

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Dr Sakshi Aneja
Class – BCA 1st Sem
Subject – Foundation of Computer Science
Paper – (B23-CAP-102)

July, 2025 4th Week 22 July – 26 July	Computer Fundamentals: Evolution of Computers through generations, Characteristics of Computers, Strengths and Limitations of Computers
27 July, 2025	Sunday
5th Week 28 July – 30 July	Classification of Computers, Functional Components of a Computer System, Applications of Computers in Various Fields
31 July	Shaheed Udham Singh Martyrdom Day

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Name of the Teacher – Dr Sakshi Aneja

Class – BCA 1st Sem

Subject – Foundation of Computer Science

Paper – (B23-CAP-102)

August, 2025 1 st Week 1 Aug – 2 Aug	Types of Software: System software, Application software, Utility Software, Shareware, Freeware, Firmware, Free Software
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Memory Systems: Concept of bit, byte, word, nibble, storage locations, and addresses, measuring units of storage capacity, access time, the concept of the memory hierarchy
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Primary Memory - RAM, ROM, PROM, EPROM. Secondary Memory - Types of storage devices, Magnetic Tape, Hard Disk, Optical Disk, Flash Memory.
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	I/O Devices: I/O Ports of a Desktop Computer, Device Controller, Device Driver. Input Devices: classification and use, keyboard, pointing devices - mouse, touchpad and trackball, joystick, magnetic stripes, scanner, digital camera, and microphone
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Output Devices: speaker, monitor, printers: classification, laser, inkjet, dot-matrix. Plotter. Introduction to Operating System: Definition, Functions, Features of Operating System, Icon, Folder, File, Start Button, Task Bar,
31 Aug, 2025	Sunday

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Class – BCA 1st Sem

Subject – Foundation of Computer Science

Paper – (B23-CAP-102)

September, 2025 1 st Week 1 Sept – 6 Sept	Status Buttons, Folders, Shortcuts, Recycle Bin, Desktop, My Computer, My Documents, Windows Explorer, Control Panel.
7 Sept, 2025	Sunday
2 nd Week 8 Sept – 13 Sept	The Internet: Introduction to networks and Internet, history, Internet, Intranet & Extranet, Working of Internet, Modes of Connecting to Internet.
14 Sept, 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Electronic Mail: Introduction, advantages and disadvantages, User IDs, Passwords, e-mail addresses
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	message components, message composition, mailer features. Browsers and search engines
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Identify the various computer hardware Understanding the working of computer Understanding various types of software

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Subject – Foundation of Computer Science
Paper – (B23-CAP-102)

October, 2025 1 st Week 1 Oct – 4 Oct	Threats: Physical & non-physical threats, Viruses, worms, Trojans, Spyware, Keyloggers, Rootkits, Adware, Cookies, Phishing, Hacking, Cracking.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Using Internet for various tasks Creating and using e-mail.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Computer Security Fundamentals: Confidentiality, Integrity, Authentication, Non-Repudiation,
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Security Mechanisms, Security Awareness, Security Policy, anti-virus software & Firewalls, backup & recovery.

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Name of the Teacher – Dr Sakshi Aneja

Class – BCA 1st Sem

Subject – Foundation of Computer Science

Paper – (B23-CAP-102)

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	Previous Year paper Discussed
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Revision of Syllabus
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
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**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Dr Sakshi Aneja

Class – BCA 1st Sem.

Subject – Basic IT Tools

Paper – B23-SEC-103

July, 2025 4th Week 22 July – 26 July	Introduction to Computer: Computer and Latest IT gadgets, Evolution of Computers & its applications
27 July, 2025	Sunday
5th Week 28 July – 30 July	Basics of Hardware and Software, Application Software, Systems Software, Utility Software.
31 July	Shaheed Udham Singh Martyrdom Day

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Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Dr Sakshi Aneja

Class – BCA 1st Sem.

Subject – Basic IT Tools

Paper – B23-SEC-103

August, 2025 1 st Week 1 Aug – 2 Aug	Central Processing Unit, Input devices, Output devices, Computer Memory & storage, Mobile Apps
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Introduction to Operating System, Functions of the Operating system, Operating Systems for Desktop and Laptop
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application, Operating System Simple Setting,
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Changing System Date and Time, Changing Display Properties, To Add or Remove Program and Features, Adding, Removing & Sharing Printers, File and Folder Management.
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN),
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

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Name of the Teacher –Dr Sakshi Aneja

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Subject – Basic IT Tools

Paper – B23-SEC-103

September, 2025 1 st Week 1 Sept – 6 Sept	Network Topology, Internet, Applications of Internet, Website Address and URL, Popular
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.), Popular Search Engines, Searching on the Internet.
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox,
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Creating and Sending a new E-mail, replying to an E-mail message, forwarding an E-mail message, searching emails, Attaching files with email, Email
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Signature. Social Networking: Facebook, Twitter, LinkedIn, Instagram, Instant Messaging (WhatsApp, Facebook Messenger, Telegram),

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Class – BCA 1st Sem.

Subject – Basic IT Tools

Paper – B23-SEC-103

October, 2025 1 st Week 1 Oct – 4 Oct	Introduction to Blogs, Digital Locker.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Identify the various parts of computer Using computer/mobile software and hardware
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Use of operating system for various tasks such as file creation, directory creation, shortcut creation, using control panel, etc.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Using Internet & various browsers. Identify the various hardware/software required for Internet

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Class – BCA 1st Sem.

Subject – Basic IT Tools

Paper – B23-SEC-103

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	Syllabus Revision Problems taken from students
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Previous Years Question Papers Discussed
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Harbinder Kaur

Class – BCA 3rd Sem.

Subject – Computer Science

Paper – Java OOP Foundations (B23-CAP-301)

August, 2025 1 st Week 1 Aug – 2 Aug	Object Oriented Programming and its features.
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Java Fundamentals and features, difference between C with JAVA and C++ with JAVA. Java and WWW, Java and Internet, API Java, Classes and Objects, Data types, Type Casting concept in Java
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Classes and Objects, Data types, Type Casting, Looping Constructs., Program to use various data types available in java with differentiate with Other Object-Oriented Languages like C++.
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Conditional Statements in Java. Program to implement various if statements like if, if-else, Nested if, if-elseif ladder, Programs to implements Switch statement
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Program to implement break and continue with Label and without use of Label Differentiate break and continue with C or C++, Looping Constructs Differentiate entry controlled loop and exit controlled loop Various Program to implement while , do while and for loop
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

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Name of the Teacher – Harbinder Kaur

Class – BCA 3rd Sem.

Subject – Computer Science

Paper – Java OOP Foundations (B23-CAP-301)

September, 2025 1 st Week 1 Sept – 6 Sept	Constructor and its types , Concept of method overloading and method overriding concept, Program related to the concept of Static Members with nesting of members
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Inheritance and its types, Program of single inheritance, multilevel and hybrid inheritance. Finalizer method, various visibility control, Abstract Method and classes with suitable Example. Interfaces: Interface basics; Defining, implementing and extending interfaces; Implementing multiple inheritance using interfaces
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Packages: Basics of packages, Creating and accessing packages, System packages, Creating user defined packages Discuss various programs regarding user define package,
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Exception handling using the main keywords of exception handling: try, catch, throw, throws and finally; Nested try, multiple catch statements, creating user defined exceptions. Discuss various concept of Checked and Unchecked Exception
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	File Handling Byte Stream, File Handling Character Stream, File I/O Basics, File Operations

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Name of the Teacher – Harbinder Kaur

Class – BCA 3rd Sem.

Subject – Computer Science

Paper – Java OOP Foundations (B23-CAP-301)

October, 2025 1 st Week 1 Oct – 4 Oct	AWT and Event Handling: The AWT class hierarchy, Events, Event sources, Event classes
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Event Listeners, Relationship between Event sources and Listeners, Delegation event model. Creating GUI applications using AWT. Discuss various program to apply Label, Button classes with suitable Program.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Discuss Applet code to add two integers in textbox and their sum should appear in third textbox. Discuss AWT program in Java to find the sum, Multiplication and average of three numbers entered in three Text fields by clicking the corresponding Labeled Button. The result should be appearing in fourth text field.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Discuss Applet code to show all the activities of Mouse using Mouselistener and MouseMotionlistener

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Class – BCA 3rd Sem.

Subject – Computer Science

Paper – Java OOP Foundations (B23-CAP-301)

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Implementing Calculator in an Applet and use appropriate Layout Manager in it.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Discuss Various previous year Question papers of Java. And problems of Students
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

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Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Harbinder Kaur

Class – BCA 5th Sem.

Subject – Computer Science

Paper – Network Infrastructure and Data Communication Technologies (B23-CAP-503)

August, 2025 1 st Week 1 Aug – 2 Aug	Introduction to Data Communication and Computer Networks; Uses of Computer Networks;
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Types of Computer Networks and their Topologies; Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways;
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Network Software: Network Design issues and Protocols; Connection-Oriented and Connectionless Services; OSI Reference Model; TCP/IP Model
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Experiment Study of different types of Network cables and Practically implement the cross-wired cable and straight-through cable using a clamping tool. Study of Network Devices in Detail.
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Network Software: Network Design issues and Protocols; Connection-Oriented and Connectionless Services; OSI Reference Model; TCP/IP Model
31 Aug, 2025	Sunday

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**Lesson Plan for the Odd Semester
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Name of the Teacher – Harbinder Kaur

Class – BCA 5th Sem.

Subject – Computer Science

Paper – Network Infrastructure and Data Communication Technologies (B23-CAP-503)

September, 2025 1st Week 1 Sept – 6 Sept	Analog and Digital Communications Concepts: Analog and Digital data and signals; Bandwidth and Data Rate, Capacity, Baud Rate; Guided and Wireless
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Study of network IP. Transmission Media; Communication Satellites; Switching and Multiplexing; Modems and modulation techniques
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	Connect the computers to the Local Area Network. Performing an Initial Switch Configuration Performing an Initial Router Configuration
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Data Link Layer Design issues; Error Detection and Correction methods;
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Sliding Window Protocols: One-bit, Go Back N

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Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Harbinder Kaur

Class – BCA 5th Sem.

Subject – Computer Science

Paper – Network Infrastructure and Data Communication Technologies (B23-CAP-503)

October, 2025 1 st Week 1 Oct – 4 Oct	Selective Repeat; Media Access Control: ALOHA, Slotted ALOHA, CSMA, Collision free protocols;
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Introduction to LAN technologies: Ethernet, Switched Ethernet, Fast Ethernet, Gigabit Ethernet; Token Ring; Introduction to Wireless LANs and Bluetooth;
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Routing Algorithms: Flooding, Shortest Path Routing, Distance Vector Routing;
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Link State Routing, Hierarchical Routing; Congestion Control; Traffic shaping; Choke packets; Load shedding;

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Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Harbinder Kaur

Class – BCA 5th Sem.

