KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – SAKSHI ANEJA
Class- BCA-III
Subject- OPERATING SYSTEM-II
Paper- BCA-362

February, 2023 **1st Week** **1 Feb - 4 Feb**	Process Synchronization: The Critical Section Problem – Single Process/Two Process Solutions;
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2nd Week **6 Feb - 11 Feb**	Semaphores – Types, Implementation, Deadlocks and Starvation; Classical
12 Feb, 2023	**Sunday**
3rd Week **13 Feb - 17 Feb**	Problems of Synchronization – The Bounded Buffer Problem, The Readers and Writers Problem, The Dining-Philosophers Problem, Critical Regions, Monitors
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4th Week **20 Feb - 25 Feb**	Directory Structure: Single Level, Two Level, Tree Structures, Acyclic Graph,
26 Feb, 2023	**Sunday**
5th Week **27 Feb - 28 Feb**	General Graph; Directory Implementation, Recovery
March, 2023 **1st Week** **1 March - 4 March**	Secondary Storage Structure: Disk Structure, Disk Scheduling: FCFS, SSTF, SCAN, C-SCAN,
2nd Week **5 March -** **12 March, 2023**	**Holi Break**
3rd Week **13 March -** **18 March**	LOOK; Selection of Disk Scheduling Algorithm; Disk Management; Swap Space Management
19 March, 2023	**Sunday**
4th Week **20 March -** **25 March**	Network Operating Systems: Remote Login, Remote File Transfer; Distributed Operating System: Data Migration,
23 March, 2023	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March -** **31 March**	Computation Migration, Process Migration

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Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – SAKSHI ANEJA
Class- BCA-III
Subject- OPERATING SYSTEM-II
Paper- BCA-362

April, 2023 **1st Week** **1 April, 2023**	Linux: Introduction, Features, Architecture, Distributions, Accessing Linux System, Login/Logout/Shutting Down, Comparison of Linux with other Operating Systems
2 April, 2023	**Sunday**
2nd Week **3 April - 8 April**	Commands in Linux: General-Purpose Commands, File Oriented Commands, Directory Oriented Commands, Communication Oriented Commands, Process Oriented Commands, Redirection of Input and Output, Pipes
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **10-15 April 2023**	Linux File System: Types of Files in Linux, File Attributes, Structure of File System, i-node, File Permission,
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **24-29 April,2023**	File System Components, Standard File System, File System Types, Disk Related Commands Processes in Linux: Introduction, Job Control in Linux using at, batch, corn & time commands
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May - 6 May**	The vi editor: Introduction, Modes of vi Editor, Command in vi Editor Shell Programming: Introduction, Shell Variables, Shell Keywords, Operators, Assigning Values to the Variables, I/O in Shell,
7 May, 2023	**Sunday**
2nd Week **8 May - 13 May**	Control Structures, Creating & Executing Shell Programs in Linux. Previous Years question papers discussed
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – SAKSHI ANEJA
Class- M.Sc.-I
Subject- LINUX & SHELL PROGRAMMIING
Paper- MS-15-22

2nd Week **7 Feb - 11 Feb**	Introduction to Unix/Linux: Evolution of Unix/Linux, Unix/Linux distributions, Linux/Unix operating system,
12 Feb, 2023	**Sunday**
3rd Week **13 Feb - 17 Feb**	Linux/Unix architecture, Features of Linux/Unix, Interfacing with Unix/Linux system. Commands in Unix/Linux: General-Purpose commands,
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4th Week **20 Feb - 25 Feb**	File oriented commands, directory oriented commands,
26 Feb, 2023	**Sunday**
5th Week **27 Feb - 28 Feb**	Communication-oriented commands, process oriented commands and other commonly used commands.
March, 2023 **1st Week** **1 March - 4 March**	Regular expressions & Filters in Linux: Regular expressions and their use, Simple filters viz. more, wc, diff,
2nd Week **5 March -** **12 March, 2023**	**Holi Break**
3rd Week **13 March -** **18 March**	sort, uniq, grep, sed, etc. Linux/Unix file system: Linux/Unix files, i-nodes and structure and file system,
19 March, 2023	**Sunday**
4th Week **20 March -** **25 March**	file system components, standard file system, file system types, file system mounting and unmounting.
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March -** **31 March**	Processes in Linux : starting and stopping processes

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – SAKSHI ANEJA
Class- M.Sc.-I
Subject- LINUX & SHELL PROGRAMMIING
Paper- MS-15-22

April, 2023 **1ˢᵗ Week** **1 April, 2023**	job control - at, batch, cron, time, Signal handling.
2 April, 2023	**Sunday**
2ⁿᵈ Week **3 April - 8 April**	System Calls: creat, open, close, read, write, iseek, link, unlink, stat, fstat, umask, chmod, exec, fork, wait,system.
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3ʳᵈ Week **10 April -** **15 April**	Basic system administration in Linux/Unix.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4ᵗʰ Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5ᵗʰ Week **24 April -** **29 April**	Shell Programming: vi editor, shell variables, I/O in shell,
30 April, 2023	**Sunday**
May, 2023 **1ˢᵗ Week** **1 May - 6 May**	control structures, loops, subprograms, command line programming,
7 May, 2023	**Sunday**
2ⁿᵈ Week **8 May - 13 May**	Creating shell scripts. Previous Years question papers discussed
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – NEHA SHARMA
Class- BCA-II
Subject- ADVANCED DATA STRUCTURES
Paper- BCA-241

February, 2023 **1ˢᵗ Week** **1 Feb - 4 Feb**	Tree: Introduction, Definition, Representing Binary tree in memory, Traversing binary trees,
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2ⁿᵈ Week **6 Feb - 11 Feb**	Traversal algorithms using stacks(Preorder, Inorder, Postorder),
12 Feb, 2023	**Sunday**
3ʳᵈ Week **13 Feb - 17 Feb**	Introduction to Binary search trees , Searching, Insertion and
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4ᵗʰ Week **20 Feb - 25 Feb**	Deletion in a Binary search tree, (having 0 child,1 child and 2 children)
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb - 28 Feb**	Huffman's algorithm, General trees. Graph: Introduction, Graph theory terminology, Sequential and linked representation of graphs,
March, 2023 **1ˢᵗ Week** **1 March - 4 March**	operations on graphs, traversal algorithms in graphs and their implementation, Warshall's algorithm for shortest path
2ⁿᵈ Week **5 March -** **12 March, 2023**	**Holi Break**
3ʳᵈ Week **13 March -** **18 March**	Dijkstra algorithm for shortest path , revision of Unit-1 & Unit-2
19 March, 2023	**Sunday**
4ᵗʰ Week **20 March -** **25 March**	Sorting: Internal & external sorting, Radix sort, Quick sort, Heap sort,
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat** **Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March -** **31 March**	Merge sort, Tournament sort, Comparison of various sorting and searching algorithms on the basis of their complexity.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – NEHA SHARMA
Class- BCA-II
Subject- ADVANCED DATA STRUCTURES
Paper- BCA-241

