-2025	Network Hardware Components – Connectors, Transceivers, Repeaters, Hubs, NICs, Bridges, Switches, Routers, Gateways
	11-08-2025 to 16-08-2025	Network Software – Network Design Issues, Protocols, Connection-Oriented and Connectionless Services
	18-08-2025 to 23-08-2025	OSI Reference Model, TCP/IP Model
	25-08-2025 to 30-08-2025	Analog and Digital Data and Signals; Bandwidth, Capacity, and Baud Rate
September	01-09-2025 to 06-09-2025	Transmission Media – Guided and Wireless, Communication Satellites
	08-09-2025 to 13-09-2025	Switching and Multiplexing, Modems and Modulation Techniques
	15-09-2025 to 20-09-2025	Data Link Layer – Error Detection and Correction Methods
	22-09-2025 to 30-09-2025	Sliding Window Protocols – One-bit, Go-Back-N, and Selective Repeat
October	01-10-2025 to 04-10-2025	Media Access Control – ALOHA, Slotted ALOHA, CSMA, Collision-Free Protocols
	06-10-2025 to 11-10-2025	LAN Technologies – Ethernet, Switched Ethernet, Fast Ethernet, Gigabit Ethernet
	13-10-2025 to 18-10-2025	Token Ring, Introduction to Wireless LANs and Bluetooth
	20-10-2025 to 25-10-2025	**Diwali Vacations**
	27-10-2025 to 31-10-2025	Routing Algorithms – Flooding, Shortest Path, Distance Vector, Link State, Hierarchical Routing
November	01-11-2025 to 08-11-2025	Congestion Control – Traffic Shaping, Choke Packets, Load Shedding, Application Layer – DNS, E-mail, WWW Services
	10-11-2025 to 15-11-2025	Network Security – Security Attacks, Encryption, Firewalls, Digital Signatures

Lesson Plan

Session: 2025 -2026   **Class: BCA – V Semester**
Subject: Web Designing   **Paper: B23-VOC-106**
Teacher: Ms. Heena Grover

Month	Week	Topics
July	22-07-2025 to 26-07-2025	Web Programming Introduction – Architecture of a Website, Different technologies in making the website
	28-07-2025 to 31-07-2025	Introduction to HTML: History, Structure of an HTML Document, Static vs Dynamic Websites
August	01-08-2025 to 09-08-2025	HTML Tags vs Elements, HTML Attributes, Basic Formatting Tags
	11-08-2025 to 16-08-2025	Grouping Using Div and Span Tags, HTML Lists – Ordered, Unordered, Definition Lists
	18-08-2025 to 23-08-2025	Image and Image Mapping, Hyperlinks
	25-08-2025 to 30-08-2025	HTML Tables – <table>, <tr>, <td>, <th>, <caption>, <thead>, <tbody>, <tfoot>, <col>, <colgroup>,<col>
September	01-09-2025 to 06-09-2025	Colspan & Rowspan, HTML Iframes – Attributes, Using Iframe as Target
	08-09-2025 to 13-09-2025	HTML Iframe – Iframe attributes, Using Iframe as the Target; HTML-Form: Form attributes, Form elements: < input >, < textarea >. < button >, < select >, < label >, <fieldset>, <legend> etc.
	15-09-2025 to 20-09-2025	CSS: Introduction, Benefits of CSS, CSS Syntax, Types of CSS
	22-09-2025 to 30-09-2025	CSS Selectors – Element, ID, Class, Grouping, Universal, Pseudo Classes, pseudo element
October	01-10-2025 to 04-10-2025	Text Fonts: color, background-color, text-decoration, text-align, vertical-align, text-indent, text-transform, white space, letter-spacing, wordspacing, line-height; font properties: font-family, font-size, font-style, font-variant, font-weight.
	06-10-2025 to 11-10-2025	Lists: list-style-type, list-style-position, list-style-image, liststyle
	13-10-2025 to 18-10-2025	Tables: border, width & height, text-align, padding, colour
	20-10-2025 to 25-10-2025	**Diwali Vacations**
	27-10-2025 to 31-10-2025	CSS Box Model – Border, Margin, Padding, Width, Height
November	01-11-2025 to 08-11-2025	CSS Positioning Properties – Static, Relative, Absolute, Fixed
	10-11-2025 to 15-11-2025	Revision and Practical Discussion on HTML & CSS Topics

Lesson Plan

Session: 2025 -2026   **Class: M.Sc.(Software) III Semester**
Subject: Python Programming   **Paper: M24-OEC-307**
Teacher: Ms. Divya Sharma