Subject – Computer Science

Paper – Network Infrastructure and Data Communication Technologies (B23-CAP-503)

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	Application Layer: Introduction to DNS, E-Mail, and WWW services; Network Security Issues: Security attacks;
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Encryption methods; Firewalls; Digital Signatures; Problem taken from students
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher– Ms.Neha Sharma

Class – B.Sc+B.A. 3rd Semester

Subject– Data Structures

Paper– B23-CSE-501

August,2025 1 st Week 1Aug – 2 Aug	Unit-I Data Structure Definition, Data Type vs. Data Structure
3 Aug, 2025	Sunday
2 nd Week 4Aug– 8Aug	Classification of Data Structures, Data Structure Operations, Applications of Data Structures. Algorithm Specifications: Performance Analysis
9Aug, 2025 10Aug, 2025	RakshaBandhan Sunday
3 rd Week 11Aug-14Aug	Measurement (Time and Space Analysis of Algorithms- Average, Best and Worst Case Analysis). Arrays: Introduction, Linear Arrays,
15 Aug, 2025 16 Aug, 2025 17Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18Aug -23Aug	Representation of Linear Array in Memory, Two Dimensional and Multidimensional Arrays, Sparse Matrix and its Representation,
24Aug,2025	Sunday
5 th Week 25Aug -30Aug	Operations on Array: Algorithm for Traversal, Selection, Insertion, Deletion and its implementation. Searching Techniques: Sequential Searching, Binary Searching.
31Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher– Ms.Neha Sharma

Class – B.Sc+B.A. 3rd Semester

Subject– Data Structures

Paper– B23-CSE-501

September,2025 1 st Week 1Sept – 6 Sept	Unit-II String Handling: Storage of Strings, Operations on Strings viz., Length, Concatenation, Substring, Insertion, Deletion, Replacement,
7 Sept , 2025	Sunday
2 nd Week 8 Sept– 13Sept	Pattern Matching Linked List: Introduction, Array vs. linked list, Representation of linked lists in Memory
14 Sept , 2025	Sunday
3 rd Week 15Sept–20 Sept	Traversing a Linked List, Insertion, Deletion, Searching into a Linked list,
21Sept,2025 22Sept,2025 23Sept,2025	Sunday Maharaja AgrasenJayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24Sept–27 Sept	Type of Linked List. Unit-III Stack: Array Representation of Stack, Linked List Representation of Stack, Algorithms for Push and Pop
28Sept,2025	Sunday
5 th Week 29 Sept – 30 Sept,2025	Application of Stack: Polish Notation, Postfix Evaluation Algorithms,

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher– Ms.Neha Sharma

Class – B.Sc+B.A. 3rd Semester

Subject– Data Structures

Paper– B23-CSE-501

October,2025 1 st Week 1Oct –4 Oct	Infix to Postfix Conversion, Infix to Prefix Conversion, Recursion. Introduction to Queues: Simple Queue, Double Ended Queue,
2Oct, 2025 5Oct,2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct-11Oct	Circular Queue, Priority Queue, Representation of Queues as Linked List and Array, Applications of Queue. Algorithm on Insertion
7Oct,2025 12Oct,2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct-18 Oct	Deletion in Simple Queue and Circular Queue. Priority Queues.
19Oct – 26 Oct	Vacations (Diwali)
5 th Week 27Oct- 31 Oct	Unit-IV Tree: Definitions and Concepts, Representation of Binary Tree, Binary Tree Traversal (Inorder, postorder, preorder)

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Name of the Teacher– Ms.Neha Sharma

Class – B.Sc+B.A. 3rd Semester

Subject– Data Structures

Paper– B23-CSE-501

November,2025 1 st Week 1Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov-8Nov	SessionalExams
5 Nov,2025 9 Nov,2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov-15 Nov	Binary Search Trees – Definition, Operations viz., searching, insertions and deletion;
16Nov,2025	Sunday
4 th Week 17Nov-22 Nov	Searching and Sorting Techniques, Sorting Techniques: Bubble sort, Merge sort, Selection sort, Quick sort, Insertion Sort.
23Nov,2025	Sunday
5 th Week 24November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher– Ms.Neha Sharma

Class – BCA 3rd Semester

Subject– Database Technologies

Paper– B23-CAP-303

August,2025 1 st Week 1Aug – 2 Aug	Unit-I Basic Concepts – Data, Information, Records, Files,
3 Aug, 2025	Sunday
2 nd Week 4Aug– 8Aug	Schema and Instance etc. Limitations of File-Based Approach, Characteristics of Database Approach, Database Management System (DBMS), Components of DBMS Environment, DBMS Functions and Components, Database Interfaces, Advantages and Disadvantages of DBMS.
9Aug, 2025 10Aug, 2025	RakshaBandhan Sunday
3 rd Week 11Aug-14Aug	Database Users: Data and Database Administrator, Role and Responsibilities of Database Administrator, Database Designers, Application Developers etc.
15 Aug, 2025 16 Aug, 2025 17Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18Aug -23Aug	Database System Architecture – 1-Tier, 2-Tier & Three Levels of Architecture,
24Aug,2025	Sunday
5 th Week 25Aug -30Aug	External, Conceptual, and Internal Levels, Schemas, Mappings and Instances, Data Independence – Logical and Physical Data Independence
31Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher– Ms.Neha Sharma

Class – BCA 3rd Semester

Subject– Database Technologies

Paper– B23-CAP-303

September,2025 1 st Week 1Sept – 6 Sept	Unit-II Data Models: Hierarchical, Network, and Relational Data Models
7 Sept , 2025	Sunday
2 nd Week 8 Sept– 13Sept	.Entity-Relationship Model: Entity, Entity Sets, Entity Type, Attributes: Type of Attributes, Keys,
14 Sept , 2025	Sunday
3 rd Week 15Sept–20 Sept	Integrity Constraints, Designing of ER Diagram, Symbolic Notations for Designing ER Diagram
21Sept,2025 22Sept,2025 23Sept,2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24Sept–27 Sept	Unit-III SQL: Meaning, Purpose, and Need of SQL, Data Types, SQL Components: DDL, DML, DCL and DQL,
28Sept,2025	Sunday
5 th Week 29 Sept – 30 Sept,2025	Basic Queries, Join Operations and Sub-queries. Constraints and its Implementation in SQL.

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher– Ms.Neha Sharma

Class – BCA 3rd Semester

Subject– Database Technologies

Paper– B23-CAP-303

October,2025 1 st Week 1Oct –4 Oct	Relational Algebra: Basic Operations: Select, Project, Join, Union, Intersection, Difference, and Cartesian Product, etc
2Oct, 2025 5Oct,2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct-11Oct	. Relational Calculus: Tuple Relational and Domain Relational Calculus.
7Oct,2025 12Oct,2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct-18 Oct	Unit-IV Relational Model: Functional Dependency, Characteristics,
19Oct – 26 Oct	Vacations (Diwali)
5 th Week 27Oct- 31 Oct	Inference Rules for Functional Dependency, Types of Functional Dependency

KUMARI VIDYAVATI ANAND D.A.V.COLLEGE FOR WOMEN, KARNAL

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Class – BCA 3rd Semester

Subject– Database Technologies

Paper– B23-CAP-303

November,2025 1 st Week 1Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov-8Nov	SessionalExams
5 Nov,2025 9 Nov,2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov-15 Nov	Normalization: Benefits and Need of Normalization, Normal Forms Based on Primary Keys- (1NF, 2NF)
16Nov,2025	Sunday
4 th Week 17Nov-22 Nov	Normal Forms Based on Primary Keys- (3NF, BCNF), Multi-valued Dependencies, 4 NF, Join dependencies, 5 NF,
23Nov,2025	Sunday
5 th Week 24November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – BCA 1st Sem.

Subject – Problem Solving Through C

Paper – (B23-CAP-101)

August, 2025 1 st Week 1 Aug – 2 Aug	Overview of C: History, Importance, Structure of C Program, Character Set, Constants and Variables, Identifiers and Keywords, Data Types,
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Assignment Statement, Symbolic Constant.
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Input/output: Formatted I/O Function-, Input Functions viz. scanf(), getch(), getche(), getchar(), gets()
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	output functions viz. printf(), putchar(), puts().
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Operators & Expression: Arithmetic, Relational
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – BCA 1st Sem.

Subject – Problem Solving Through C

Paper – (B23-CAP-101)

September, 2025 1 st Week 1 Sept – 6 Sept	Logical, Bitwise, Unary, Assignment, Conditional Operators and Special Operators.
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Type Casting and Conversion. Decision making with if statement, if-else statement, nested if statement, else-if ladder, switch and break statement, goto statement, Looping Statements: for, while, and do , while loop, jumps in loops.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Two Dimensional arrays -Declaration, Initialization and Memory representation

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – BCA 1st Sem.

Subject – Problem Solving Through C

Paper – (B23-CAP-101)

October, 2025 1 st Week 1 Oct – 4 Oct	Functions: definition, prototype, function call, passing arguments to a function: call by value; call by reference, recursive functions.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Strings: Declaration and Initialization, String I/O, Array of Strings, String Manipulation Functions: String Length, Copy, Compare, Concatenate etc., Search for a Substring.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Pointers in C: Declaring and initializing pointers, accessing address and value of variables using pointers;
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Pointers and Arrays.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – BCA 1st Sem.

Subject – Problem Solving Through C

Paper – (B23-CAP-101)

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	User defined data types: Structures - Definition, Advantages of Structure, declaring structure variables, accessing structure members,
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Structure members initialization, Array of Structures; Unions - Union definition; difference between Structure and Union
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – BCA 3rd Sem.

Subject – Basics of Data Science Using Excel

Paper – (B23-CAP-304)

August, 2025 1 st Week 1 Aug – 2 Aug	Introduction to Data Science: Definition, importance, and applications. Overview of Excel: Interface, basic functions, and features
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Data Types and Formats in Excel: Text, numbers, dates, and custom formats.
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Basic Data Manipulation: Sorting, filtering, and basic formulas (SUM, AVERAGE, COUNT).
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Data Import and Export: CSV, TXT, and Excel files. Data Cleaning Techniques:
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Handling missing values, duplicates, and errors. Data Transformation: Text-to-columns, concatenation, and data validation
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – BCA 3rd Sem.

Subject – Basics of Data Science Using Excel

Paper – (B23-CAP-304)

September, 2025 1 st Week 1 Sept – 6 Sept	Data Visualization: Creating and customizing charts (bar, line, pie).
7 Sept, 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Descriptive Statistics: Mean, median, mode, standard deviation, and variance. Inferential Statistics:
14 Sept, 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Hypothesis testing, t-tests, and chi-square tests. Regression Analysis: Simple linear regression and multiple regression.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Predictive Modeling: Introduction to basic predictive models and their implementation in Excel.
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Advanced Excel Functions: VLOOKUP, HLOOKUP

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Mamta Atreja

Class – BCA 3rd Sem.