April, 2023 **1st Week** **1 April, 2023**	Files: Introduction Attributes of a file,
2 April, 2023	**Sunday**
2nd Week **3 April - 8 April**	Classification of files, File operations, Comparison of various types of files,
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **10-15 April 2023**	File organization: Sequential, Indexed-sequential, Random-access file.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **24-29 April,2023**	Hashing: Introduction, Collision resolution.
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May - 6 May**	Revision & problems taken From Unit-1 & 2 Previous Years question papers discussed
7 May, 2023	**Sunday**
2nd Week **8 May - 13 May**	Revision & problems taken From Unit-3 & 4 Previous Years question papers discussed
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – NEHA SHARMA
Class- BCA-II
Subject- E-Commerce
Paper- BCA-243

February, 2023 **1st Week** **1 Feb - 4 Feb**	Introduction to E-Commerce:-Business operations; E-commerce practices vs. traditional business practices
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2nd Week **6 Feb - 11 Feb**	concepts of b2b, b2c,c2c,b2g,g2h,g2c; Features of E-Commerce, Types of Ecommerce Systems, Elements of E-Commerce,
12 Feb, 2023	**Sunday**
3rd Week **13 Feb - 17 Feb**	Principles of E-Commerce, Benefits and Limitations of E-Commerce. Management Issues relating to e-commerce.
18 Feb, 2023	**Maha Shivaratri**
19 Feb, 2023	**Sunday**
4th Week **20 Feb - 25 Feb**	Operations of E-commerce: Credit card transaction; Secure Hypertext Transfer Protocol (SHTP);
26 Feb, 2023	**Sunday**
5th Week **27 Feb - 28 Feb**	Electronic payment systems; Secure electronic transaction (SET); SET`s encryption; Process; Cyber cash; Smart cards; Indian payment models.
March, 2023 **1st Week** **1 March - 4 March**	Applications in governance: EDI in governance; E-government; E-Governance applications of Internet;
2nd Week **5 March - 12 March, 2023**	**Holi Break**
3rd Week **13 March - 18 March**	Concept of government –to- business, business-to-government and citizen-to-government; E-governance models; Private sector interface in E-governance.
19 March, 2023	**Sunday**
4th Week **20 March - 25 March**	Applications in B2C: Consumers shopping procedure on the Internet; Impact on disinter mediation and re-intermediation; Global market; Strategy of traditional departmental stores.
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March - 31 March**	Products in b2c model; success factors of e-brokers; Broker-based services on-line;

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Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – NEHA SHARMA
Class- BCA-II
Subject- E-Commerce
Paper- BCA-243

April, 2023 **1st Week** **1 April, 2023**	Online travel tourism services; Benefits and impact of e-commerce on travel industry; Deal estate market; online stock trading and its benefits;
2 April, 2023	**Sunday**
2nd Week **3 April - 8 April**	Online banking and its benefits; Online financial services and their future; E-auctions – benefits, implementation and impact
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **10 April -** **15 April**	Applications in B2B: Key technologies for b2b; architectural models of b2b,characteristics of the supplier –oriented marketplace,
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **24 April -** **29 April**	buyer-oriented marketplace and intermediary-oriented marketplace; Just In Time delivery in b2b; Internet-based EDI from traditional EDI;
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May - 6 May**	Marketing Issues in b2b.Emerging Business models: Retail model; Media model; advisory model, made-to-order manufacturing model; Do-it- yourself model;
7 May, 2023	**Sunday**
2nd Week **8 May - 13 May**	Information service model; Emerging hybrid models; Emerging models in India, Internet & E-Commerce scenario in India; Internet security Issues; Legal aspects of E-commerce
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

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Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – NEHA SHARMA
Class- PGDCA
Subject- DATA STRUCTURES
Paper- CS-DE-13

4th Week 22 Nov - 26 Nov	Introduction to Data Structures: Elementary data organization,
27 Nov, 2022	**Sunday**
5th Week 28 Nov – 3 Dec	Data structure operations, Algorithm complexity time-space tradeoff, Classification of data structures
4 Dec, 2022	**Sunday**
2nd Week 5 Dec - 10 Dec	String Processing: Storing strings, String operations, Pattern matching algorithms.
11 Dec, 2022	**Sunday**
3rd Week 12-17 Dec,2022	Arrays: Linear arrays, Operations on arrays, , Storage of arrays
18 Dec, 2022	**Sunday**
4th Week 19-24 Dec,2022	Multidimensional arrays, Matrices, Sparse Matrices
25 Dec,2022	**Christmas day**
5th Week 26-31 Dec,2022	Stacks, Memory representation of stack, Operations on stacks
29 Dec,2022	**Guru Gobind Singh Jayanti**
1 Jan, 2023	**Sunday**
1st Week 2-7 Jan,2023	Applications of Stack- Recursion, Polish Notation, Quicksort, Queues, Memory representation of Queues
8 Jan, 2023	**Sunday**
2nd Week 9-14 Jan,2023	Operations on queues, Dequeues, Priority Queues, Applications of Queues
15 Jan, 2023	**Sunday**
3rd Week 16-21 Jan,2023	Linked Lists: Representation of linked list in memory, Traversal, Searching,
22 Jan, 2023	**Sunday**
26 Jan, 2023	**Republic Day**
4th Week 23-28 Jan,2023	Insertion at (beginning , location, at end), Deletion at (beginning , location, at end)
5th Week 30-31 Jan,2023	Linked representation of Stacks & Queues, Sorted Linked List

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Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – NEHA SHARMA
Class- PGDCA
Subject- DATA STRUCTURES
Paper- CS-DE-13

February, 2023 **1st Week** **1 Feb - 4 Feb**	Header List, Two – Way List
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2nd Week **6 Feb - 11 Feb**	Trees: Binary Trees, Representation of binary trees in memory,
12 Feb, 2023	**Sunday**
3rd Week **13 Feb - 17 Feb**	Threaded Binary Trees, Balanced Tree, Different tree traversal algorithms using recursion
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4th Week **20 Feb - 25 Feb**	Different tree traversal algorithms using Stack,
26 Feb, 2023	**Sunday**
5th Week **27 Feb - 28 Feb**	Problems taken from Students
March, 2023 **1st Week** **1 March - 4 March**	Binary Search Tree: Searching, Insertion,
2nd Week **5 March - 12 March, 2023**	**Holi Break**
3rd Week **13 March - 18 March**	deletion in a Binary search tree, (node without children, node with 1 child, node with 2 children)
19 March, 2023	**Sunday**
4th Week **20 March - 25 March**	Heap Sort-Creation of Heap,Insertion,Deletion
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March - 31 March**	Graph-Representation of Graphs and Applications: Adjacency Matrix,

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Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – NEHA SHARMA
Class- PGDCA
Subject- DATA STRUCTURES
Paper- CS-DE-13