Month	Week	Topics
July	22-07-2025 to 26-07-2025	**Introduction to Python Programming:** History and features of Python; Installing Python and
	28-07-2025 to 31-07-2025	working with IDEs; Python syntax and indentation; Variables and data types;
August	01-08-2025 to 09-08-2025	Type conversion; Input and output functions; Arithmetic, relational, logical and assignment operators;
	11-08-2025 to 16-08-2025	Conditional statements – if, if-else, if-elif-else; Looping structures – for loop, while loop; Loop control
	18-08-2025 to 23-08-2025	statements – break, continue, pass
	25-08-2025 to 30-08-2025	**Strings and Lists:** String creation and indexing; String operations and built-in methods; String slicing and formatting;
September	01-09-2025 to 06-09-2025	List creation, indexing, updating and deletion;
	08-09-2025 to 13-09-2025	List operations and methods; Nested lists; Iterating through strings and lists; List comprehensions
	15-09-2025 to 20-09-2025	**Tuples, Sets and Dictionaries:** Tuples – creation, indexing and immutability;
	22-09-2025 to 30-09-2025	Tuple operations; Set creation and operations;
October	01-10-2025 to 04-10-2025	Set methods and membership testing; Dictionary creation and access;
	06-10-2025 to 11-10-2025	Dictionary methods – update, pop, keys, values, items
	13-10-2025 to 18-10-2025	Iterating through tuples, sets and dictionaries
	20-10-2025 to 25-10-2025	**Diwali Vacations**
	27-10-2025 to 31-10-2025	**Functions:** Defining and calling functions
November	01-11-2025 to 08-11-2025	Function arguments – positional, keyword, default, variable-length;
	10-11-2025 to 15-11-2025	Return values and scope of variables; Recursive functions; Lambda functions.

Lesson Plan

Session: 2025-26   **Class: M.Sc. (Software) I Semester**

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

Teacher Name: Ms. Ramanpreet Kaur

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Mathematical Logic: Propositional Calculus - Propositions and Connectives,
	28-07-2025 To 31-07-2025	Semantics - Truth Assignment and (Truth Tables, Validity and Satisfiability, Tautology
August	01-08-2025 To 09-08-2025	Adequate Set of Connectives; Equivalence and Normal Forms; Compactness and Resolution;
	11-08-2025 To 16-08-2025	Formal Reducibility - Natural Deduction System and Axioms] System; Soundness and Completeness
	18-08-2025 To 23-08-2025	Revision
	25-08-2025 To 30-08-2025	Combinatorics: Basic Counting Functions, Recurrence Relations. Pigeon Hole Principle.
September	01-9-2025 To 06-9-2025	Structured Sets: Set, Relation homomorphism, Cosets, Ring and Field Sum And Product, Balls and Bins Problems
	08-9-2025 To 13-9-2025	Generating Functions, Recurrence Relations. Proof Techniques,
	15-9-2025 To 20-9-2025	Principle Of Mathematical Induction, Pigeonhole Principle.
	22-9-2025 To 30-9-2025	Structured Sets: Set, Relation - Algebraic System: Groups, Semi Groups, Monoid
October	01-10-2025 To 04-10-2025	Homomorphism, Cosets, Ring Field (Definition), Relation, Equivalence Relations,
	06--10-2025 To 11-10-2025	Poset, Lattices, Hasse Diagram, Boolean Algebra, Graph Theory: Introduction - Graph Terminologies - Types of Graphs - Sub Graph- Multi Graph Regular Graph
	13-10-2025 To 18-10-2025	Isomorphic Graphs Sub-Graph Euler Graph- Hamiltonian Graph –Related Problems.
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Trees –Properties- Distance and Centers Types- Rooted Tree- Tree Enumeration
November	01-11-2025 To 08-11-2025	Labeled Tree-Unlabeled Tree-Spanning Tree
	10-11-2025 To 15-11-2025	Fundamental Circuits-Cut Sets-Properties, Fundamental Circuits-Cut Sets-Connectivity, Separability-Related Problems.

Lesson Plan

Session: 2025-26   **Class: M.Sc. (Software) I Semester**

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

Name: Ms. Divya Sharma

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Computational Model: Computational Model, Computer Architecture, Parallel Processing: Types and Levels of Parallelism, Instruction Level Parallel (ILP) Processors
	28-07-2025 To 31-07-2025	Classification Of Parallel Architectures, Relationships Between Programming Languages and Parallel Architecture
August	01-08-2025 To 09-08-2025	Dependencies Between Instructions, Principle and General Structure of Pipelines
	11-08-2025 To 16-08-2025	Pipelined Processing Instructions, Performance Measures of Pipeline
	18-08-2025 To 23-08-2025	Code Scheduling For ILP-Processors: Basic Block Scheduling, Loop Scheduling and Global Scheduling
	25-08-2025 To 30-08-2025	Superscalar Processors: Emergence Of Superscalar Processors, Tasks of Superscalar Processing- Parallel Decoding
September	01-9-2025 To 06-9-2025	Superscalar Instruction Issue, Shelving, Register Renaming, Parallel Execution, Preserving Sequential Consistency of Instruction
	08-9-2025 To 13-9-2025	Execution and Exception Processing, Comparison Of VLIW & Superscalar Processors
	15-9-2025 To 20-9-2025	Branch Handling: Branch Problem, Approaches to Branch Handling- Delayed Branching
	22-9-2025 To 30-9-2025	Branch Detection & Prediction Schemes, Branch Penalties and Schemes to Reduce Them
October	01-10-2025 To 04-10-2025	Multiway Branches, MIMD Architectures: Concepts of Distributed and Shared Memory MIMD Architectures
	06--10-2025 To 11-10-2025	UMA, NUMA, CC-NUMA & COMA Models of Multiprocessors, Direct Interconnection Networks: Metrics For Performance Measures; Interconnection Topologies: Linear Array
	13-10-2025 To 18-10-2025	Ring, Chordal Rings, Star, Tree, 2D Mesh, Barrel Shifter, Hypercube, Dynamic Interconnection Networks: Single Shared Buses
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Comparison Of Bandwidths of Locked, Pended & Split Transaction Buses, Abider Logics, Crossbar
November	01-11-2025 To 08-11-2025	Multistage Networks- Omega, Cache Coherence Protocols: Cache Coherence Problem, Causes, Hardware Based Protocols- Snoopy Cache Protocol
	10-11-2025 To 15-11-2025	Directory Schemes- Full Map Directory, Limited Directory, Chained Directory