Subject – Basics of Data Science Using Excel

Paper – (B23-CAP-304)

October, 2025 1 st Week 1 Oct – 4 Oct	INDEX-MATCH
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	PivotTables..
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Data Analysis ToolPak: Using Excel's built-in data analysis tools such as Descriptive Statistics,
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Histograms, Correlation, Regression.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Mamta Atreja

Class – BCA 3rd Sem.

Subject – Basics of Data Science Using Excel

Paper – (B23-CAP-304)

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	What-If Analysis Tools: Scenario Manager
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Goal Seek, and Data Tables
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – BCA 5th Sem.

Subject – Software Engineering

Paper — (B23-CAP-501)

August, 2025 1st Week 1 Aug – 2 Aug	Introduction: Program vs. Software, Software Engineering, Programming paradigms,
3 Aug, 2025	Sunday
2nd Week 4 Aug – 8 Aug	Software Crisis – problem and causes, Phases in Software development: Requirement Analysis,
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3rd Week 11 Aug - 14 Aug	Software Design, Coding, Testing, Maintenance, Software Development Process Models: Waterfall
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4th Week 18 Aug - 23 Aug	Prototype Evolutionary and Spiral models, Role of Metrics
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Feasibility Study
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – BCA 5th Sem.

Subject – Software Engineering

Paper — (B23-CAP-501)

September, 2025 1 st Week 1 Sept – 6 Sept	Software Requirement Analysis and Specifications: SRS, Need for SRS,
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Characteristics of an SRS, Components of an SRS, Problem Analysis, Information gathering tools, Requirement specification, validation and metrics.
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Structured Analysis and Tools: Data Flow Diagram, Data Dictionary, Decision table,
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Decision trees, Structured English, Entity-Relationship diagrams
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Software Project Planning: Cost estimation: COCOMO model, Project scheduling, Staffing, and personnel planning, team structure, Software configuration management,

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Mamta Atreja

Class – BCA 5th Sem.

Subject – Software Engineering

Paper — (B23-CAP-501)

October, 2025 1st Week 1 Oct – 4 Oct	Quality assurance plans, Project monitoring plans, Risk Management.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	Software Design: Design fundamentals, problem partitioning, and abstraction, design methodology, Cohesion & Coupling
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	Software testing strategies: unit testing, integration testing,
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	Validation testing, System testing, Alpha and Beta testing.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Mamta Atreja

Class – BCA 5th Sem.

Subject – Software Engineering

Paper – (B23-CAP-501)

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Software Maintenance: Type of maintenance, Management of Maintenance
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Maintenance Process, maintenance characteristics
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Mamta Atreja

Class – B.Sc.5th Sem. Physical Science(SFS+Aided)

Subject – Office Automation

Paper –B23-VOC-132

August, 2025 1 st Week 1 Aug – 2 Aug	Office Automation :Concept, benefits, various tools :Different automation software, Various appliances used in modern office.
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	MS Office :Introduction to MS -Word :Paragraph formatting; Header and footer ,tables ,mail merge, spell check, file operations, cut copy and paste drag and drop.
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	dynamic data ,find and replace, auto correct .
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	MS-Excel: Introduction worksheet ,data types,
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	usage of formula and calculation, different charts, functions ,tables and formatting, macros
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Mamta Atreja

Class – B.Sc.5th Sem. Physical Science(SFS+Aided)

Subject – Office Automation

Paper –B23-VOC-132

September, 2025 1st Week 1 Sept – 6 Sept	Power-Point: Introduction, creating a presentation,
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	formatting a presentation, adding effects to the presentation different views of slides
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	adding graphics, sounds and movies of a slide, effects.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Animation, multimedia in PPT ;Slide show Transition and timings;.
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Diagrams: Clipart and picture; File management; PowerPoint presentation on mobiles and desktops; Mobile apps for PPT

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Mamta Atreja

Class – B.Sc.5th Sem. Physical Science(SFS+Aided)

Subject – Office Automation

Paper –B23-VOC-132

October, 2025 1st Week 1 Oct – 4 Oct	E-mail Introduction ,services how does it works, how to make E-mail ID, advantages and limitation of E-mail, Receiving and sending E-mail messages
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	Information Technology in Business: Concept
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	Local area network: Media and Topologies
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	Wide area network :Media and Topologies

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Mamta Atreja
Class – B.Sc.5th Sem. Physical Science(SFS+Aided)
Subject – Office Automation
Paper –B23-VOC-132

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Electronic data processing ;Multimedia technologies
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Video conferencing; Cloud based storage of records.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher –Ms Megha
Class – M.Sc I CS
Subject – Advanced Data Structure and Algorithm
Paper – M24-CSE-103

5th Week 25 Aug - 30 Aug	Trees: AVL Trees, splay trees, B-Trees,
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher –Ms Megha

Class – M.Sc I CS

Subject – Advanced Data Structure and Algorithm

September, 2025 1st Week 1 Sept – 6 Sept	Red-Block Trees, Heaps: Binomial Heaps, Fibonacci Heaps, Pairing Heaps.
7 Sept, 2025	Sunday
2nd Week 8 Sept – 13 Sept	Graph: Graph Representation, Depth First Search (DFS), Breadth First Search.
14 Sept, 2025	Sunday
3rd Week 15 Sept – 20 Sept	Topological Sorting, Strongly Connected Components (SCC), Memory Allocation, Buddy System.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Memory Pool Allocation, Garbage Collection Algorithms.
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Graph Algorithm: Shortest Path Algorithm, (Dijkstra's Bellman-Ford, Floyd-Warshall), Minimum Spanning Tree, (Kruskal's, Prim's),

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher –Ms Megha
Class – M.Sc I CS
Subject – Advanced Data Structure and Algorithm
Paper – M24-CSE-103

October, 2025 1 st Week 1 Oct – 4 Oct	Network Flow (Ford-Fulkerson, Edmonds-Karp), Dynamic Programming, Matrix Chain Multiplication.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	longest common subsequence (LCS)Knapsack Problems.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Travelling Salesman Problem (TSP).
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Approximation Algorithm: Introduction to NP-Completeness, Approximation Techniques (Greedy, local search, linear programming).
November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	Specific Problems(Vertex Cover, Travelling Salesman Problem, Set Cover)Parallel Algorithms, Introduction to Parallel Computing, Parallel Sorting,(Bitonic sort, Parallel Merge Sort).
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Parallel Graph Algorithms (parallel BFS, parallel DFS), Parellel Algorithm Design and Analysis.
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher –Ms Megha
Class – B.A. I, B.Sc Life Sciences(Aided+SFS)
Subject – BASIC IT TOOLS
Paper – B23-SEC-103

5th Week 25 Aug - 30 Aug	Introduction to Computer: Computer and Latest IT gadgets.
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher –Ms Megha
Class – B.A. I, B.Sc Life Sciences(Aided+SFS)
Subject – BASIC IT TOOLS
Paper - B23-SEC-103

September, 2025 1st Week 1 Sept – 6 Sept	Evolution of Computers & its applications, Basics of Hardware and Software, Application Software.
7 Sept, 2025	Sunday
2nd Week 8 Sept – 13 Sept	Systems Software, Utility Software. Central Processing Unit, Input devices, Output devices, Computer Memory & storage, Mobile Apps.
14 Sept, 2025	Sunday
3rd Week 15 Sept – 20 Sept	Introduction to Operating System, Functions of the Operating system, Operating Systems for Desktop and Laptop.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application.
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Operating System Simple Setting, Changing System Date and Time, Changing Display Properties, To Add or Remove Program and Features, Adding, Removing & Sharing Printers, File and Folder Management.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher –Ms Megha
Class – B.A. I, B.Sc Life Sciences(Aided+SFS)
Subject – BASIC IT TOOLS
Paper - B23-SEC-103

October, 2025 1st Week 1 Oct – 4 Oct	Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN).
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	Network Topology, Internet, Applications of Internet, Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	Mozilla Firefox, Opera etc.), Popular Search Engines, Searching on the Internet.
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E-mail.
November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	replying to an E-mail message, forwarding an E-mail message, searching emails, Attaching files with email.
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Email Signature. Social Networking: Facebook, Twitter, LinkedIn.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Instagram, Instant Messaging (WhatsApp, Facebook Messenger, Telegram), Introduction to Blogs, Digital Locker.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Prashantika P Sanduja

Class – B.Sc. II CS

Subject – Operating Systems

Paper – B23-CSE-301

August, 2025 1 st Week 1 Aug – 2 Aug	Introductory Concepts: Operating System, Functions and Characteristics, Historical Evolution of Operating Systems
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Operating System Structure. Types of Operating System: Real-time Multiprogramming, Multiprocessing, Batch processing.
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Operating System Services, Operating System Interface, Service System Calls, and System Programs.
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Process Management: Process Concepts, Operations on Processes, Process States, and Process Control Block. Inter-Process Communication.
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Process Management: Process Concepts, Operations on Processes, Process States, and Process Control Block. Inter-Process Communication.
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Prashantika P Sanduja

Class – B.Sc. II CS

Subject – Operating Systems

Paper – B23-CSE-301

September, 2025 1 st Week 1 Sept – 6 Sept	CPU Scheduling: Scheduling Criteria, Levels of Scheduling, Scheduling Algorithms
7 Sept, 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Multiple Processor Scheduling, Algorithm Evaluation. Synchronization: Critical Section Problem, Semaphores, Classical Problem of Synchronization, Monitors.
14 Sept, 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Deadlocks: Deadlock Characterization, Methods for Handling Deadlocks.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Deadlock Prevention, Deadlock Avoidance
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Deadlock Detection and Recovery.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Prashantika P Sanduja

Class – B.Sc. II CS

Subject – Operating Systems

Paper – B23-CSE-301

October, 2025 1 st Week 1 Oct – 4 Oct	Memory Management Strategies: Memory Management of Single- User and Multiuser Operating Systems, Partitioning, Swapping, Contiguous Memory Allocation
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Paging and Segmentation; Virtual Memory Management: Demand Paging, Page Replacement Algorithms, Thrashing.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Implementing File System: File System Structure, File System Implantation
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	File Operations, Type of Files, Directory Implementation, Allocation Methods, and Free Space Management.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Prashantika P Sanduja

Class – B.Sc. II CS

Subject – Operating Systems

Paper – B23-CSE-301

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Disk Scheduling algorithm- SSTF, Scan, C- Scan, Look, C-Look. SSD Management.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Revision
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Prashantika P Sanduja