April, 2023 **1ˢᵗ Week** **1 April, 2023**	Path Matrix, Warshall's Algorithm
2 April, 2023	**Sunday**
2ⁿᵈ Week **3 April - 8 April**	Linked Representation of a Graph, Traversing a Graph;
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3ʳᵈ Week **10 April -** **15 April**	Sorting and Searching:-Linear Search, Binary Search,
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4ᵗʰ Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5ᵗʰ Week **24 April -** **29 April**	Sorting and Searching: Radix Sort, Merge Sort
30 April, 2023	**Sunday**
May, 2023 **1ˢᵗ Week** **1 May - 6 May**	Sorting and Searching: :-Insertion Sort, Selection Sort, Bubble Sort.
7 May, 2023	**Sunday**
2ⁿᵈ Week **8 May - 13 May**	Previous year Question paper discussed
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

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Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – HARBINDER KAUR
Class- BCA-II
Subject- ADVANCED PROGRAMMING USING C++
Paper- BCA-242

February, 2023 **1ˢᵗ Week** **1 Feb - 4 Feb**	Dynamic Polymorphism: Function Overriding,
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2ⁿᵈ Week **6 Feb - 11 Feb**	Virtual Function and its Need, Pure Virtual Function, Abstract Class,
12 Feb, 2023	**Sunday**
3ʳᵈ Week **13 Feb - 17 Feb**	Virtual Derivation, Virtual Destructor.
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4ᵗʰ Week **20 Feb - 25 Feb**	Type Conversion: Basic Type Conversion,
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb - 28 Feb**	Conversion between objects and basic types,
March, 2023 **1ˢᵗ Week** **1 March - 4 March**	Conversion between objects of different classes,
2ⁿᵈ Week **5 March -** **12 March, 2023**	**Holi Break**
3ʳᵈ Week **13 March -** **18 March**	Inheritance: Rules of Derivations – Private
19 March, 2023	**Sunday**
4ᵗʰ Week **20 March -** **25 March**	Rules of Derivations –Protected and Public Derivations.
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March -** **31 March**	Different Forms of Inheritance – Single, Multiple

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Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – HARBINDER KAUR
Class- BCA-II
Subject- ADVANCED PROGRAMMING USING C++
Paper- BCA-242

April, 2023 **1st Week** **1 April, 2023**	Different Forms of Inheritance –Multilevel, Hierarchical and Multipath
2 April, 2023	**Sunday**
2nd Week **3 April - 8 April**	Roles of Constructors and Destructors in Inheritance
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **10 April -** **15 April**	Genericity in C++: Templates in C++, Function templates
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **24 April -** **29 April**	Class templates in C++, Exception Handling in C++: try, throw and catch,
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May - 6 May**	Files I/O in C++: Class Hierarchy for Files I/O,
7 May, 2023	**Sunday**
2nd Week **8 May - 13 May**	Text versus Binary Files, Opening and Closing Files, File Pointers, Operation on files.
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – HARBINDER KAUR
Class- M.Sc-I
Subject- JAVA PROGRAMMING
Paper- MS-15-21

2nd Week **7 Feb - 11 Feb**	Unit-1:- Introduction to Java: Importance and features of Java, Java virtual machine,
12 Feb, 2023	**Sunday**
3rd Week **13 Feb - 17 Feb**	Byte code, JDK, Keywords, constants, variables and Data Types, Operators and Expressions,
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4th Week **20 Feb - 25 Feb**	Decision Making, Branching and Looping, jump statements: break, continue, return. Introducing classes, objects and methods: defining a class, adding variables and methods,
26 Feb, 2023	**Sunday**
5th Week **27 Feb - 28 Feb**	creating objects, constructors, class inheritance. Arrays and String: Creating an array, one and two dimensional arrays,
March, 2023 **1st Week** **1 March - 4 March**	string array and methods Unit-II Packages and interfaces, Exception Handling: Fundamentals exception types, uncaught exceptions, throw exception
2nd Week **5 March -** **12 March, 2023**	**Holi Break**
3rd Week **13 March -** **18 March**	built in exception, creating your own exceptions, Multithreaded Programming: Fundamentals, Java thread model: synchronization, messaging, thread classes,
19 March, 2023	**Sunday**
4th Week **20 March -** **25 March**	Runnable interface, inter thread Communication, suspending, resuming and stopping threads
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat** **Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March -** **31 March**	Unit-III I/O Streams: String and String Buffer classes, Wrapper classes: Basic Types

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Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – HARBINDER KAUR
Class- M.Sc-I
Subject- JAVA PROGRAMMING
Paper- MS-15-21

April, 2023 **1ˢᵗ Week** **1 April, 2023**	Basics types, using super, Multilevel hierarchy abstract and final classes.
2 April, 2023	**Sunday**
2ⁿᵈ Week **3 April - 8 April**	Input/Output Programming: Basics, Streams, Byte and Character Stream,
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3ʳᵈ Week **10 April -** **15 April**	Predefined streams, Reading and writing from console and files.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4ᵗʰ Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5ᵗʰ Week **24 April -** **29 April**	Unit-IV Event Handling: Different Mechanism, the Delegation Event Model, Event Classes, Event Listener Interfaces,
30 April, 2023	**Sunday**
May, 2023 **1ˢᵗ Week** **1 May - 6 May**	Adapter and Inner Classes, Working with windows, Graphics and Text, using AWT controls, Layout managers
7 May, 2023	**Sunday**
2ⁿᵈ Week **8 May - 13 May**	Menus, handling Image, animation, sound and video, Java Applet. Beans: Introduction to Java Beans and Swings.
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

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Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- M.Sc. II CS
Subject- Computers Graphics
Paper- MS-15-42

February, 2023 **1ˢᵗ Week** **1 Feb - 4 Feb**	Introduction to Computer Graphics and its applications, Components and working of Interactive Graphics.
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2ⁿᵈ Week **6 Feb - 11 Feb**	Video Display Devices: Raster scan and Random Scan displays, Display Processors; Resolution, Aspect Ratio, Refresh CRT, interlacing; Color CRT monitors
12 Feb, 2023	**Sunday**
3ʳᵈ Week **13 Feb - 17 Feb**	LookUp tables, Plasma Panel and LCD monitors, Interactive Input and Output Devices: keyboard, mouse, trackball, joystick, light pen, digitizers.
18 Feb, 2023	**Maha Shivaratri**
19 Feb, 2023	**Sunday**
4ᵗʰ Week **20 Feb - 25 Feb**	Touch Panels; Voice systems; printers, plotters.
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb - 28 Feb**	Graphics Software; Coordinate Representations.
March, 2023 **1ˢᵗ Week** **1 March - 4 March**	Drawing Geometry: Symmetrical and Simple DDA line drawing algorithm, Bresenham's line Algorithm; loading frame buffer.
2ⁿᵈ Week **5 March -** **12 March, 2023**	**Holi Break**
3ʳᵈ Week **13 March -** **18 March**	Symmetrical DDA for drawing circle, Polynomial method for circle drawing; circle drawing using polar coordinates, Bresenham's circle drawing.
19 March, 2023	**Sunday**
4ᵗʰ Week **20 March -** **25 March**	Generation of ellipse; parametric representation of cubic curves, drawing Bezier curves.