Lesson Plan

Session: 2025-26   **Class: M.Sc. (Software) I Semester**

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

Teacher Name: Ms. Rita

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Trees AVL Trees, Splay Trees, B-Trees, Red-Black Trees
	28-07-2025 To 31-07-2025	Heaps: Binomial Heaps, Fibonacci Heaps, Pairing Heaps
August	01-08-2025 To 09-08-2025	Pairing Gea heaps, Depth First Search (DFS)
	11-08-2025 To 16-08-2025	Breadth First Search (BFS)
	18-08-2025 To 23-08-2025	Strongly Connected Components (SCC)
	25-08-2025 To 30-08-2025	Memory Allocation System, Memory Pool Allocation
September	01-9-2025 To 06-9-2025	Garbage Collection Algorithms, Graph Algorithms: Shortest Path Algorithms (Dijkstra's, Bellman-Ford
	08-9-2025 To 13-9-2025	Minimum Spanning Tree (Kruskal's. Prim's), Network Flow (Ford-Fulkerson, Edmonds-Karp)
	15-9-2025 To 20-9-2025	Dynamic Programming: Matrix Chain Multiplication
	22-9-2025 To 30-9-2025	Longest Common Subsequences (LCS) Knapsack Problems
October	01-10-2025 To 04-10-2025	Travelling Salesman Problem (TSP)
	06--10-2025 To 11-10-2025	Approximations Algorithms' Introduction to NP Completeness, Approximations Techniques (Greedy, Local search, Linear Programming)
	13-10-2025 To 18-10-2025	Specific Problem (Vertex Cover, Travelling Salesman Problem, Set Cover
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Parallel Algorithm: Introduction To Parallel Computing
November	01-11-2025 To 08-11-2025	Parallel Sorting (Bitonicsort, Parallel Merge Sort)
	10-11-2025 To 15-11-2025	Parallel Graph Algorithm (Parallel BFS, Parallel DFS), Parallel Algorithm and Analysis

Lesson Plan

Session: 2025-26   **Class: M.Sc. (Software) I Semester**

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

Teacher Name: Ms. Heena Grover

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Introduction To Java: History Features, And Applications; Basics of Java Programming: Syntax, Variables, Data Types, Operators,
	28-07-2025 To 31-07-2025	Expressions, And Statements; Control Flow: Decision-Making Statements (If, Else-if, Switch), Looping Statements (For, While, Do-While),
August	01-08-2025 To 09-08-2025	Methods: Declaring Methods, Passing Parameters, Method Overloading, And Recursion;
	11-08-2025 To 16-08-2025	Arrays: Declaring, Initializing, And Manipulating Arrays, Array Operation and Algorithms
	18-08-2025 To 23-08-2025	Classes And Objects: Declaring Classes, Creating Objects, Constructor, Encapsulation: Access Modifiers (Public, Private, Protected, Default)
	25-08-2025 To 30-08-2025	Getters, and setters; Inheritance, Extending Classes, Method Overriding, Super Keyword, And Method Overloading;
September	01-9-2025 To 06-9-2025	Polymorphism: Method Overriding, Dynamic Method Dispatch, Abstract Classes; Interfaces: Defining Interfaces, Implementing Interfaces, And Using Interface Reference
	08-9-2025 To 13-9-2025	Package Creating Using Packages, Importing Classes and Packages.
	15-9-2025 To 20-9-2025	Exception Handling: Understanding Exceptions, Try-Catch Block
	22-9-2025 To 30-9-2025	Keywords And Finally Block, File Handling Reading and Writing Files Using File Input/output Stream
October	01-10-2025 To 04-10-2025	File output stream, File reader
	06--10-2025 To 11-10-2025	Filewriter, Multithreading, Creating Using Thread Lifecycle,
	13-10-2025 To 18-10-2025	Synchronization Thread Communication. Applet Programming, Applet Life Cycle, Applet Graphic Programming
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Event Handling: AWT Classes, ActionListener, Mouse listener. Mouse motion listener, Layout Managers
November	01-11-2025 To 08-11-2025	Generics: Introduction To Generis, Generic Classes. Generic Methods, Java Database Connectivity (JDBC), Connecting To Databases. Execuring SQL Queries, Handling Transaction
	10-11-2025 To 15-11-2025	Managing Resources: Gui Programming: Introduction to Swings Creating Graphical User Interface (GUI), Event Handling, Layout Management