Class – M.Sc. Computer Science (Software) 3rd Semester

Subject – Principles of programming Languages

Paper – M24-CSE-307

August, 2025 1st Week 1 Aug – 2 Aug	Preliminaries: History, Impact of Programming Paradigms, Role of Programming Languages, Good Language.
3 Aug, 2025	Sunday
2nd Week 4 Aug – 8 Aug	Effects of Programming Environment, Translators and virtual architectures, Binding and Binding time
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3rd Week 11 Aug - 14 Aug	Language Syntax, Analysis of Program, Synthesis of Object program
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4th Week 18 Aug - 23 Aug	Formal translation models: BNF Grammars, General parsing
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Language translation, Recursive descent parsing.
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Prashantika P Sanduja

Class – M.Sc. Computer Science (Software) 3rd Semester

Subject – Principles of programming Languages

Paper – M24-CSE-307

September, 2025 1st Week 1 Sept – 6 Sept	Formal languages and automata: The Chomsky hierarchy of formal languages, regular grammars
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Regular expressions, Finite State Automata, Context-free grammars, Pushdown automata
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	Ambiguous grammars, Language Semantics: Attribute grammars, Denotational semantics
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Program verification and validation
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Data objects, variables, constants, data types, declaration, type checking, type casting, type promotion, Enumerators, Composite data types.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Prashantika P Sanduja

Class – M.Sc. Computer Science (Software) 3rd Semester

Subject – Principles of programming Languages

Paper – M24-CSE-307

October, 2025 1 st Week 1 Oct – 4 Oct	Object Orientated concepts: Structured data types, Abstract data types, Information hiding, Subprogram concepts, Good program design, Type definitions, Type equivalence, Inheritance
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Derived classes, Abstract classes, Polymorphism, Inheritance and software reuse, Sequence control: Implicit and explicit sequence control
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Sequence control within arithmetic expressions, sequence control between statements, sequencing with non-arithmetic expressions, Subprogram Sequence control.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Parameter passing techniques, Static & Dynamic Scoping, Storage of variables, Static storage, Heap Storage management, Distributed Processing.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Prashantika P Sanduja

Class – M.Sc. Computer Science (Software) 3rd Semester

Subject – Principles of programming Languages

Paper – M24-CSE-307

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Exceptions and Exception handlers, Co-routines, Scheduled subprograms, Parallel programming, Processor design, Hardware and Software architectures, Network Programming, Evolution of scripting languages, Applets, XML.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Revision
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Prashantika P Sanduja

Class –BCA II Year 3rd Semester

Subject – Advance IT Skills

Paper – B23-SEC-301

August, 2025 1 st Week 1 Aug – 2 Aug	WWW and E-Governance - Website Address and URL, Introduction to IP, Address, ISP and Role of ISP
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Internet Protocol, Modes of Connecting Internet (HotSpot, Wifi, LAN Cable, BroadBand, USB Tethering), Identifying and uses of IP/MAC/IMEI of various devices, Downloading Web Pages
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Printing Web Pages Introduction to Blogs, Basics of E-commerce, Netiquettes, Overview of e-Governance Services like Railway Reservation
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Passport, eHospital [ORS], Accessing e-Governance Services on Mobile
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Digital Financial Tools and Applications Digital Financial Tools, Understanding OTP [One Time Password]and QR [Quick Response] Code, UPI [Unified Payment Interface]
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Prashantika P Sanduja

Class –BCA II Year 3rd Semester

Subject – Advance IT Skills

Paper – B23-SEC-301

September, 2025 1st Week 1 Sept – 6 Sept	AEPS [Aadhaar Enabled Payment System], USSD [Unstructured Supplementary Service Data], Card [Credit / Debit], eWallet, PoS [Point of Sale]
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Internet Banking, National Electronic Fund Transfer (NEFT), Real Time Gross Settlement (RTGS), Immediate Payment Service (IMPS), Online Bill Payment
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	Cyber Security: Cyber Security, Defining Cyberspace, Architecture of cyberspace, Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Classification of cybercrimes, Common cybercrimes- cybercrime targeting computers and mobiles, cybercrime against women and children, financial frauds, social engineering attacks
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	malware and ransomware attacks, zero day and zero click attacks, Cybercriminals modus-operandi , Reporting of cybercrimes, Remedial and mitigation measures

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (August to November, 2025)

Name of the Teacher – Prashantika P Sanduja

Class –BCA II Year 3rd Semester

Subject – Advance IT Skills

Paper – B23-SEC-301

October, 2025 1 st Week 1 Oct – 4 Oct	Legal perspective of cybercrime, IT Act 2000 and its amendments, Cybercrime and offences, Organisations dealing with Cybercrime and Cyber security in India.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Overview of Futureskills: Introduction to Internet of Things (IoT), Big Data Analytics
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Cloud Computing, Virtual Reality, Artificial Intelligence, Social & Mobile
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Blockchain Technology, 3D Printing/ Additive Manufacturing, Robotics Process Automation.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(August to November, 2025)**

Name of the Teacher – Prashantika P Sanduja

Class –BCA II Year 3rd Semester

Subject – Advance IT Skills

Paper – B23-SEC-301

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Revision of Unit I & Unit II
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Revision of Unit III & Unit IV
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class – B.Sc-I +B.A- I (1st Semester)

(Major Phy.Sc.SFS)

Subject – Problem Solving through C

Paper – B23-CSE-101

August, 2025 1 st Week 1 Aug – 2 Aug	Overview of C: History Importance, Structure of C Program, Character Set, Constants and Variables
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Identifiers and Keywords, Data Types, Assignment Statement, Symbolic Constant.
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Input/output: Formatted I/O Function-, Input Functions viz. scanf()
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	getch(), getche(), getchar(), gets(), output functions viz. printf(), putch(), putchar(), puts().
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Operators & Expression: Arithmetic, Relational, Logical, Bitwise, Unary, Assignment, Class Test-I
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class – B.Sc-I +B.A- I (1st Semester)

(Major Phy.Sc.SFS)

Subject – Problem Solving through C

Paper – B23-CSE-101

September, 2025 1 st Week 1 Sept – 6 Sept	Conditional Operators and Special Operators, Operator Hierarchy; Arithmetic Expressions, Evaluation of Arithmetic Expression, Type Casting and Conversion.
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Decision making with if statement, if- else statement, nested if statement, else-if ladder, switch and break statement, goto statement,
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Looping Statements: for, while, and do- while loop, jumps in loops. Assignment-I
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Arrays: One Dimensional arrays - Declaration, Initialization and Memory representation; Two Dimensional arrays –Declaration, Initialization and Memory representation.
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Functions: definition, prototype, function call,

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class – B.Sc-I +B.A- I (1st Semester)

(Major Phy.Sc.SFS)

Subject – Problem Solving through C

Paper – B23-CSE-101

October, 2025 1 st Week 1 Oct – 4 Oct	passing arguments to a function: call by value; call by reference, recursive functions. Strings: Declaration and Initialization, String I/O, Array of Strings,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	String Manipulation Functions: String Length, Copy, Compare, Concatenate etc., Search for a Substring. Assignment-II
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Pointers in C: Declaring and initializing pointers, accessing address and value of variables using pointers; Pointers and Arrays.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	User defined data types: Structures - Definition, Advantages of Structure, declaring structure variables, accessing structure members, Class Test-II

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Ms.Gurcharan kaur

Class – B.Sc-I +B.A- I (1st Semester)

(Major Phy.Sc.SFS)

Subject – Problem Solving through C

Paper – B23-CSE-101

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	Structure members initialization, Array of Structures; Unions - Union definition; difference between Structure and Union.
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Revision of Syllabus
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class– B.Sc-I(1st Semester) Minor Phy.Sc. Aided

Subject – Basics of Computer Sciencs

Paper – B23-CSE-103

August, 2025 1 st Week 1 Aug – 2 Aug	Introduction to Computers: Definition of Computers, Characteristics of computer
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	History and Generations of Computers,
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Classification of Computers.
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Fundamental Block diagram of Computer: CPU, Input & Output Unit.
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Input Devices: classification and use, keyboard, pointing devices - mouse, touch pad and track ball, joystick, magnetic stripes, scanner, digital camera, and microphone Output Devices: speaker, monitor, printers: classification, laser, ink jet, dot-matrix. Plotter. Assignment-I
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class– B.Sc-I(1st Semester) Minor Phy.Sc. Aided

Subject – Basics of Computer Sciences

Paper – B23-CSE-103

September, 2025 1 st Week 1 Sept – 6 Sept	Software: Definition of Software,
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Types of Software-System Software, Application software and Utility software.
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Types of Computer Languages, Assemblers, Interpreters, Compiler. Class Test-I
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Introduction to OperatingSystems: Types of Operating System, Functions of Operating System.
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Windows: Introduction to Windows, Starting Windows, Desk Top, Task Bar, Opening and closing applications, icons- creating, renaming and removing.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class– B.Sc-I(1st Semester)Minor Phy.Sc. Aided

Subject – Basics of Computer Sciencs

Paper – B23-CSE-103

October, 2025 1 st Week 1 Oct – 4 Oct	Date and Time setting, Working with files and folders-creating, deleting, opening, finding, copying, moving, and renaming
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Networking: Concept, Basic Elements of a Communication System, Assignment-II
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Data Transmission Media, LAN, MAN, WAN.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Introduction of Internet and WWW, Basic working of a Web Browser, Class Test-II

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Ms.Gurcharan kaur
Class– B.Sc-I(1st Semester)Minor Phy.Sc. Aided
Subject – Basics of Computer Sciencs
Paper – B23-CSE-103

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Introduction to popular web browsers.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Revision of Syllabus
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class–B.Sc-II(3rd Semester)Minor Phy.Sc. Aided

Subject – Knowledge of Basics of Programming using Python

Paper – B23-CSE-304

August, 2025 1 st Week 1 Aug – 2 Aug	Introduction to Python: setting up Python environment,
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	writing and executing Python scripts, variables and data types, input/output,
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	type casting, comments, operators (arithmetic, relational, logical, assignment)
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Bitwise, identity, membership
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Control structures: conditional statements (if, if-else, elif), Assignment-I
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Ms.Gurcharan kaur

Class–B.Sc-II(3rd Semester)Minor Phy.Sc. Aided

Subject – Knowledge of Basics of Programming using Python

Paper – B23-CSE-304

September, 2025 1st Week 1 Sept – 6 Sept	loops (for, while), loop control (break, continue, pass)
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	range and enumerate functions, nested loops, Basic problem-solving using loops
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	Functions: built-in functions, user-defined functions Class Test-I
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	function arguments and return values, scope and lifetime of variables,
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	recursion, lambda functions, modules and importing, creating and using custom modules

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class–B.Sc-II(3rd Semester)Minor Phy.Sc. Aided