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Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- M.Sc. II CS
Subject- Computers Graphics
Paper- MS-15-42

23 March, 2023	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March -** **31 March**	Filled-Area Primitives: Flood fill algorithm, Boundary fill algorithm, Scan-line polygon fill algorithm.
April, 2023 **1st Week** **1 April, 2023**	2-D Transformations: translation, rotation, scaling, matrix representations and homogeneous coordinates.
2 April, 2023	**Sunday**
2nd Week **3 April - 8 April**	Composite transformations, general pivot point rotation, general fixed point scaling, Shearing; Reflection ; Reflection about an arbitrary line;
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **10 April -** **15 April**	2-D Viewing: window, viewport; 2-D viewing transformation, zooming, panning; Clipping operations: point and line clipping, Cohen-Sutherland line clipping, mid-point subdivision line clipping.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **24 April -** **29 April**	Liang-Barsky line clipping, Sutherland-Hodgman polygon clipping; Weiler-Atherton polygon Clipping Pointing and positioning techniques; rubber band technique; dragging.
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- M.Sc. II CS
Subject- Computers Graphics
Paper- MS-15-42

May, 2023 **1st Week** **1 May - 6 May**	3-D Graphics: 3-D modeling of objects, 3D transformation matrices for translation, scaling and rotation, parallel projection: Orthographic and oblique projection; perspective projection; Introduction to Animation, Tweening, Morphing, Fractals.
7 May, 2023	**Sunday**
2nd Week **8 May - 13 May**	Hidden surface removal: Z-buffer, depth-sorting, area subdivision, BSP-Tree method; Ray casting; Shading: Modelling light intensities, Gouraud shading, Phong shading.
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- BCA II
Subject- Relational Database Management System
Paper- BCA – 244

February, 2023 **1st Week** **1 Feb - 4 Feb**	Relational Model Concepts, Codd's Rules for Relational Model.
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2nd Week **6 Feb - 11 Feb**	Relational Algebra:-Selection and Projection, Set Operation, Renaming
12 Feb, 2023	**Sunday**
3rd Week **13 Feb - 17 Feb**	Join and Division, Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus.
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4th Week **20 Feb - 25 Feb**	Functional Dependencies and Normalization:-Purpose, Data Redundancy and Update Anomalies.
26 Feb, 2023	**Sunday**
5th Week **27 Feb - 28 Feb**	Functional Dependencies:-Full Functional Dependencies and Transitive Functional Dependencies
March, 2023 **1st Week** **1 March - 4 March**	Characteristics of Functional Dependencies, Decomposition.
2nd Week **5 March -** **12 March, 2023**	**Holi Break**
3rd Week **13 March -** **18 March**	Normal Forms (1NF, 2NF, 3NF & BCNF).
19 March, 2023	**Sunday**
4th Week **20 March -** **25 March**	SQL: Data Definition and data types, SQL Operators, Specifying Constraints in SQL.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- BCA II
Subject- Relational Database Management System
Paper- BCA – 244

23 March, 2023	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March - 31 March**	Basic DDL, DML and DCL commands in SQL, Simple Queries.
April, 2023 **1ˢᵗ Week** **1 April, 2023**	Nested Queries
2 April, 2023	**Sunday**
2ⁿᵈ Week **3 April - 8 April**	Tables, Views, Indexes, Aggregate Functions, Clauses.
4 April, 2023	**Mahavir Jayanti**
9 April, 2023	**Sunday**
3ʳᵈ Week **10 April - 15 April**	PL/SQL architecture, PL/SQL and SQL*Plus, PL/SQL Basics.
14 April, 2023	**Vaisakhi/Dr. B.R. Ambedkar Jayanti**
16 April, 2023	**Sunday**
4ᵗʰ Week **17 April - 21 April**	**Sessional Exams**
22 April, 2023	**ld-Ul-Fitr/Parshuram Jayanti**
23 April, 2023	**Sunday**
5ᵗʰ Week **24 April - 29 April**	Advantages of PL/SQL, The Generic PL/SQL Block: PL/SQL Execution Environment.
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- BCA II
Subject- Relational Database Management System
Paper- BCA – 244

May, 2023 **1st Week** **1 May - 6 May**	PL/SQL Character set and Data Types, Control Structure in PL/SQL.
7 May, 2023	**Sunday**
2nd Week **8 May - 13 May**	Cursors in PL/SQL, Triggers in PL/SQL, Programming using PL/SQL.
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- BCA III
Subject- Advanced Programming with Visual Basic
Paper- BCA-365

February, 2023 **1ˢᵗ Week** **1 Feb - 4 Feb**	Collections: Adding, Removing, Counting, Returning Items in a Collection, Processing a Collection;
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2ⁿᵈ Week **6 Feb - 11 Feb**	Working with Forms: Form Properties, Creating, Adding, Removing Forms in Project, Adding Multiple Forms, Managing Forms at Run Time
12 Feb, 2023	**Sunday**
3ʳᵈ Week **13 Feb - 17 Feb**	Hiding & Showing Forms, Load & Unload Statements, Drag and Drop Operation, Activate & Deactivate events, Form-load event
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4ᵗʰ Week **20 Feb - 25 Feb**	Example using Forms, Programs in VB using Forms
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb - 28 Feb**	Working with Menu: Menu Designing in VB, Adding a Menu to a Form
March, 2023 **1ˢᵗ Week** **1 March - 4 March**	Modifying and Deleting Menu Items, Adding Access Characters, Adding Shortcut Keys, Manipulating Menus using Common Dialog Box, Attaching Code to Events.
2ⁿᵈ Week **5 March -** **12 March, 2023**	**Holi Break**
3ʳᵈ Week **13 March -** **18 March**	Creating Submenus, Dynamic Menu Appearance Advanced Controls in VB: Scroll Bar, Slider Control, Tree View, List View.
19 March, 2023	**Sunday**
4ᵗʰ Week **20 March -** **25 March**	Rich Text Box Control, Toolbar, Status Bar, Progress Bar, Cool bar, Image List, Program Development in VB using Menus and Advance Controls

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- BCA III
Subject- Advanced Programming with Visual Basic
Paper- BCA-365

23 March, 2023	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March -** **31 March**	File Handling & File Controls: Sequential & Random files, Opening and Closing Data Files, Viewing the Data in a File, Performing Operations on a File,
April, 2023 **1st Week** **1 April, 2023**	Creating a Sequential Data File, Writing Data to a Sequential File, Reading the Data in a Sequential File
2 April, 2023	**Sunday**
2nd Week **3 April - 8 April**	Finding the End of a Data File, Locating a File, Reading and Writing a Random File (get, put, LOF, seek).
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **10 April -** **15 April**	Working with Graphics: Using Paint, Line, Circle, Manipulating Graphics
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -** **21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **24 April -** **29 April**	Program Development in VB using Files and Graphics
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Divya Vij
Class- BCA III
Subject- Advanced Programming with Visual Basic
Paper- BCA-365