Lesson Plan

Session: 2025 -2026   **Class: M.Sc.(Software) III Semester**

Subject: Mobile Applications Development   **Paper: M24-CSE-301**

Teacher: Ms. Ramanpreet Kaur

Month	Week	Topics
July	22-07-2025 to 26-07-2025	**Introduction:** Mobile Applications, Characteristics and Benefits, Application Models, Mobile Devices Profiles. Basics of Android, Importance and Scope, Android Versions, Features of Android.
	28-07-2025 to 31-07-2025	Android Architecture, Android Stack, Android Applications Structure, Android Emulator, Android SDK, Overview of Android Studio, Android and File Structure, Android Virtual Device Manager, DDMS, LogCat, Understanding Activities.
August	01-08-2025 to 09-08-2025	**Android User Interface:** Measurements – Device and pixel density, independent measuring units. Layouts – Linear, Relative, Grid, and Table Layouts.
	11-08-2025 to 16-08-2025	**User Interface (UI) Components:** Editable and non-editable Text Views, Buttons, Radio and Toggle Buttons, Checkboxes, Spinners, Dialog and Pickers, List View, Spinner View.
	18-08-2025 to 23-08-2025	**Event Handling:** Handling clicks or changes of various UI components. **Intents and Broadcasts:** Using intents to launch Activities, Explicit and Implicit Intents, Passing data to Intents, Getting results from Activities, Native Actions like calling or sending SMS.
	25-08-2025 to 30-08-2025	**Services:** Callbacks and Override in application, Application Signing, API Keys for Google Maps, Publishing applications to the Android Market.
September	01-09-2025 to 06-09-2025	**Fragments:** Creating Fragments, Lifecycle of Fragments, Fragment States. Adding, Removing, and Replacing Fragments with Fragment Transactions. Interfacing between Fragments and Activities. Multi-screen Activities.
	08-09-2025 to 13-09-2025	**Location and Mapping:** Location-based services, Mapping, Google Maps Activity, Working with MapView and MapActivity, Playing and Recording of Audio and Video in Applications.
	15-09-2025 to 20-09-2025	Sensors and Near Field Communication, Native libraries and headers, Building client-server applications.
	22-09-2025 to 30-09-2025	**Using Graphics:** Canvas Drawing, Shadows, and Gradients.
October	01-10-2025 to 04-10-2025	**Persisting Data to Files:** Saving to Internal and External Storage.
	06-10-2025 to 11-10-2025	**Introduction to SQLite Database:** Creating and opening a database, creating tables,
	13-10-2025 to 18-10-2025	(inserting, retrieving, updating, and deleting data)
	20-10-2025 to 25-10-2025	**Diwali Vacations**
	27-10-2025 to 31-10-2025	Registering and Using Content Providers, (insert, delete, retrieve and update
November	01-11-2025 to 08-11-2025	**Revision**
	10-11-2025 to 15-11-2025	**Final Review & Viva Preparation:** Full course discussion, Q&A, and exam preparation.

Lesson Plan

Session: 2025 -2026   **Class: M.Sc.(Software) III Semester**

Subject: Machine Learning using Python   **Paper: M24-CSE-302**

Teacher: Ms. Rita

Month	Week	Topics
July	22-07-2025 to 26-07-2025	Introduction to Python Programming; Strings – basics, immutability, string functions and methods, string slicing.
	28-07-2025 to 31-07-2025	Lists, Tuples, and Dictionaries – creation, operations, methods, list comprehension, mutability, cloning, and parameters.
August	01-08-2025 to 09-08-2025	Tuples – usage, return values; Files and Modules – text files, reading and writing files, file operations.
	11-08-2025 to 16-08-2025	Exception handling – errors, exceptions, modules, and command-line arguments.
	18-08-2025 to 23-08-2025	Introduction to Python Packages – Pandas, NumPy, Scikit-Learn, and Matplotlib.
	25-08-2025 to 30-08-2025	NumPy: Introduction, ndarray object, array creation routines, indexing and slicing, broadcasting, array manipulation.
September	01-09-2025 to 06-09-2025	Mathematical operations in NumPy – binary operators, string and statistical functions, linear algebra.
	08-09-2025 to 13-09-2025	Data visualization using Matplotlib – functions, histograms, and plots.
	15-09-2025 to 20-09-2025	Pandas: Data cleaning and analysis, loading and saving data, handling CSV files.
	22-09-2025 to 30-09-2025	Using Scikit-Learn for Machine Learning – Linear Regression, Logistic Regression, Decision Tree, Naive Bayes, KNN, SVN, k-Means Clustering, Random Forest.
October	01-10-2025 to 04-10-2025	Introduction to Machine Learning – Learning problems, designing a learning system, and key issues in ML.
	06-10-2025 to 11-10-2025	Concept Learning – General-to-Specific ordering of hypotheses, Find-S and Candidate Elimination Algorithms.
	13-10-2025 to 18-10-2025	Inductive Bias, Decision Tree Learning – Algorithm, Inductive Bias, Issues in Decision Tree Learning.
	20-10-2025 to 25-10-2025	Bayesian Learning: Bayes Theorem, Concept Learning, Bayes Optimal Classifier, Naïve Bayes Classifier, EM Algorithm.
	27-10-2025 to 31-10-2025	**Diwali Vacations**
November	01-11-2025 to 08-11-2025	Computational Learning Theory – Sample Complexity for Finite and Infinite Hypothesis Spaces, Mistake Bound Model.
	10-11-2025 to 15-11-2025	Instance-Based Learning – KNN, Locally Weighted Regression, Radial Basis Function Networks, Case-Based Learning, Revision and Discussion of Key Topics.