Subject – Knowledge of Basics of Programming using Python

Paper – B23-CSE-304

October, 2025 1 st Week 1 Oct – 4 Oct	Data structures in Python: lists, tuples, sets, dictionaries,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	list/set/dictionary comprehensions
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	file handling: reading and writing text and CSV files Assignment-II
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Class Test-II

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Ms.Gurcharan kaur

Class–B.Sc-II(3rd Semester)Minor Phy.Sc. Aided

Subject – Knowledge of Basics of Programming using Python

Paper – B23-CSE-304

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	exception handling: try, except, finally, raising exceptions
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Revision of Syllabus
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class–BBA-II (3rd Semester)

Subject – Computer Science

Paper – Advance IT Skills (B23-SEC-301)

August, 2025 1st Week 1 Aug – 2 Aug	WWW and E-Governance - Website Address and URL, Introduction to IP, Address, ISP and Role of ISP, Internet Protocol
3 Aug, 2025	Sunday
2nd Week 4 Aug – 8 Aug	Modes of Connecting Internet (HotSpot, Wifi, LAN Cable, BroadBand, USB Tethering), Identifying and uses of IP/MAC/IMEI of various devices, Downloading Web Pages, Printing Web Pages
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3rd Week 11 Aug - 14 Aug	Introduction to Blogs, Basics of E-commerce, Netiquettes, Overview of e-Governance Services like Railway Reservation, Passport, eHospital [ORS], Accessing e-Governance Services on Mobile
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4th Week 18 Aug - 23 Aug	Digital Financial Tools and Applications Digital Financial Tools, Understanding OTP [One Time Password]and QR [Quick Response] Code, UPI [Unified Payment Interface], Assignment-I
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	AEPS [Aadhaar Enabled Payment System], USSD[Unstructured Supplementary Service Data], Card [Credit / Debit],
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class–BBA-II (3rd Semester)

Subject – Computer Science

Paper – Advance IT Skills (B23-SEC-301)

September, 2025 1 st Week 1 Sept – 6 Sept	eWallet, PoS [Point of Sale], Internet Banking
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	National Electronic Fund Transfer (NEFT), Real Time Gross Settlement (RTGS), Immediate Payment Service (IMPS), Online Bill Payment Class Test-I
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Cyber Security: Cyber Security, Defining Cyberspace, ,
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Architecture of cyberspace
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Regulation of cyberspace, Concept of cyber security, Issues and challenges of cyber security.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms.Gurcharan kaur

Class–BBA-II (3rd Semester)

Subject – Computer Science

Paper – Advance IT Skills (B23-SEC-301)

October, 2025 1st Week 1 Oct – 4 Oct	Classification of cybercrimes, Common cybercrimes- cybercrime targeting computers and mobiles, cybercrime against women and children, financial frauds, social engineering attacks,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	malware and ransomware attacks, zero day and zero click attacks, Cybercriminals modus-operandi , Assignment-II
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	Reporting of cybercrimes, Remedial and mitigation measures, Legal perspective of cybercrime, IT Act 2000 and its amendments, Cybercrime and offences, Organisations dealing with Cybercrime and Cyber security in India.
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	Overview of Futureskills: Introduction to Internet of Things (IoT), Big Data Analytics, Cloud Computing, Virtual Reality, Class Test-II

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Ms.Gurcharan kaur
Class–BBA-II (3rd Semester)
Subject – Computer Science
Paper – Advance IT Skills (B23-SEC-301)

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Artificial Intelligence, Social & Mobile, Blockchain Technology, 3D Printing/ Additive Manufacturing, Robotics Process Automation.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Revision of Syllabus
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Gurcharan Kaur

Class – B.A.-I (1st Semseter)

Subject – Computer Science

Paper – Basic IT Tools (B23-SEC-103)

August, 2025 1 st Week 1 Aug – 2 Aug	Introduction to Computer: Computer and Latest IT gadgets, Evolution of Computers
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Block Diagram of Computers
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Applications of Computers, Basics of Hardware and Software,
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Application Software, Systems Software, Utility Software. Central Processing Unit Assignment- I
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Input devices, Output devices, Computer Memory & storage, Mobile Apps.
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Gurcharan Kaur

Class – B.A.-I (1st Semster)

Subject – Computer Science

Paper – Basic IT Tools (B23-SEC-103)

September, 2025 1st Week 1 Sept – 6 Sept	Introduction to Operating System, Functions of the Operating system
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Operating Systems for Desktop and Laptop, Operating Systems for Mobile Phone and Tablets Class Test- I
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Operating System Simple Setting, Changing System Date and Time, Changing Display Properties, To Add or Remove Program and Features,
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Adding, Removing & Sharing Printers, File and Folder Management.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Gurcharan Kaur

Class – B.A.-I (1st Semseter)

Subject – Computer Science

Paper – Basic IT Tools (B23-SEC-103)

October, 2025 1 st Week 1 Oct – 4 Oct	Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN),
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Network Topology, Assignment -II
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Internet, Applications of Internet, Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.), Popular Search Engines, Searching on the Internet.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E-mail, Class Test- II

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Gurcharan Kaur

Class – B.A.-I (1st Semster)

Subject – Computer Science

Paper – Basic IT Tools (B23-SEC-103)

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	Replying to an E-mail message, forwarding an E-mail message, searching emails, Attaching files with email, Email Signature.
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Revision of Syllabus
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. LEENA

Class – BCA-I

Subject – Logical Organization of Computer

Paper – B23-CAP-103

August, 2025 1st Week 1 Aug – 2 Aug	Number Systems: Binary, Octal, Hexadecimal, etc. Conversions from one number system to another, BCD Number System.
3 Aug, 2025	Sunday
2nd Week 4 Aug – 8 Aug	BCD Codes: Natural Binary Code, Weighted Code, Self Complimenting Code, Cyclic Code. Error Detecting and Correcting Codes.
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3rd Week 11 Aug - 14 Aug	Character representations: ASCII, EBCDIC, and Unicode. Number Representations: Integer numbers - sign-magnitude, 1's & 2's complement representation.
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4th Week 18 Aug - 23 Aug	Real Numbers normalized floating point representations. Binary Arithmetic: Binary Addition, Binary Subtraction, Binary Multiplication.
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Binary Division using 1's and 2's Complement representations, Addition and subtraction with BCD representations.
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Ms. LEENA

Class – BCA-I

Subject – Logical Organization of Computer

Paper – B23-CAP-103

September, 2025 1st Week 1 Sept – 6 Sept	Boolean Algebra: Boolean Algebra Postulates, basic Boolean Theorems, Boolean Expressions, Boolean Functions, Truth Tables.
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Canonical Representation of Boolean Expressions: SOP and POS.
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	Simplification of Boolean Expressions using Boolean Postulates & Theorems, Karnaugh-Maps (upto four variables).
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Handling Don't Care conditions. Logic Gates: Basic Logic Gates – AND, OR, NOT.
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Universal Gates – NAND, NOR, Other Gates – XOR, XNOR, etc.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms. LEENA

Class – BCA-I

Subject – Logical Organization of Computer

Paper – B23-CAP-103

October, 2025 1 st Week 1 Oct – 4 Oct	Their symbols, truth tables, and Boolean expressions. Combinational Circuits: Design Procedures, Half Adder, Full Adder, Half Subtractor.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Full Subtractor, Multiplexers, Demultiplexers, Decoder, Encoder.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Comparators, Code Converters, Sequential Circuits.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Basic Flip-Flops and their working. Synchronous and Asynchronous Flip-Flops, Triggering of FlipFlops, Clocked RS, D Type.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms. LEENA

Class – BCA-I

Subject – Logical Organization of Computer

Paper – B23-CAP-103

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	JK, T type, and Master-Slave Flip-Flops. State Table, State Diagram, and State Equations. Flip-flops characteristics & Excitation Tables.
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Sequential Circuits: Designing registers –Serial-In Serial-Out (SISO), Serial-In Parallel-Out (SIPO), Parallel-In Serial-Out (PISO) Parallel-In Parallel-Out (PIPO) and shift registers.
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. LEENA

Class – B.A.-I (1st Semseter)

Subject – Computer Science

Paper – Basic IT Tools (B23-SEC-103)

August, 2025 1 st Week 1 Aug – 2 Aug	Introduction to Computer: Computer and Latest IT gadgets, Evolution of Computers
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Block Diagram of Computers
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Applications of Computers, Basics of Hardware and Software,
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Application Software, Systems Software, Utility Software. Central Processing Unit Assignment- I
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Input devices, Output devices, Computer Memory & storage, Mobile Apps.
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. LEENA

Class – B.A.-I (1st Semster)

Subject – Computer Science

Paper – Basic IT Tools (B23-SEC-103)

September, 2025 1st Week 1 Sept – 6 Sept	Introduction to Operating System, Functions of the Operating system
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Operating Systems for Desktop and Laptop, Operating Systems for Mobile Phone and Tablets Class Test- I
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Operating System Simple Setting, Changing System Date and Time, Changing Display Properties, To Add or Remove Program and Features,
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Adding, Removing & Sharing Printers, File and Folder Management.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. LEENA

Class – B.A.-I (1st Semster)

Subject – Computer Science

Paper – Basic IT Tools (B23-SEC-103)

October, 2025 1st Week 1 Oct – 4 Oct	Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN),
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	Network Topology, Assignment -II
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	Internet, Applications of Internet, Website Address and URL, Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox, Opera etc.), Popular Search Engines, Searching on the Internet.
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox, Creating and Sending a new E-mail, Class Test- II

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. LEENA

Class – B.A.-I (1st Semseter)

Subject – Computer Science

Paper – Basic IT Tools (B23-SEC-103)

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Replying to an E-mail message, forwarding an E-mail message, searching emails, Attaching files with email, Email Signature.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Revision of Syllabus
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. LEENA

Class – M.Sc-II

Subject – Machine Learning using Python

Paper – M24-CSE-302

August, 2025 1st Week 1 Aug – 2 Aug	Python Programming: Strings - String slices, immutability, string functions and methods, string module; Lists, Tuples.
3 Aug, 2025	Sunday
2nd Week 4 Aug – 8 Aug	Dictionaries: Lists - Lists as arrays Traversing a List, list operations, list slices, list methods, Map, Filter and Reduce, list loop, mutability, aliasing, cloning lists.
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3rd Week 11 Aug - 14 Aug	list parameters; Dictionaries - operations and methods; advanced list processing - list comprehension; Tuples - tuple assignment, tuple as return value. Files and Modules.
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4th Week 18 Aug - 23 Aug	Files and exception - text files, reading and writing files, format operator; command line arguments, errors and exceptions, handling exceptions, modules.
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Packages in Python: PANDAS, NUMPY, SCIKIT-LEARN, MATPLOTLIB. NumPy - Introduction, Narray, Object .
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. LEENA