May, 2023 **1ˢᵗ Week** **1 May - 6 May**	Accessing Databases: Data Controls, Data-Bound Controls, DAO, RDO, ADO, Creating the Database, Setting Properties, Applying Operations on Database.
7 May, 2023	**Sunday**
2ⁿᵈ Week **8 May - 13 May**	Viewing the Database, Updating the Database (adding, deleting records) Program Development in VB using Database and Advance Controls
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- BCA III (Semester 6th)
Subject-Computers
Paper- BCA-Internet Technologies

February,2023 **1st Week** **1Feb-4 Feb**	Internet: Introduction; History; Internet Services; TCP/IP: Architecture, Layers,
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2nd Week **6Feb -11Feb**	Protocols; TCP/IPmodel versus OSI Model; World Wide Web (WWW) - The Client Side, The Server Side, Creating and Searching Information on the Web, Popular Search Engines, URL, HTTP,
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Web Browsers, Chat & Bulletin Board, USENET & NNTP (Network News Transfer Protocol); Internet vs. Intranet;
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	TCP, UDP and IP Protocols, Port Numbers; Format of TCP, UDP and IP; IPv4 addressing; The need for IPv6; IPv6 addressing and packet format; TCP Services; TCP Connection Management;
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Remote Procedure Call; IP Address Resolution- DNS; Domain Name Space; DNS Mapping;

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Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- BCA III (Semester 6th)
Subject-Computers
Paper- BCA-Internet Technologies

March, 2023 **1stWeek** **1March -4 March**	Recursive andIterative Resolution; Mapping Internet Addresses to Physical Addresses: ARP, RARP, DHCP; ICMP;IGMP;
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March**-**18 March**	Application Layer: Electronic Mail: Architecture; Protocols - SMTP, MIME, POP, IMAP; Web Based Mail
19 March,2023	**Sunday**
4thWeek **20March**-**25 March**	File Access and Transfer: FTP, Anonymous
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March**- **31 March**	FTP, TFTP, NFS; Remote Login using TELNET;

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- BCA III (Semester 6th)
Subject-Computers
Paper- BCA-Internet Technologies

April, 2023 **1st Week** **1 April, 2023**	Voice and Video over IP: RTP, RTCP, IP Telephony and Signaling, RSVP;
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Routing in Internet: RIP, OSPF, BGP ; Internet Multicasting;
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -** **15April**	Mobile IP; Private Network
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29** **April**	Interconnection: Network Address Translation (NAT), Virtual Private Network (VPN);
30 April, 2023	**Sunday**

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Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- BCA III (Semester 6th)
Subject-Computers
Paper- BCA-Internet Technologies

May, 2023 **1st Week** **1 May -6 May**	InternetManagement and SNMP; Internet Security: E-Mail Security; Web Security; Firewall; Introduction to IPSec and SSL
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of all Syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.Sc. I + B.A. I Computer Science (Semester 2nd)
Subject-Computers
Paper-Paper-I(Programming in C)

February,2023 1st Week 1Feb	Overview of C: History & Importance of C, Structure of a C Program.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek 6Feb -8Feb	Elements of C: C character set, identifiers and keywords, Data types, Constants and Variables
12Feb, 2023	**Sunday**
3rd Week 13Feb -15 Feb	Assignment statement, Symbolic constant.
18 Feb, 2023 19 Feb,2023	**MahaShivaratri** **Sunday**
4th Week 20Feb -22 Feb	Input/output: Unformatted & formatted I/O function, Input functions (scanf(), getch(),getche(), getchar(), gets()), output functions (printf(), putch(), putchar(), puts()).
26 Feb, 2023	**Sunday**
5th Week 27 Feb -28 Feb	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment,

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.Sc. I + B.A. I Computer Science (Semester 2nd)
Subject-Computers
Paper-Paper-I(Programming in C)

March, 2023 **1stWeek** **1March**	conditional operators and special operators. Arithmetic expressions, evaluation of arithmetic expression
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-15 March**	type casting and conversion, operator hierarchy & associativity. Decision making & branching: Decision making with IF statement, IF-ELSE statement,
19 March,2023	**Sunday**
4thWeek **20March-22 March**	Nested IF statement, ELSE-IF ladder, switch statement, goto statement.
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 29 March**	Decision making & looping: For, while, and do-while loop, jumps in loops, break, continue statement.

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Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.Sc. I + B.A. I Computer Science (Semester 2nd)
Subject-Computers
Paper-Paper-I(Programming in C)

April, 2023	
2 April, 2023	**Sunday**
2nd Week 3 April -5 April	Functions: Definition, prototype, passing parameters, recursion
4 April, 2023 9 April, 2023	**MahavirJayanti** **Sunday**
3rd Week 10April -12 April	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.
14 April, 2023 16 April, 2023	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek 17 April -21 April	**Sessional Exams**
22 April, 2023 23 April, 2023	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek 24 April -26 April	Arrays: Definition, types, initialization,
30 April, 2023	**Sunday**

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Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.Sc. I + B.A. I Computer Science(Semester 2nd)
Subject-Computers
Paper-Paper-I(Programming in C)

May, 2023 **1st Week** **1 May -3 May**	processing an array, Structure and Union.
7 May, 2023	**Sunday**
2nd Week **8 May -10 May**	Revision of all Syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

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Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.Sc.I +B.A. I (Computer Science) (Semester 2nd)
Subject-Computers
Paper- II(Logical Organisation of Computers)

February,2023 **1st Week** **2Feb-4 Feb**	Information Representation: Number Systems, Binary Arithmetic,
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **9Feb -11Feb**	Fixed-point and Floatingpoint representation of numbers,
12Feb, 2023	**Sunday**
3rd Week **16Feb -18Feb**	BCD Codes, Error detecting and correcting codes,
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **23Feb -25 Feb**	Character Representation – ASCII, EBCDIC, Binary Logic: Boolean Algebra, Boolean Theorems,
26 Feb, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.Sc.I +B.A. I (Computer Science) (Semester 2nd)
Subject-Computers
Paper- II(Logical Organisation of Computers)

March, 2023 **1stWeek** **2March -4 March**	Boolean Functions and Truth Tables,
2nd Week **5 March -12 March, 2023**	**Holi Break**
2nd Week **9 March-11March**	Canonical and Standard forms of Boolean functions
3rdWeek **16 March-18March**	Simplification of Boolean Functions
19 March,2023	**Sunday**
4thWeek **23March-25 March**	Venn Diagram, Karnaugh Maps.
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **30 March- 31 March**	Digital Logic: Basic Gates – AND, OR, NOT, Universal Gates – NAND, NOR,

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Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.Sc.I +B.A. I (Computer Science) (Semester 2nd)
Subject-Computers
Paper- II(Logical Organisation of Computers)

April, 2023 **1st Week** **1 April, 2023**	Other Gates – XOR, XNOR etc. Combinational Circuits: Half-Adder, Full-Adder,
2 April, 2023	**Sunday**
2nd Week **6 April -8 April**	Half-Subtractor, Full-Subtractor, Encoders, Decoders, Multiplexers, Demultiplexers,Comparators, Code Converters.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **13April -** **15April**	Sequential Logic: Characteristics, Flip-Flops, Clocked RS, D type, JK, T type and
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **27 April -29 April**	Master-Slave flip-flops. State table, state diagram. Flip-flop
30 April, 2023	**Sunday**