Lesson Plan

Month	Week	Topics
July	22-07-2025 to 26-07-2025	Introduction to Data Mining and Analytics; Overview of Data Warehousing concepts and architecture.
	28-07-2025 to 31-07-2025	Knowledge Discovery Process: Introduction, Motivation, Importance; Data Mining Functionalities and Interesting Patterns.
August	01-08-2025 to 09-08-2025	Classification of Data Mining Systems; Major Issues in Data Mining; Data Preprocessing Overview.
	11-08-2025 to 16-08-2025	Data Cleaning, Data Integration, Data Reduction, Data Transformation, Data Discretization.
	18-08-2025 to 23-08-2025	Data Visualization, Handling Outliers; Introduction to Data Mining Techniques.
	25-08-2025 to 30-08-2025	Statistical Perspective on Data Mining; Similarity Measures; Clustering Requirements and Methods.
September	01-09-2025 to 06-09-2025	Decision Tree – Induction and Pruning; Cluster Analysis; Attribute Selection Measures.
	08-09-2025 to 13-09-2025	Association Rule Mining: Concepts and Techniques; Apriori Algorithm for Frequent Itemset Mining.
	15-09-2025 to 20-09-2025	Nearest Neighbour Classification: Concepts and Performance Evaluation of Classifiers.
	22-09-2025 to 30-09-2025	Introduction to Data Analytics: Qualitative and Quantitative Data, Data Strategies, Conceptualizing Data Analysis.
October	01-10-2025 to 04-10-2025	Managing the Data Analysis Process; Exploratory Data Analysis (EDA); Exploring and Summarizing Datasets.
	06-10-2025 to 11-10-2025	Detecting and Visualizing Anomalies in Numeric Data; Relations between Variables.
	13-10-2025 to 18-10-2025	Working with External Data: Manual Data Entry, CSV Files, Merging Data from Different Sources.
	20-10-2025 to 25-10-2025	Introduction to R Programming: Features and Advantages, Working with Directories and Data Types.
	27-10-2025 to 31-10-2025	**Diwali Vacations**
November	01-11-2025 to 08-11-2025	R Programming Basics: Control Statements, Loops, Data Manipulation, Integration of Data in R.
	10-11-2025 to 15-11-2025	Advanced R Programming: Data Frames, Loading Packages, Decision Tree and Clustering Functions in R, Revision and Discussion of Key Topics.

Lesson Plan

Session: 2025 -2026   **Class: M.Sc.(Software) III Semester**

Subject: Theory of Computation   **Paper: M24-CSE-306**

Teacher: Ms. Shivani

Month	Week	Topics
July	22-07-2025 to 26-07-2025	Introduction to Theory of Computation, overview of automata theory, grammar, and languages.
	28-07-2025 to 31-07-2025	Finite Automata (FA): Introduction, types of automata, DFA and NDFA, NFA with ε-transitions.
August	01-08-2025 to 09-08-2025	Equivalence of DFA and NFA with proof, Regular Expressions and Regular Languages, Laws of Regular Expressions.
	11-08-2025 to 16-08-2025	Kleene's Theorem I & II, Properties and Limitations of Finite State Machines (FSM), FSM with Output – Moore and Mealy Machines.
	18-08-2025 to 23-08-2025	Arden's Theorem with proof, Closure Properties of Regular Sets, Pumping Lemma for Regular Languages, Minimization of Finite Automata.
	25-08-2025 to 30-08-2025	Formal Grammars: Definition, Construction of Regular & Context-Free Grammar, Derivation, Parse Trees, Ambiguity, Removal of Ambiguity.
September	01-09-2025 to 06-09-2025	Simplification of Context-Free Grammar, CNF and GNF forms.
	08-09-2025 to 13-09-2025	Closure Properties of Context-Free Languages (CFL), Pumping Lemma for CFL.
	15-09-2025 to 20-09-2025	Pushdown Automata (PDA): Introduction, Types of PDA, Designing of PDA, Conversion from PDA to CFG and vice versa.
	22-09-2025 to 30-09-2025	Linear Bounded Automata (LBA), Introduction to Turing Machines (TM), General Model of Computation.
October	01-10-2025 to 04-10-2025	TM as Language Acceptor, TM as Computing Partial Functions, Combining TM, Multi-Tape TM, Restricted and Universal TM.
	06-10-2025 to 11-10-2025	TM and Computers, Recursive and Recursively Enumerable Languages and Properties.
	13-10-2025 to 18-10-2025	Advanced Topics – General Grammars, Reductions and the Halting Problem, Post's Correspondence Problem.
	20-10-2025 to 25-10-2025	Rice's Theorem, Cook's Theorem, Decidability of Membership, Emptiness and Equivalence Problems of Languages.
	27-10-2025 to 31-10-2025	**Diwali Vacations**
November	01-11-2025 to 08-11-2025	Computable Functions: Primitive Recursive Functions, Gödel Numbering, Tractable and Intractable Problems.
	10-11-2025 to 15-11-2025	Computable Complexity, Revision and Discussion of Key Topics.

<div align="center">**Lesson Plan**</div>

Session: 2025-26   **Class: B.Sc. (MM)- V Semester**

Subject: Interactive Courseware Designing   **Paper: B23-MMT-501**

Teacher Incharge: Ms. Shivani

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Coursework – introduction need and Structure
	28-07-2025 To 31-07-2025	Components of multimedia Instructional material Dale's Cone of Learning
August	01-08-2025 To 09-08-2025	Principles, methods and types of learning
	11-08-2025 To 16-08-2025	ADDIE Model & Process, Courseware design knowledge and skills
	18-08-2025 To 23-08-2025	Selecting subjects for the interactive courseware
	25-08-2025 To 30-08-2025	Preparing synopsis for a courseware Sequencing of learning points
September	01-9-2025 To 06-9-2025	Role and responsibilities of team members
	08-9-2025 To 13-9-2025	Courseware development life cycle
	15-9-2025 To 20-9-2025	Hypermedia authoring and publishing
	22-9-2025 To 30-9-2025	Adding audio-visual contents
October	01-10-2025 To 04-10-2025	Creating self check exercises
	06--10-2025 To 11-10-2025	Evaluating the quality of Courseware
	13-10-2025 To 18-10-2025	Features of Smart Classroom Computer aided learning-process, types, pros and cons
	20-10-2025 To 25-10-2025	Diwali Vacations
	27-10-2025 To 31-11-2025	Future of computer aided learning: ICT, m-learning, flipped learning,virtual university
November	01-11-2025 To 08-11-2025	Learning Management System(LMS): Moodles, clickers
	10-11-2025 To 15-11-2025	MassiveOpen online Course(MOOCs)