Class – M.Sc-II

Subject – Machine Learning using Python

Paper – M24-CSE-302

September, 2025 1st Week 1 Sept – 6 Sept	Data types, Array Attributes, Array Creation Routines, Indexing & Slicing, Advanced Indexing, Broadcasting, Iterating Over Array.
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Array Manipulation, Binary Operators, String Functions, Mathematical Functions, Mathematical Functions, Arithmetic Operations, Statistical Functions, Linear Algebra, Matplotlib(Used for data visualization).
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	Histogram Using Matplotlib. Pandas: Performing data cleaning and analysis, Loading data with Pandas (data manipulation and analysis), Working with and Saving data with Pandas.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Using Scikit-Learn for Linear Regression, Logistic Regression, Decision Tree, Naive Bayes, KNN, SVN, k Mean Clustering, Random Forest.
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Introduction to Machine Learning – Well defined learning problems, Designing a Learning System.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. LEENA

Class – M.Sc-II

Subject – Machine Learning using Python

Paper – M24-CSE-302

October, 2025 1st Week 1 Oct – 4 Oct	Issues in Machine Learning. The Concept Learning Task - General-to-specific ordering of hypotheses.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	Find-S, List then eliminate algorithm, Candidate elimination algorithm, Inductive bias Decision Tree Learning - Decision tree learning algorithm. .
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	Inductive bias- Issues in Decision tree learning.
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	Bayesian Learning: Bayes theorem, Concept learning, Bayes Optimal Classifier, Naïve Bayes classifier, Bayesian belief networks.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. LEENA

Class – M.Sc-II

Subject – Machine Learning using Python

Paper – M24-CSE-302

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	EM algorithm. Computational Learning Theory: Sample Complexity for Finite Hypothesis spaces, Sample Complexity for Infinite Hypothesis spaces
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	The Mistake Bound Model of Learning. Instance-Based Learning – k-Nearest Neighbour Learning, Locally Weighted Regression, Radial basis function networks, Case-based learning.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL
Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – BCA IIIrd Sem

Subject – Linux and Shell Programming

Paper – B23-CAP-302

August, 2025 1 st Week 1 Aug – 2 Aug	Introduction to Linux: Linux distributions, Overview of Linux operating system
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Linux architecture, Features of Linux, Accessing Linux system, Starting and shutting down system
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Logging in and Logging out, Comparison of Linux with other operating systems
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Commands in Linux: General-purpose commands, File oriented commands
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	directory-oriented commands, Communication-oriented commands, process-oriented commands
31 Aug, 2025	Sunday
September, 2025 1 st Week 1 Sept – 6 Sept	Regular expressions & Filters in Linux
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Simple filters viz. more, wc, diff, sort, uniq, grep
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Introducing regular expressions
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Linux file system: Linux files, inodes and structure and file system

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL
Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – BCA IIIrd Sem

Subject – Linux and Shell Programming

Paper – B23-CAP-302

28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	file system components, standard file system, file system types.
October, 2025 1 st Week 1 Oct – 4 Oct	Processes in Linux: Starting and Stopping Processes, Initialization Processes,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Mechanism of process creation, and Job control in Linux using at
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Job control in Linux using at, batch, cron & time.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Shell Programming: vi editor, shell variables
November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	I/O in shell, control structures, loops, subprograms
16 Nov, 2025	Sunday

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL
Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – BCA IIIrd Sem

Subject – Linux and Shell Programming

Paper – B23-CAP-302

4th Week 17 Nov - 22 Nov	creating & executing shell scripts in Linux.
23 Nov, 2025	Sunday
5th Week 24 November, 2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – BCA vth Sem

Subject – Back-end Development

Paper – B23-CAP-502

August, 2025 1 st Week 1 Aug – 2 Aug	Introduction to back-end Development: Overview of backend
3 Aug, 2025	Sunday
2 nd Week 4 Aug – 8 Aug	Client-server architecture, Introduction to web servers
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3 rd Week 11 Aug - 14 Aug	Introduction to web servers and database , Programming Languages
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4 th Week 18 Aug - 23 Aug	Version control with Git , Introduction to IDEs.
24 Aug, 2025	Sunday
5 th Week 25 Aug - 30 Aug	Integrated Development Environments of chosen language
31 Aug, 2025	Sunday
September, 2025 1 st Week 1 Sept – 6 Sept	Performance Optimization and Security: Caching strategies
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Query Optimization

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – BCA vth Sem

Subject – Back-end Development

Paper – B23-CAP-502

14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Database Management: Introduction to databases and DBMS (SQL and NoSQL)
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Designing a database schema
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	CRUD operations (Create, Read, Update, Delete)
October, 2025 1 st Week 1 Oct – 4 Oct	Connecting applications to a database
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Server-Side Frameworks: Overview of popular server-side frameworks (e.g., Express.js)
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Building a simple application using a framework
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	API Development: RESTful API concepts

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – BCA vth Sem

Subject – Back-end Development

Paper – B23-CAP-502

November, 2025 1 st Week 1 Nov, 2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	Designing and documenting APIs
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	Authentication and authorization basics Web security best practices (SQL injection, XSS, CSRF)
23 Nov, 2025	Sunday
5 th Week 24 November, 2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – M.com 3rd Sem

Subject – Python Programming

Paper – M24-OEC-307

August, 2025 1st Week 1 Aug – 2 Aug	Introduction to Python Programming: History and features of Python
3 Aug, 2025	Sunday
2nd Week 4 Aug – 8 Aug	Installing Python and working with IDEs
9 Aug, 2025 10 Aug, 2025	Raksha Bandhan Sunday
3rd Week 11 Aug - 14 Aug	Python syntax and indentation; Variables and data types
15 Aug, 2025 16 Aug, 2025 17 Aug, 2025	Independence Day Janmashtmi Sunday
4th Week 18 Aug - 23 Aug	Type conversion; Input and output functions
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Arithmetic, relational, logical and assignment operators
31 Aug, 2025	Sunday
September, 2025 1st Week 1 Sept – 6 Sept	Conditional statements – if, if-else, if-elif-else
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Looping structures – for loop, while loop; Loop control statements – break, continue, pass

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – M.com 3rd Sem

Subject – Python Programming

Paper – M24-OEC-307

14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Strings and Lists: String creation and indexing, String operations and built-in methods
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	String slicing and formatting; List creation, indexing, updating and deletion List operations and methods.
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Nested lists; Iterating through strings and lists; List comprehensions
October, 2025 1 st Week 1 Oct – 4 Oct	Tuples, Sets and Dictionaries: Tuples – creation, indexing and immutability
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Tuple operations; Set creation and operations; Set methods and membership testing
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Dictionary creation and access; Dictionary methods – update, pop, keys, values, items
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Iterating through tuples, sets and dictionaries.

KUMARI VIDYAVATI ANAND
D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester
(July to November, 2025)

Name of the Teacher – Ms. Saumya Kumar

Class – M.com 3rd Sem

Subject – Python Programming

Paper – M24-OEC-307

November, 2025 1st Week 1 Nov, 2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Functions: Defining and calling functions; Function arguments – positional, keyword, default, variable-length
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Return values and scope of variables; Recursive functions; Lambda functions
23 Nov, 2025	Sunday
5th Week 24 November, 2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Vinay

Class – B.Sc (Physical Science) I + B.Com I

Subject – Basic IT Tools

Paper – B23-SEC-103

4th Week 18 Aug - 23 Aug	Introduction to Computer: Computer and Latest IT gadgets,
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Evolution of Computers & its applications, Basics of Hardware and Software,
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Vinay

Class – B.Sc (Physical Science) I + B.Com I

Subject – Basic IT Tools

Paper – B23-SEC-103

September, 2025 1 st Week 1 Sept – 6 Sept	Application Software, Systems Software, Utility Software. Central Processing Unit, Input devices, Output devices, Computer Memory & storage, Mobile Apps.
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Introduction to Operating System, Functions of the Operating system, Operating Systems for Desktop and Laptop
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Operating System Simple Setting, Changing System Date and Time
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Changing Display Properties, To Add or Remove Program and Features, Adding, Removing & Sharing Printers, File and Folder Management.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Vinay

Class – B.Sc (Physical Science) I + B.Com I

Subject – Basic IT Tools

Paper – B23-SEC-103

October, 2025 1 st Week 1 Oct – 4 Oct	Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Network Topology, Internet, Applications of Internet, Website Address and URL,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox (Opera etc.), Popular Search Engines, Searching on the Internet.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox,
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Creating and Sending a new E-mail, replying to an E-mail message

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Vinay
Class – B.Sc (Physical Science) I + B.Com I
Subject – Basic IT Tools
Paper – B23-SEC-103

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Attaching files with email, Email Signature. Social Networking: Facebook. Twitter, LinkedIn, Instagram.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Instant Messaging (WhatsApp, Facebook Messenger(Telegram), Introduction to Blogs, Digital Locker.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms. Vinay

Class – M.Sc (Comp. sci. Final Year)

Subject – Linux Administration

Paper – M24-CSE-304

4th Week 18 Aug - 23 Aug	Introduction to Linux and File System: Linux architecture and kernel overview; Boot process and run levels; Basic shell commands (ls, cp, mv, rm, cat, more, less, etc.)
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	File system hierarchy (/ , /home, /etc, /var, /tmp, etc.); File types and permissions; Creating and managing files and directories; Disk partitions; File systems (ext3, ext4, xfs); Mounting and unmounting file systems
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Vinay
Class – M.Sc. (Comp. Sci. Final Year)
Subject – Linux Administration
Paper- M24-CSE-304

September, 2025 1st Week 1 Sept – 6 Sept	User and Group Management, Permissions: Managing users and groups (useradd, usermod, passwd, groupadd, etc.)
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Understanding /etc/passwd, /etc/shadow, /etc/group; File permissions and ownership (chmod, chown, chgrp); Special permissions (SUID, SGID, Sticky Bit)
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	User environment configuration files; Switching users (su, sudo); Disk quotas; Log files and log management (/var/log/)
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Intents and Broadcasts: Intent – Using intents to launch Activities, Explicitly starting new Activity, Implicit Intents, Passing data to Intents, Getting results from Activities.
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Process and Package Management: Understanding processes (ps, top, nice, renice, kill, killall); Scheduling jobs (cron, at, anacron);

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms. Vinay
Class – M.Sc. (Comp. sci.) Final Year
Subject – Linux Administration
Paper – M24-CSE-304

October, 2025 1 st Week 1 Oct – 4 Oct	System services (systemd, service, chkconfig); Package management using apt and dpkg (Debian-based systems)
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Package management using yum, dnf and rpm (Red Hat-based systems)
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Networking, Security and Backup: Linux networking basics (IP, ifconfig/ip, ping, netstat, ss)
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Networking, Security and Backup: Linux networking basics (IP, ifconfig/ip, ping, netstat, ss)