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Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.Sc.I +B.A. I (Computer Science) (Semester 2nd)
Subject-Computers
Paper- II(Logical Organisation of Computers)

May, 2023 **1st Week** **4 May -6 May**	excitation tables ,Shift registers : serial in parallel out and parallel in parallel out.. Designing counters –Asynchronous and Synchronous Binary Counters, Modulo-N Counters and Up-Down Counters
7 May, 2023	**Sunday**
2nd Week **11 May -13 May**	Revision of all Syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.A. I (Semester 2nd)
Subject-Computers
Paper- Computer Awareness (Level-1)

February,2023 **1st Week** **1Feb-4 Feb**	**Operating System -** Definition & Functions of Operating System, Basics of Popular Operating Systems;
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **6Feb -11Feb**	The User Interface, Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu-selection, managing files and folders,
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	**Control panel** – display properties, add/remove software and hardware,
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Running an Application, Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	**Word Processing:** Introduction to Word Processing, Menus

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Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.A. I (Semester 2nd)
Subject-Computers
Paper- Computer Awareness (Level-1)

March, 2023 **1stWeek** **1March -4 March**	Creating, Editing & Formatting Document, Spell Checking, Printing, Views,
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-18 March**	Tables, Word Art, Mail Merge, Macros.
19 March,2023	**Sunday**
4thWeek **20March-25 March**	**Spread Sheet:** Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus, Manipulation of cells:
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Enter texts numbers and dates, Cell Height and Widths, Copying of cells, Mathematical, Statistical and Financial function, Drawing different types of charts

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Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.A. I (Semester 2nd)
Subject-Computers
Paper- Computer Awareness (Level-1)

April, 2023 **1st Week** **1 April, 2023**	**Presentation Software:** Creating, modifying and enhancing a presentation, Delivering a presentation,
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Using sound, animation and design templates in presentation
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -** **15April**	**Computer Communication:** Internet and its applications, Connecting to internet,
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Surfing the Internet using web browsers, Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address,
30 April, 2023	**Sunday**

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Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- B.A. I (Semester 2ⁿᵈ)
Subject-Computers
Paper- Computer Awareness (Level-1)

May, 2023 **1ˢᵗ Week** **1 May -6 May**	Creating Email Id, Viewing an E-Mail, Sending an E-Mail to a single and multiple users, Sending a file as an attachment.
7 May, 2023	**Sunday**
2ⁿᵈ Week **8 May -13 May**	Revision of all Syllabus
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

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Lesson Plan For The Even Semester
(November to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- PGDCA
Subject-Computers
Paper-CS-DE-14 DATA BASE MANAGEMENT SYSTEMS

4thWeek **22 Nov -26Nov**	Data, Information and Knowledge – Limitations of Manual Data Processing – Advantages of databases
27 Nov,2022	**Sunday**
5thWeek **28Nov –3 Dec**	Basic DBMS Terminology – Role of DBA
4 Dec, 2022	**Sunday**
2ndWeek **5Dec-10Dec**	Data Manager, File Manager and Disk Manager
11 Dec, 2022	**Sunday**
3rdWeek **12-17Dec,2022**	Three Level Architecture of DBMS
18 Dec, 2022	**Sunday**
4thWeek **19-24Dec,2022**	Physical and Logical Data Independence,
25 Dec,2022	**Christmas day**
5thWeek **26-31 Dec,2022**	Data Base languages and Interfaces
29 Dec,2022	**Guru Gobind Singh Jayanti**
1 Jan, 2023	**Sunday**
1st Week **2-7 Jan,2023**	DBMS functions and component modules
8 Jan, 2023	**Sunday**
2nd Week **9-14 Jan,2023**	Entity Relationship Model- Concepts
15 Jan, 2023	**Sunday**
3rd Week **16-21 Jan,2023**	Relationships, Constraints
22 Jan, 2023	**Sunday**
26 Jan, 2023	**Republic Day**

KVA DAV College for Women, Karnal
Lesson Plan For The Even Semester
(November to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- PGDCA
Subject-Computers
Paper-CS-DE-14 DATA BASE MANAGEMENT SYSTEM

4th Week **23-28 Jan,2023**	Keys- Primary, Secondary, Composite& Foreign Key etc.
5th Week **30-31 Jan,2023**	E-R Diagrams
February,2023 **1st Week** **1Feb-4 Feb**	Mapping ER- diagrams to Relational Tables
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **6Feb -11Feb**	Introduction to Data Models
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Case studies: Inventory System
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Payroll System
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Reservation System, Online Book Store etc.

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Lesson Plan For The Even Semester
(November to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- PGDCA
Subject-Computers
Paper-CS-DE-14 DATA BASE MANAGEMENT SYSTEM

March, 2023 **1ˢᵗWeek** **1March -4 March**	Comparison between Hierarchical, Network and Relational models.
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **13 March-18 March**	Relational Algebra- Query Language, Basic Set Operations, Special Relational Operations,
19 March,2023	**Sunday**
4ᵗʰWeek **20March-25 March**	Introduction to SQL: DDL, DML, and DCL Commands, Views& Queries in SQL, Specifying Constraints & Indexes in SQL.
23 March, 2023	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March- 31 March**	Functional Dependencies,

KVA DAV College for Women, Karnal
Lesson Plan For The Even Semester
(November to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- PGDCA
Subject-Computers
Paper-CS-DE-14 DATA BASE MANAGEMENT SYSTEM

April, 2023 **1st Week** **1 April, 2023**	Normalization- Normal forms based on primary keys (1 NF,2 NF)
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	3 NF, & BCNF
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -** **15April**	MS Access: Parts of an Access Window, Tool Bars and Their Icons
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Creating a New Database, Creating a Database through Table Wizard, Creating a New Table, Relationships
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal
Lesson Plan For The Even Semester
(November to May, 2023)

Name of the Teacher – Ms. Mamta Atreja
Class- PGDCA
Subject-Computers
Paper-CS-DE-14 DATA BASE MANAGEMENT SYSTEM

May, 2023 **1st Week** **1 May -6 May**	Creating Table through Design View, Relationship, Query, Forms, Reports, Import/export tables etc.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of all Syllabus
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Advanced Computer Architecture
Paper- MS-15-43
Class- M.Sc. CS 4th Semester

February, 2023 **1st Week** **1 Feb-4 Feb**	Computational Model: Basic computational models, evolution and interpretation of computer architecture
5 Feb, 2023	**Guru Ravidas Jayanti, Sunday**
2nd Week **6 Feb -11 Feb**	Concept of computer architecture as a multilevel hierarchical framework. Classification of parallel architectures, Relationships between programming languages and parallel architectures.
12 Feb, 2023	**Sunday**
3rd Week **13 Feb -17 Feb**	Parallel Processing: Types and levels of parallelism, Instruction Level Parallel (ILP) processors, dependencies between instructions
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Principle and general structure of pipelines, performance measures of pipeline
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Pipelined processing of integer, Boolean, load and store instructions