Lesson Plan

Session: 2025-26   **Class: B.Sc. (MM)- V Semester**

Subject: Social Media Marketing   **Paper: B23-MMT-502**

Teacher Incharge: Ms. Ruchi

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Introduction to digital marketing
	28-07-2025 To 31-07-2025	Planning and creating a website
August	01-08-2025 To 09-08-2025	Domain registration and hosting
	11-08-2025 To 16-08-2025	Creation of pages and menu
	18-08-2025 To 23-08-2025	Blog page design, Difference between post and pages
	25-08-2025 To 30-08-2025	Introduction to SEO, On-page SEO Vs Off-page SEO
September	01-9-2025 To 06-9-2025	Use of keywords, Keywords research and planning
	08-9-2025 To 13-9-2025	Site map, Social bookmarking
	15-9-2025 To 20-9-2025	Social Media Optimization,Social media marketing and tools
	22-9-2025 To 30-9-2025	Use of different social media platforms, Blogging
October	01-10-2025 To 04-10-2025	Video creation and sharing
	06--10-2025 To 11-10-2025	Content creation, Web Analytics
	13-10-2025 To 18-10-2025	Google AdSense, Google Ad words
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	E-mail marketing
November	01-11-2025 To 08-11-2025	Facebook marketing X marketing
	10-11-2025 To 15-11-2025	Youtube marketing

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Lesson Plan

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Session: 2025-26   **Class: B.Sc. (MM)- V Semester**

Subject: Applications of Multimedia   **Paper: B23-MMT-503**

Teacher Incharge: Ms. Ritu Rohilla

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Multimedia based presentations
	28-07-2025 To 31-07-2025	Concept of interactive learning material
August	01-08-2025 To 09-08-2025	Multimedia networks: retail and banking business
	11-08-2025 To 16-08-2025	Application in interactive television Multimedia kiosks
	18-08-2025 To 23-08-2025	Multimedia use in training and education
	25-08-2025 To 30-08-2025	Multimedia in distance learning Multimedia for marketing and advertising
September	01-9-2025 To 06-9-2025	Multimedia use in museum and galleries
	08-9-2025 To 13-9-2025	Concept generation of multimedia project
	15-9-2025 To 20-9-2025	Process and stages of multimedia production
	22-9-2025 To 30-9-2025	Multimedia production team member
October	01-10-2025 To 04-10-2025	Implementation and distribution of multimedia products
	06--10-2025 To 11-10-2025	Multimedia messaging service
	13-10-2025 To 18-10-2025	Test
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Gaming consoles and LAN gaming
November	01-11-2025 To 08-11-2025	Multimedia in medical science education
	10-11-2025 To 15-11-2025	Multimedia in cinema production

Lesson Plan

Session: 2025 -2026 **Class: B.Sc. (MM)- V Semester**
Subject: Web Designing **Paper: B23-VOC-106**
Teacher: Ms. Heena Grover

Month	Week	Topics
July	22-07-2025 to 26-07-2025	Web Programming Introduction – Architecture of a Website, Different technologies in making the website
	28-07-2025 to 31-07-2025	Introduction to HTML: History, Structure of an HTML Document, Static vs Dynamic Websites
August	01-08-2025 to 09-08-2025	HTML Tags vs Elements, HTML Attributes, Basic Formatting Tags
	11-08-2025 to 16-08-2025	Grouping Using Div and Span Tags, HTML Lists – Ordered, Unordered, Definition Lists
	18-08-2025 to 23-08-2025	Image and Image Mapping, Hyperlinks
	25-08-2025 to 30-08-2025	HTML Tables – <table>, <tr>, <td>, <th>, <caption>, <thead>, <tbody>, <tfoot>, <col>, <colgroup>,<col>
September	01-09-2025 to 06-09-2025	Colspan & Rowspan, HTML Iframes – Attributes, Using Iframe as Target
	08-09-2025 to 13-09-2025	HTML Iframe – Iframe attributes, Using Iframe as the Target; HTML-Form: Form attributes, Form elements: < input >, < textarea >. < button >, < select >, < label >, <fieldset>, <legend> etc.
	15-09-2025 to 20-09-2025	CSS: Introduction, Benefits of CSS, CSS Syntax, Types of CSS
	22-09-2025 to 30-09-2025	CSS Selectors – Element, ID, Class, Grouping, Universal, Pseudo Classes, pseudo element
October	01-10-2025 to 04-10-2025	Text Fonts: color, background-color, text-decoration, text-align, vertical-align, text-indent, text-transform, white space, letter-spacing, wordspacing, line-height; font properties: font-family, font-size, font-style, font-variant, font-weight.
	06-10-2025 to 11-10-2025	Lists: list-style-type, list-style-position, list-style-image, liststyle
	13-10-2025 to 18-10-2025	Tables: border, width & height, text-align, padding, colour
	20-10-2025 to 25-10-2025	**Diwali Vacations**
	27-10-2025 to 31-10-2025	CSS Box Model – Border, Margin, Padding, Width, Height
November	01-11-2025 to 08-11-2025	CSS Positioning Properties – Static, Relative, Absolute, Fixed
	10-11-2025 to 15-11-2025	Revision and Practical Discussion on HTML & CSS Topics