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms. Vinay
Class – M.Sc. (Computer Science Final Year)
Subject – Linux Administration
Paper – M24-CSE-304

November, 2025 1 st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2 nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3 rd Week 10 Nov - 15 Nov	Configuring network interfaces and hostnames; Network configuration files; Firewall configuration using iptables and firewalld
16 Nov, 2025	Sunday
4 th Week 17 Nov - 22 Nov	SSH server and client configuration; File transfer using scp, rsync, sftp
23 Nov, 2025	Sunday
5 th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Ms. Vinay

Class – M.Sc (Comp. Sci. Final Year)

Subject – Mobile Application Development

Paper – M24-CSE-301

4th Week 18 Aug - 23 Aug	Introduction: Mobile Applications, Characteristics and Benefits, Application Models, Mobile devices Profiles. Basics of Android, Importance and scope.
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Android Versions, Features of Android, Android Architecture, Android Stack, Android Applications Structure, Android Emulator, Android SDK
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms. Vinay

Class – M.Sc. (Comp. Sci. Final Year)

Subject – Mobile Application Development

Paper – M24-CSE-301

September, 2025 1 st Week 1 Sept – 6 Sept	Overview of Android Studio, Android and File Structure, Android Virtual Device Manager, DDMS, LogCat, Understanding Activities.
7 Sept, 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Android User Interface: Measurements – Device and pixel density independent measuring units. Layouts – Linear, Relative, Grid and Table Layouts.
14 Sept, 2025	Sunday
3 rd Week 15 Sept – 20 Sept	User Interface (UI) Components – Editable and non-editable Text Views, Buttons, Radio and Toggle Buttons, Checkboxes, Spinners, Dialog and pickers, List View, Spinner View. Event Handling – Handling clicks or changes of various UI components.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Intents and Broadcasts: Intent – Using intents to launch Activities, Explicitly starting new Activity, Implicit Intents, Passing data to Intents, Getting results from Activities.
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Native Actions, using Intent to dial a number or to send SMS Services- Callbacks and Override in application, Application Signing, API keys for Google Maps, Publishing application to the Android Market.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher – Ms. Vinay
Class – M.Sc. (Comp. Sci. Final Year)
Subject – Mobile Application Development
Paper – M24-CSE-301

October, 2025 1 st Week 1 Oct – 4 Oct	Fragments – Creating fragments, Lifecycle of fragments, Fragment states, Adding fragments to Activity, adding, removing and replacing fragments with fragment transactions, interfacing between fragments and Activities, Multi-screen Activities
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Location and Mapping: location based services, Mapping, Google Maps activity, Working with MapView and MapActivity; Playing and Recording of Audio and
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Video in application; Sensors and Near Field Communication; Native libraries and headers, Building client server applications.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Using Graphics: Canvas Drawing, Shadows, and Gradients. Persisting Data to files: Saving to Internal Storage, Saving to External

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher – Ms. Vinay
Class – M.Sc. (Comp. Sci. Final Year)
Subject – Mobile Application Development
Paper – M24-CSE-301

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Storage Introduction to SQLite database: creating and opening a database, creating tables, inserting retrieving and deleting data,
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Registering Content Providers, Using content Providers (insert, delete, retrieve and update }
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class –M.Sc I

Subject –Advanced Computer Architecture

Paper – M24-CSE-102

September, 2025 1st Week 1 Sept – 6 Sept	Computational Model: Basic computational models, evolution and interpretation of computer architecture, concept of computer architecture as a multilevel hierarchical framework. Classification of parallel architectures
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Relationships between programming languages and parallel architectures, Parallel Processing: Types and levels of parallelism Instruction Level Parallel (ILP) processors, dependencies between instructions, principle and general structure of pipelines
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	performance measures of pipeline, pipelined processing instructions, Code Scheduling for ILP Processors- Basic block scheduling, loop scheduling, global scheduling
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Superscalar Processors: Emergence of superscalar processors, Tasks of superscalar processing – parallel decoding
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Superscalar instruction issue, shelving, register renaming, parallel execution, preserving sequential consistency of instruction execution and exception processing

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class –M.Sc I

Subject –Advanced Computer Architecture

Paper – M24-CSE-102

October, 2025 1st Week 1 Oct – 4 Oct	Branch Handling: Branch problem, Approaches to branch handling – delayed branching, Branch detection and prediction schemes, branch penalties and schemes to reduce them, Multiway branches, guarded execution,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	Comparison of VLIW & superscalar processors, MIMD Architectures: Concepts of distributed and shared memory MIMD architectures,
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	UMA, NUMA, CCNUMA & COMA models, problems of scalable computers. Direct Interconnection Networks: Linear array, ring, chordal rings, star, tree, 2D mesh, barrel shifter, hypercubes
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	Dynamic interconnection networks: single shared buses, comparison of bandwidths of locked, pended & split transaction buses,

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class –M.Sc I

Subject –Advanced Computer Architecture

Paper – M24-CSE-102

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Arbiter logics, crossbar, multistage networks – omega, butterfly, Cache coherence problem, hardware based protocols – snoopy cache protocol, directory schemes,
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Hierarchical cache coherence protocols, Software based protocols.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder kaur

Class – B.C.A III

Subject – Office Automation

Paper – B23-VOC-132

4th Week 18 Aug - 23 Aug	Office Automation: Concept, benefits, various tools, different automation software; Various appliances used in modern office.
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	MS-Office: Introduction to MS-Word; Paragraph formatting: Header and footer, tables, mail merge, spell check, file operations, cut, copy and paste
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Sukhwinder Kaur

Class –B.C.A III

Subject –Office Automation

Paper – B23-VOC-132

September, 2025 1 st Week 1 Sept – 6 Sept	Drag and drop, dynamic data, find and replace, auto correct; MS-Excel: Introduction work sheet, data types, usage of formula and calculations
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Different charts, functions, tables and formatting, macros. Power-Point: Introduction, creating a presentation formatting a presentation.
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Adding effects t the presentation, different views of slides, adding graphics, sounds and movies of a slide, effects animations, multimedia in PPT;
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Slide show: Transition and timings; Diagrams: Clipart and picture; File management; PowerPoint presentation on mobiles and desktops; Mobile apps for PPT;
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	E-mail: Introduction, services, how does it works, how to make E-mail ID,

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class – B.C.A III

Subject – Office Automation

Paper – B23-VOC-132

October, 2025 1st Week 1 Oct – 4 Oct	Advantages and limitations of E-mail, receiving and sending E-mail messages.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	Information Technology in Business: Concept;
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	Local Area Network: Media & Topologies and Wide Area Network
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	Electronic data processing; Multimedia technologies;

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class – B.A.A III

Subject – Office Automation

Paper – B23-VOC-132

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Video conferencing; Cloud based storage of reecords
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Revisions
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class – B.Com II

Subject – Advanced IT Skills

Paper – B23-SEC-301

4th Week 18 Aug - 23 Aug	WWW and E-Governance - Website Address and URL, Introduction to IP, Address, ISP and Role of ISP, Internet Protocol,
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Modes of Connecting Internet (HotSpot, Wifi, LAN Cable, BroadBand, USB Tethering), Identifying and uses of IP/MAC/IMEI of various devices, Downloading Web Pages, Printing Web Pages Introduction to Blogs
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Sukhwinder Kaur

Class – B.Com II

Subject – Advanced IT Skill

Paper – B23-SEC-301

September, 2025 1 st Week 1 Sept – 6 Sept	Basics of E-commerce, Netiquettes, Overview of e-Governance Services like Railway Reservation, Passport, eHospital [ORS], Accessing e-Governance Services on Mobile
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Digital Financial Tools and Applications Digital Financial Tools
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Understanding OTP [One Time Password]and QR [Quick Response] Code, UPI [Unified Payment Interface], AEPS [Aadhaar Enabled Payment System],
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	USSD[Unstructured Supplementary Service Data], Card [Credit / Debit], eWallet, PoS [Point of Sale], Internet Banking, National Electronic Fund Transfer (NEFT),
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Real Time Gross Settlement (RTGS), Immediate Payment Service (IMPS), Online Bill Payment

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Sukhwinder Kaur

Class – B.Com II

Subject – Advanced IT Skills

Paper – B23-SEC-301

October, 2025 1 st Week 1 Oct – 4 Oct	Cyber Security: Cyber Security, Defining Cyberspace, Architecture of cyberspace, Regulation of cyberspace, Concept of cyber security,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Issues and challenges of cyber security. Classification of cybercrimes, Common cybercrimes- cybercrime targeting computers and mobiles,
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	cybercrime against women and children, financial frauds, social engineering attacks, malware and ransomware attacks, zero day and zero click attacks
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Cybercriminals modus-operandi , Reporting of cybercrimes, Remedial and mitigation measures, Legal perspective of cybercrime, IT Act 2000 and its amendments, Cybercrime and offences, Organisations dealing with Cybercrime and Cyber security in India.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class – B.Com II

Subject – Advanced IT Skills

Paper – B23-SEC-301

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Overview of Futureskills: Introduction to Internet of Things (IoT), Big Data Analytics, Cloud Computing, Virtual Reality, Artificial Intelligence,
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Social & Mobile, Blockchain Technology, 3D Printing/ Additive Manufacturing, Robotics Process Automation.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class –B.COM I

Subject – Basic IT Tools

Paper – B23-SEC-103

4th Week 18 Aug - 23 Aug	Introduction to Computer: Computer and Latest IT gadgets,
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Evolution of Computers & its applications, Basics of Hardware and Software,
31 Aug, 2025	Sunday

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class –B.COM I

Subject – Basic IT Tools

Paper – B23-SEC-103

September, 2025 1st Week 1 Sept – 6 Sept	Application Software, Systems Software, Utility Software. Central Processing Unit, Input devices, Output devices, Computer Memory & storage, Mobile Apps.
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Introduction to Operating System, Functions of the Operating system, Operating Systems for Desktop and Laptop
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Operating System Simple Setting, Changing System Date and Time
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Changing Display Properties, To Add or Remove Program and Features, Adding, Removing & Sharing Printers, File and Folder Management.