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Advanced Computer Architecture
Paper- MS-15-43
Class- M.Sc. CS 4th Semester

March, 2023 **1stWeek** **1March -4 March**	MIMD Architectures: Concepts of distributed and shared memory MIMD architectures
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-18 March**	VLIW architecture, Code Scheduling for ILP Processors - Basic block scheduling, loop scheduling, global scheduling
19 March,2023	**Sunday**
4thWeek **20March-25 March**	UMA, NUMA, CCNUMA & COMA models, problems of scalable computers, Direct Interconnection Networks: Linear array, ring, chordal rings, star, tree, 2D mesh, barrel shifter, hypercubes
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Dynamic interconnection networks: single shared buses, comparison of bandwidths of locked, pended & split transaction buses, Arbiter Logics, crossbar, multistage networks – omega, butterfly

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Advanced Computer Architecture
Paper- MS-15-43
Class- M.Sc. CS 4th Semester

April, 2023 1st Week 1 April, 2023	Revision
2 April, 2023	**Sunday**
2nd Week 3 April -8 April	Cache coherence problem, hardware based protocols – snoopy cache protocol, directory schemes, hierarchical cache coherence protocols, software based protocols
4 April, 2023 9 April, 2023	**MahavirJayanti** **Sunday**
3rd Week 10April – 15 April	Superscalar Processors: Emergence of superscalar processors, Tasks of superscalar processing – parallel decoding, superscalar instruction issue, shelving, register renaming
14 April, 2023 16 April, 2023	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week 17 April -21 April	**Sessional Exams**
22 April, 2023 23 April, 2023	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5[th]Week 24 April -29 April	Parallel execution, preserving sequential consistency of instruction execution and exception processing
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Advanced Computer Architecture
Paper- MS-15-43
Class- M.Sc. CS 4th Semester

May, 2023 **1st Week** **1 May -6 May**	Comparison of VLIW & superscalar processors, 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
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of the whole syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Compiler Design
Paper- MS-15-24
Class- M.Sc. CS 2nd Semester

February, 2023 **1st Week** **1 Feb-4 Feb**	Compilers and Translators, Need of Translators, Tools used for compilation, Structure and Phases of Compiler
5 Feb, 2023	**Guru Ravidas Jayanti, Sunday**
2nd Week **6 Feb -11 Feb**	Single-Pass and Multi-Pass Compilers, Bootstrapping, Compiler Construction Tools. Bootstrap compilers, Phases of Compilation process..
12 Feb, 2023	**Sunday**
3rd Week **13 Feb -17 Feb**	Lexical Analysis: Design of Lexical Analyzer, Finite Automata and Regular Expressions
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Lex package on UNIX systems. Process of Lexical Analysis, Recognition of Regular Expressions
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Revision of Unit I

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Compiler Design
Paper- MS-15-24
Class- M.Sc. CS 2nd Semester

March, 2023 **1st Week** **1March -4 March**	Syntax-Directed Translation: Translation Schemes, Implementation of Syntax-Directed Translators, Intermediate code and its need, Postfix Notation, Parse Trees and Syntax Trees
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rd Week **13 March-18 March**	Three-address code and its representations, Boolean Expressions, Flow of Control, Symbol Table: Contents of Symbol Table, Data Structures used for symbol table, Representing scope information.
19 March,2023	**Sunday**
4th Week **20March-25 March**	Run Time Storage Administration: Types of Storage Allocation Schemes, Implementation of Stack Allocation Scheme, Implementation of Block Structured Languages, Storage Allocation in Block Structured Languages, Error Detection and Recovery: Errors, Lexical-Phase Errors, Syntactic Phase Errors, Semantic Errors.
23 March, 2023	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Parsing Techniques: Top down & Bottom-up parsing, Shift Reduce parsing, Operator Precedence parsing, Predictive Parsers. Left Recursion and its removal, Recursive Descent parser, Automatic Construction of efficient Parsers: LR parsers, the Canonical Collection of LR(0) items, Constructing SLR parsing tables, Constructing Canonical LR parsing tables

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Compiler Design
Paper- MS-15-24
Class- M.Sc. CS 2nd Semester

April, 2023 **1st Week** **1 April, 2023**	Revision
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Constructing LALR parsing tables, Using Ambiguous Grammars, an Automatic Parser Generator, Implementation of LR parsing tables, Constructing LALR sets of items. YACC package on UNIX systems.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April –** **15 April**	Intermediate Code Generation: Object programs, Issues in the design of a code generator, Intermediate languages, Quadruples, Generating intermediate code for declarative statement, Register Allocation and Assignment statement
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Boolean expression, and case statement, peephole optimization. Code Optimization: Principle sources of Optimization, optimization of basic blocks, Loop Optimizations
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Compiler Design
Paper- MS-15-24
Class- M.Sc. CS 2nd Semester

May, 2023 **1st Week** **1 May -6 May**	DAG Representation of Basic Blocks, Loop Invariant Computation, Reducible Flow Graphs, Global Data Flow Analysis, code improving transformation.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of the whole syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Logical Organization of Computers – II
Paper- BCA - 112
Class- BCA 2nd Semester

February, 2023 **1st Week** **1 Feb-4 Feb**	Sequential Logic: Characteristics, Flip-Flops, Clocked RS
5 Feb, 2023	**Guru Ravidas Jayanti, Sunday**
2nd Week **6 Feb -11 Feb**	D type Flip Flop, JK Flip Flop, T type Flip Flop, Master-Slave flip-flops
12 Feb, 2023	**Sunday**
3rd Week **13 Feb -17 Feb**	State table, State Diagram. Flip-flop excitation tables, Sequential Circuits: Designing registers – Serial Input Serial Output (SISO), Serial Input, Parallel Output (SIPO), Parallel Input Serial Output (PISO), Parallel Input Parallel Output (PIPO) and shift registers
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-N Counters and Up-Down Counters
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Revision of Unit I & Unit II

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Logical Organization of Computers – II
Paper- BCA - 112
Class- BCA 2nd Semester

March, 2023 **1st Week** **1March -4 March**	Memory & I/O Devices: Memory Parameters, Semiconductor RAM, ROM
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rd Week **13 March-18 March**	Magnetic and Optical Storage devices, Flash memory, I/O Devices and their controllers.
19 March,2023	**Sunday**
4th Week **20March-25 March**	Instruction Design & I/O Organization: Machine instruction, Instruction set selection, Instruction cycle
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Instruction Format and Addressing Modes. I/O Interface

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Logical Organization of Computers – II
Paper- BCA - 112
Class- BCA 2nd Semester

April, 2023 **1st Week** **1 April, 2023**	Revision of Unit III
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Interrupt structure, Program-controlled, Interrupt-controlled
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April –** **15 April**	DMA transfer, I/O Channels, IOP
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29** **April**	Revision of Unit III
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject- Logical Organization of Computers – II
Paper- BCA - 112
Class- BCA 2nd Semester