<div align="center">**Lesson Plan**</div>

Session: 2025-26   **Class: B.Sc. (MM)- III Semester**

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

 Teacher Incharge: Ms. Shivani

Month	Week	Topics
July	22-07-2025 To 26-07-2025	Writing: Origin, Role and Scope Language,
	28-07-2025 To 31-07-2025	Dialects And Script Analytical Writing & Descriptive Writing Self-Expressions
August	01-08-2025 To 09-08-2025	Poetry, SHER-O-SHAYARI , Essentials Of Good Writing
	11-08-2025 To 16-08-2025	Writing For Formal Communication Creating User Interface
	18-08-2025 To 23-08-2025	Writing For Radio and Television Voice-Overs
	25-08-2025 To 30-08-2025	Writing News and Commercials , Writing For Computer Aided Courseware
September	01-9-2025 To 06-9-2025	Writing For Dynamic Website
	08-9-2025 To 13-9-2025	Features Of Writing for Web
	15-9-2025 To 20-9-2025	Using Colors, Images, Audio and Hyperlinks
	22-9-2025 To 30-9-2025	Researching Online Resources
October	01-10-2025 To 04-10-2025	Issues Of Copyright
	06--10-2025 To 11-10-2025	Writing Fiction and Non-Fiction
	13-10-2025 To 18-10-2025	Types of Screenplays- Proposal Script,
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Shooting Script ,Postproduction Script , Layout of a Story: Theme
November	01-11-2025 To 08-11-2025	Characters, Situation, Background
	10-11-2025 To 15-11-2025	Linking And Developing a Screenplay

Lesson Plan

Session: 2025-26   **Class: B.Sc. (MM)- III Semester**

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

Teacher Incharge: Ms. Prachi

Month	Week	Topic
July	22-07-2025 To 26-07-2025	Advertising: Concept, Nature, Definitions, Basic Theories and Applications of Advertising.
	28-07-2025 To 31-07-2025	Advertising Objectives, Functions and Significance Importance Of Research in Advertising and Types of Research in Advertising.
August	01-08-2025 To 09-08-2025	Types And Classification of Advertising, Specialized Advertising, Indian Languages, Challenges in Advertising
	11-08-2025 To 16-08-2025	Approaches to Overcome Challenges, Advertising Design: Idea Generation; Techniques for Idea Generation, Challenges In Idea Generation, Design Principles and Strategy.
	18-08-2025 To 23-08-2025	Client Study and Product Goal Setting; Client Study Methods, Benefits and Challenges of Product Goal Setting.
	25-08-2025 To 30-08-2025	Planning Layout Design and Typefaces, Creating Effective Punch Lines; Characteristics of Effective Punchlines, Types and Techniques for Crafting Punchlines.
September	01-9-2025 To 06-9-2025	Test of Advertising: Definitions, Nature, Basic Theories and Applications. Advertising Design: Headings, Illustrations.
	08-9-2025 To 13-9-2025	Organization Of Visual Artworks in Advertising Design, Design Checklists and Testing; Testing Illustration Design, Illustration Design Trends.
	15-9-2025 To 20-9-2025	Role And Responsibilities Of Graphic Artists, EMailers In Advertising Design, Emailers Design ; Benefits And Tools, Seo In Advertising Design, Seo Benefits, Techniques And Tools.
	22-9-2025 To 30-9-2025	Mobile Marketing, Advertising Agencies: Structure and Functioning, Monetization and Revenue Generation.
October	01-10-2025 To 04-10-2025	Ethical Issues in Advertising, Campaign Planning: Defining Campaign Planning, Benefits of Campaign Planning.
	06--10-2025 To 11-10-2025	Test Of Idea Generations and Principles in Advertising Design, Challenges In Campaign Planning, The Planning Cycle in Advertising.
	13-10-2025 To 18-10-2025	Brand Vs Social Budget Setting; Budget Allocation Strategies, Typical Budget Allocation, Strategy Planning; Strategy Planning Process, Levels and Types.
	20-10-2025 To 25-10-2025	Diwali Vacations
	27-10-2025 To 31-11-2025	Benefits And Challenges of Strategy Planning, Brand, Management; Objectives. Tools And Functions, Benefits and Challenges of Brand Management
November	01-11-2025 To 08-11-2025	Social Criticism of Advertising; Critiques, Theoretical Perspectives.
	10-11-2025 To 15-11-2025	Laws In Advertising; Types of Laws, State Laws and International Laws, Negative Consequences and Regulatory Responses.