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Sukhwinder Kaur

Class –B.COM I

Subject – Basic IT Tools

Paper – B23-SEC-103

October, 2025 1 st Week 1 Oct – 4 Oct	Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Network Topology, Internet, Applications of Internet, Website Address and URL,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox (Opera etc.), Popular Search Engines, Searching on the Internet.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox,
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Creating and Sending a new E-mail, replying to an E-mail message

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Sukhwinder Kaur

Class –B.COM I

Subject – Basic IT Tools

Paper – B23-SEC-103

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Attaching files with email, Email Signature. Social Networking: Facebook. Twitter, LinkedIn, Instagram.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Instant Messaging (WhatsApp, Facebook Messenger(Telegram), Introduction to Blogs, Digital Locker.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Tamanna

Class – M.Sc. (Computer Science I Sem)

Subject – Object-Oriented Programming with Java

Paper – M24-CSE-104

September, 2025 1 st Week 1 Sept – 6 Sept	Introduction to Java: History features, and applications. Basics of Java programming: Syntax, variables, data types.
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Operators, expressions, and statements. Control flow: Decision-making statements (if, else-if, switch), Looping statements (for, while, do-while), and branching.
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Methods: Declaring methods, passing parameters, method overloading, and recursion. Arrays: Declaring, initializing, and manipulating arrays. Array operations and algorithms.
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Classes and Objects: Declaring classes, creating objects, constructors, and instance variable. Encapsulation: Access modifiers (public, private, protected, default) Getters, and Setters.
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Inheritance: Extending classes, method overriding, super keyword, and method overloading

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Tamanna

Class – M.Sc. (Computer Science I Sem)

Subject – Object-Oriented Programming with Java

Paper – M24-CSE-104

October, 2025 1 st Week 1 Oct – 4 Oct	Polymorphism: Method overriding, dynamic method dispatch, and abstract classes; Interfaces: Defining interfaces.
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Implementing interfaces, and using interface references;. Packages: Creating and using packages, importing classes and packages.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	Exception Handling: Understanding exceptions, try-catch block, Throw and throws keyword and finally blocks. File Handling; Reading from and writing to files using File input stream, File output stream, FileReader and FileWriter.
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Multithreading: Creating threads, thread lifecycle, synchronizatron, thread communication. Applet programming, Applet Life cycle, Applet Graphics Programing.

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna
Class – M.Sc. (Computer Science I Sem)
Subject – Object-Oriented Programming with Java
Paper – M24-CSE-104

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Event Handling: AWT Classes, ActionListener, MouseListener. MouseMotionListener. Layout managers. Generics: Introduction to Benerics, generic classes. generic methods.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Java database Connectivity (JDBC): Connecting to databases, executing SQL queries, handling transactions. Managing resources: GUI Programming: Introduction to Swing. Introduction to Swing for creating graphical user interface(GUIs),event handling, layout management.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna

Class – M.Sc. (Computer Science) I

Subject – Mathematical Foundation of Computer Science

Paper – M24-CSE-101

September, 2025 1 st Week 1 Sept – 6 Sept	Set Theory(Chapter discussed in detail with various examples) Relations, Types, Equivalence Relation, Partial order Relation
7 Sept , 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Poset, Lattice, Hasse Diagram Combinatorics: Basic counting: sum and product, balls and bins problems,
14 Sept , 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Generating Functions and Recurrence Relation Principal of Mathematical Induction, Pigeonhole Principle
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	Mathematical Logic: Propositional calculus, Syntax , Semantics, Truth table and assignments
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Validity and sustainability, Tautologies, Adequate set of connectives: Equivalence and Normal forms

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna

Class – M.Sc. (Computer Science) I

Subject – Mathematical Foundation of Computer Science

Paper – M24-CSE-101

October, 2025 1st Week 1 Oct – 4 Oct	Compactness and resolution, Formal reducibility-natural deduction n system
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2nd Week 6 Oct - 11 Oct	Axiom system; Soundness and Completeness Graph Theory: Introduction - Graph terminologies - types of Graphs - Sub Graph- Multi graphs
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3rd Week 13 Oct - 18 Oct	Regular Graph ,Isomorphism Graphs, Euler Graph, Euler Circuit
19 Oct – 26 Oct	Vacations (Diwali)
5th Week 27 Oct- 31 Oct	Subgraphs, Hamiltonian Graph- Problem related to graphs theory

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**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna

Class – M.Sc. (Computer Science) I

Subject – Mathematical Foundation of Computer Science

Paper – M24-CSE-101

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Tree-Properties-Distance and Centres-Types-Rooted Trees-Tree Enumeration Labeled Tree- Unlabeled Tree-Spanning Tree-Fundamental Circuit-Cut Sets,
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Cut Set Properties, Fundamental Circuit and Cut Set Connectivity Separability-Related Problems
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna

Class – B.Com II

Subject – Advanced IT Skills

Paper – B23-SEC-301

4th Week 18 Aug - 23 Aug	WWW and E-Governance - Website Address and URL, Introduction to IP, Address, ISP and Role of ISP, Internet Protocol,
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Modes of Connecting Internet (HotSpot, Wifi, LAN Cable, BroadBand, USB Tethering), Identifying and uses of IP/MAC/IMEI of various devices, Downloading Web Pages, Printing Web Pages Introduction to Blogs
31 Aug, 2025	Sunday

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Tamanna

Class – B.Com II

Subject – Advanced IT Skill

Paper – B23-SEC-301

September, 2025 1 st Week 1 Sept – 6 Sept	Basics of E-commerce, Netiquettes, Overview of e-Governance Services like Railway Reservation, Passport, eHospital [ORS], Accessing e-Governance Services on Mobile
7 Sept, 2025	Sunday
2 nd Week 8 Sept – 13 Sept	Digital Financial Tools and Applications Digital Financial Tools
14 Sept, 2025	Sunday
3 rd Week 15 Sept – 20 Sept	Understanding OTP [One Time Password]and QR [Quick Response] Code, UPI [Unified Payment Interface], AEPS [Aadhaar Enabled Payment System],
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4 th Week 24 Sept – 27 Sept	USSD[Unstructured Supplementary Service Data], Card [Credit / Debit], eWallet, PoS [Point of Sale], Internet Banking, National Electronic Fund Transfer (NEFT),
28 Sept, 2025	Sunday
5 th Week 29 Sept – 30 Sept, 2025	Real Time Gross Settlement (RTGS), Immediate Payment Service (IMPS), Online Bill Payment

KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN, KARNAL

Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Tamanna

Class – B.Com II

Subject – Advanced IT Skills

Paper – B23-SEC-301

October, 2025 1 st Week 1 Oct – 4 Oct	Cyber Security: Cyber Security, Defining Cyberspace, Architecture of cyberspace, Regulation of cyberspace, Concept of cyber security,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Issues and challenges of cyber security. Classification of cybercrimes, Common cybercrimes- cybercrime targeting computers and mobiles,
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	cybercrime against women and children, financial frauds, social engineering attacks, malware and ransomware attacks, zero day and zero click attacks
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Cybercriminals modus-operandi , Reporting of cybercrimes, Remedial and mitigation measures, Legal perspective of cybercrime, IT Act 2000 and its amendments, Cybercrime and offences, Organisations dealing with Cybercrime and Cyber security in India.

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KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna

Class – B.Com II

Subject – Advanced IT Skills

Paper – B23-SEC-301

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Overview of Futureskills: Introduction to Internet of Things (IoT), Big Data Analytics, Cloud Computing, Virtual Reality, Artificial Intelligence,
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Social & Mobile, Blockchain Technology, 3D Printing/ Additive Manufacturing, Robotics Process Automation.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations

**KUMARI VIDYAVATI ANAND D.A.V. COLLEGE FOR WOMEN,
KARNAL**

**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna

Class –B.A I

Subject – Basic IT Tools

Paper – B23-SEC-103

4th Week 18 Aug - 23 Aug	Introduction to Computer: Computer and Latest IT gadgets,
24 Aug, 2025	Sunday
5th Week 25 Aug - 30 Aug	Evolution of Computers & its applications, Basics of Hardware and Software,
31 Aug, 2025	Sunday

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**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna

Class –B.A I

Subject – Basic IT Tools

Paper – B23-SEC-103

September, 2025 1st Week 1 Sept – 6 Sept	Application Software, Systems Software, Utility Software. Central Processing Unit, Input devices, Output devices, Computer Memory & storage, Mobile Apps.
7 Sept , 2025	Sunday
2nd Week 8 Sept – 13 Sept	Introduction to Operating System, Functions of the Operating system, Operating Systems for Desktop and Laptop
14 Sept , 2025	Sunday
3rd Week 15 Sept – 20 Sept	Operating Systems for Mobile Phone and Tablets, User Interface for Desktop and Laptop, Task Bar, Icons & shortcuts, Running an Application
21 Sept, 2025 22 Sept, 2025 23 Sept, 2025	Sunday Maharaja Agrasen Jayanti Shaheedi Divas/Haryana War Heroes' Martyrdom Day
4th Week 24 Sept – 27 Sept	Operating System Simple Setting, Changing System Date and Time
28 Sept, 2025	Sunday
5th Week 29 Sept – 30 Sept, 2025	Changing Display Properties, To Add or Remove Program and Features, Adding, Removing & Sharing Printers, File and Folder Management.

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Lesson Plan for the Odd Semester (July to November, 2025)

Name of the Teacher –Ms. Tamanna

Class –B.A I

Subject – Basic IT Tools

Paper – B23-SEC-103

October, 2025 1 st Week 1 Oct – 4 Oct	Introduction to Internet and World Wide Web, Basic of Computer Networks, Local Area Network (LAN), Wide Area Network (WAN), Network Topology, Internet, Applications of Internet, Website Address and URL,
2 Oct, 2025 5 Oct, 2025	Mahatma Gandhi Jayanti/Dussehra Sunday
2 nd Week 6 Oct - 11 Oct	Popular Web Browsers (Internet Explorer/Edge, Chrome, Mozilla Firefox (Opera etc.), Popular Search Engines, Searching on the Internet.
7 Oct, 2025 12 Oct, 2025	Maharishi Valmiki Jayanti/Maharaja Ajmidh Jayanti Sunday
3 rd Week 13 Oct - 18 Oct	E-mail: Using E-mails, Opening Email account, Mailbox: Inbox and Outbox,
19 Oct – 26 Oct	Vacations (Diwali)
5 th Week 27 Oct- 31 Oct	Creating and Sending a new E-mail, replying to an E-mail message

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**Lesson Plan for the Odd Semester
(July to November, 2025)**

Name of the Teacher –Ms. Tamanna

Class –B.A I

Subject – Basic IT Tools

Paper – B23-SEC-103

November, 2025 1st Week 1 Nov,2025 2 Nov, 2025	Haryana Day Sunday
2nd Week 3 Nov - 8 Nov	Sessional Exams
5 Nov, 2025 9 Nov, 2025	Guru Nanak Dev Jayanti Sunday
3rd Week 10 Nov - 15 Nov	Attaching files with email, Email Signature. Social Networking: Facebook. Twitter, LinkedIn, Instagram.
16 Nov, 2025	Sunday
4th Week 17 Nov - 22 Nov	Instant Messaging (WhatsApp, Facebook Messenger(Telegram), Introduction to Blogs, Digital Locker.
23 Nov, 2025	Sunday
5th Week 24 November,2025 Onwards	University Examinations