Session:2025-26   **Class: B.Sc. (MM) III Semester**

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

Teacher Incharge: Ms. Ruchi

Month	Week	Topic
July	22-07-2025 To 26-07-2025	The Basic Dreamweaver Environment, Creating A Site Profile, The Importance of a Site Profile
	28-07-2025 To 31-07-2025	Organizing The Files & Folders, Folder and File Naming Rules
August	01-08-2025 To 09-08-2025	Creating Folders and Webpage Files, Opening A File for Editing, Titling Pages, Creating Divisions
	11-08-2025 To 16-08-2025	Adding Headings, Paragraph Vs. Line Breaks, Tags: Logical Vs. Physical
	18-08-2025 To 23-08-2025	Lists, Linking to Other Websites, Linking to The User Files, Inserting Images on Web Pages
	25-08-2025 To 30-08-2025	Changing Images into Links, Adding an Email Link. CSS Design, Working Of Style Sheet, Starting A Style Sheet, Font
September	01-9-2025 To 06-9-2025	Margins, Link, Colors, Stylish Headlines, Paragraphs
	08-9-2025 To 13-9-2025	Types Of Images, Organizing Images, Inserting and Formatting Tables.
	15-9-2025 To 20-9-2025	Form Elements, Head Elements, Page Templates
	22-9-2025 To 30-9-2025	Form Objects, Accessible Forms
October	01-10-2025 To 04-10-2025	Flash Elements
	06--10-2025 To 11-10-2025	Multimedia Contents
	13-10-2025 To 18-10-2025	Browser, Compatibility Testing,
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Uploading The Website on Web,
November	01-11-2025 To 08-11-2025	Testing Website Online, Uploading Changes
	10-11-2025 To 15-11-2025	Maintaining Website

<p align="center">**Lesson Plan**</p>

Session:2025-26   **Class: B.Sc. (MM) III Semester**

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

Teacher Incharge: Ms. Neha Saini

Month	Week	Topic
July	22-07-2025 To 26-07-2025	Design: Function And Process User Interface: Title Bar, Menu Bar, Color Palette, And Toolbox
	28-07-2025 To 31-07-2025	Page Counter Bar: Add Page, Remove Page And master Pages
August	01-08-2025 To 09-08-2025	Create And Edit Geometric and Organic Shapes: Bezier, Linear, Angular, Smooth And Close Path. View Modes: Normal, Wireframe, Draft, Enhanced And pixels
	11-08-2025 To 16-08-2025	Selection And Distributing: Skewing, Blending, Curve Lines, Straight Lines, Rotating An object, Group And Ungroup, Break Apart And colouring. Shape Tools - Weld
	18-08-2025 To 23-08-2025	Trim, Intersect, Simplify, And Front minus Back, Back Minus Front Font and Different Types of Font Family's: Application and Characteristics
	25-08-2025 To 30-08-2025	Text Tool: Entering Artistic Text, Entering Paragraph text
September	01-9-2025 To 06-9-2025	Converting Text Formatting Text, Font Size Characteristics Image Tool: Import, Trace and Edit Then Export
	08-9-2025 To 13-9-2025	Color: Color Scheme, Color Theory, Gradient Tool, Effects - Lens, Power Clip, Perspective, Rollover, Convert to Bitmap
	15-9-2025 To 20-9-2025	Page Setup: Size Setup And edit Business Card: Size, Elements And functions
	22-9-2025 To 30-9-2025	Poster: Size, Element, Characteristics And functions
October	01-10-2025 To 04-10-2025	Logo: Types, Process And characteristics
	06--10-2025 To 11-10-2025	Editing Tools: Attach, Detach Bevel, Chamfer, Extrude
	13-10-2025 To 18-10-2025	Bridge, Insert Vertex, Weld, Target Weld, Connect
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	Adobe In design: Interface, Menu And toolbar
November	01-11-2025 To 08-11-2025	Master Page: Function And Characteristics Managing and Transforming Objects Text Formatting: Heading and Body Text
	10-11-2025 To 15-11-2025	Column And Layout: Functions Graphics, Styles Sheet and Pre-Flight, Printing Pdf

Lesson Plan

Session: 2025-26   **Class: B.Sc.(C. Sc) III Sem & B.Sc. (N.M.) III Sem.**

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

Teacher Incharge: Ms. Ritu Rohilla

Month	Week	Topic
July	22-07-2025 To 26-07-2025	Database Management System – Introduction and Purpose
	28-07-2025 To 31-07-2025	Database Architectures: Centralised, Client-Server, Parallel, Distributed,
August	01-08-2025 To 09-08-2025	Web based system: Web architecture (2 tier, 3 tier, Ntier Architecture), Database Storage Structures: Introduction
	11-08-2025 To 16-08-2025	Hashing, Data Dictionary, Data Models: Introduction to various data models,
	18-08-2025 To 23-08-2025	Cardinality Ratio & Relationships, Representation of entities, attributes, relationship attributes, relationship set
	25-08-2025 To 30-08-2025	Generalization, aggregation, Structure of relational Database and different types of keys
September	01-9-2025 To 06-9-2025	Codd's rules and Relational data model
	08-9-2025 To 13-9-2025	Relational Database design: Basic System Development Life Cycle
	15-9-2025 To 20-9-2025	Database Design – ER to Relational
	22-9-2025 To 30-9-2025	Functional dependencies, Normalization, Normal forms based on primary keys (1NF, 2NF,3NF)
October	01-10-2025 To 04-10-2025	SQL queries: SQL data definition
	06--10-2025 To 11-10-2025	data types, specifying constraints,
	13-10-2025 To 18-10-2025	Queries for retrieval
	20-10-2025 To 25-10-2025	**Diwali Vacations**
	27-10-2025 To 31-11-2025	insertion, deletion,
November	01-11-2025 To 08-11-2025	Updation, introduction to views
	10-11-2025 To 15-11-2025	Revision