May, 2023 **1st Week** **1 May -6 May**	Revision of Unit IV
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of the whole syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject: Computers
Paper: Computer Awareness (Level-01)
Class: B.A. I Year

February, 2023 **1st Week** **1 Feb-4 Feb**	**Operating System -** Definition & Functions of Operating System, Basics of Popular Operating Systems
5 Feb, 2023	**Guru Ravidas Jayanti, Sunday**
2nd Week **6 Feb -11 Feb**	The User Interface, Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu-selection, managing files and folders
12 Feb, 2023	**Sunday**
3rd Week **13 Feb -17 Feb**	**Control panel** – display properties, add/remove software and hardware, Running an Application
18 Feb, 2023 **19 Feb,2023**	**Maha Shivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Revision of the above topics

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject: Computers
Paper: Computer Awareness (Level-01)
Class: B.A. I Year

March, 2023 1st Week 1March -4 March	**Word Processing:** Introduction to Word Processing, Menus, Creating, Editing & Formatting Document
2nd Week 5 March -12 March, 2023	**Holi Break**
3rd Week 13 March-18 March	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
19 March,2023	**Sunday**
4th Week 20March-25 March	**Spread Sheet:** Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus, Manipulation of cells: Enter texts numbers and dates
23 March, 2023 26 March, 2023	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week 27 March- 31 March	Cell Height and Widths, Copying of cells, Mathematical, Statistical and Financial function

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject: Computers
Paper: Computer Awareness (Level-01)
Class: B.A. I Year

April, 2023 **1st Week** **1 April, 2023**	Drawing different types of charts
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	**Presentation Software:** Creating, modifying and enhancing a presentation
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April –** **15 April**	Delivering a presentation, Using sound, animation and design templates in presentation **Computer Communication:** Internet and its applications, Connecting to internet, Surfing the Internet using web browsers
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Prashantika P Sanduja
Subject: Computers
Paper: Computer Awareness (Level-01)
Class: B.A. I Year

May, 2023 **1st Week** **1 May -6 May**	Creating Email Id, Viewing an E-Mail, Sending an E-Mail to a single and multiple users, Sending a file as an attachment.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of the whole syllabus
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- THEORY OF COMPUTATION
Paper- MS-15-23
Class- M.Sc. CS 1ˢᵗ Semester

February, 2023 **1ˢᵗ Week** **1 Feb-4 Feb**	Computability and Non-computability and examples of non-computable problems, Russel's paradox, Finite State System, Extended Transition Function
5 Feb, 2023	**Guru Ravidas Jayanti, Sunday**
2ⁿᵈ Week **6 Feb -11 Feb**	Designing of DFA and NDFA, Finite Automata with E-Transitions, Equivalence of DFA and NFA with proof, Regular Expression, Laws of Regular Expressions.
12 Feb, 2023	**Sunday**
3ʳᵈ Week **13 Feb -17 Feb**	Kleene's Theorem 1 and 2, Properties and Limitations of FSM, FSM with Output: Moore and Mealy Machines, Arden's Theorem with proof, Closure Properties of Regular Sets, Application of Pumping Lemma, Myhill-Nerode Theorem, Minimization of FA.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4ᵗʰ Week **20Feb -25 Feb**	Grammar: Definition, Chomsky Classification of Grammars, Construction of Context Free Grammar,Derivation
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb -28 Feb**	Parse Trees, Ambiguity, Removal of Ambiguity, Simplification of Context Free Grammar, CNF and GNF, Closure properties of CFL, Pumping Lemma for CFL.

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- THEORY OF COMPUTATION
Paper- MS-15-23
Class- M.Sc. CS 1st Semester

March, 2023 **1st Week** **1March -4 March**	Pushdown Automaton: Introduction, Types of PDA, Designing of PDA's, Conversion from PDA to CFG and vice-versa, Applications, Parsing: Early's, Cook-Kasami-Young, Tomito's, top-down and bottom-up methods
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rd Week **13 March-18 March**	Linear Bounded Automata (LBA), Turing machines, variants of TMs, Restricted TMs, TMs and Computers. Recursive and recursively- enumerable languages and Properties.
19 March,2023	**Sunday**
4th Week **20March-25 March**	Decidability: Post's correspondence problem, Rice's theorem, decidability of membership, emptiness and equivalence problems of languages.
23 March, 2023	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Random Access Machines, Decidable languages, decidable problems, The halting problem, Diagonalization method, Undecidable problems for Regular expressions, Turing machines and other undecidable problems.

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- THEORY OF COMPUTATION
Paper- MS-15-23
Class- M.Sc. CS 1st Semester

April, 2023 **1st Week** **1 April, 2023**	Revision
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Reducibility: The Set NP and Polynomial Verifiability, Polynomial-Time Reductions and NP-Completeness
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April –** **15 April**	The Cook-Levin Theorem, Some Other NP-Complete Problems, Reduction, mapping reducibility.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Computational Complexity: Primitive recursive functions
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- THEORY OF COMPUTATION
Paper- MS-15-23
Class- M.Sc. CS 1st Semester

May, 2023 **1st Week** **1 May -6 May**	computable functions, examples, Recursion theorem. Tractable and Intractable problems, Theory of Optimization.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of the whole syllabus
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- SECURITY IN COMPUTING
Paper- MS-15-44(IV)
Class- M.Sc. CS 4ᵗʰ Semester

February, 2023 **1ˢᵗ Week** **1 Feb-4 Feb**	Computer Security Concepts, Threats, Attacks and Assets, Security Functional Requirements, Security Architecture and Scope of Computer Security
5 Feb, 2023	**Guru Ravidas Jayanti, Sunday**
2ⁿᵈ Week **6 Feb -11 Feb**	Computer Security Trends, Computer Security Strategies. Program Security: Secure Program.
12 Feb, 2023	**Sunday**
3ʳᵈ Week **13 Feb -17 Feb**	Non-malicious Program Error, Viruses and other Malicious Code, Targeted Malicious Code, Control against Program Threats.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4ᵗʰ Week **20Feb -25 Feb**	Database Security: Database Management System, Relational Databases, Database Access Control, Inference.
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb -28 Feb**	Security Requirements, Reliability and Integrity, Sensitive Data, Database Encryption.

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- SECURITY IN COMPUTING
Paper- MS-15-44(IV)
Class- M.Sc. CS 4th Semester

March, 2023 **1stWeek** **1March -4 March**	Network Security: Threats in Network, Network Security Controls, Firewall- Need for firewall, Characteristics
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-18 March**	Types of firewall, Firewall Basing, Intrusion Detection System- Types, Goals of IDS, IDS strengths and Limitations.
19 March,2023	**Sunday**
4thWeek **20March-25 March**	Internet Security Protocols and Standards: Secure Socket Layer (SSL) and Transport Layer Security (TLS),
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	IPv4 and IPv6 Security, Kerberos 672, X.509 678, Public Key Infrastructure.

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- SECURITY IN COMPUTING
Paper- MS-15-44(IV)
Class- M.Sc. CS 4th Semester

April, 2023 **1st Week** **1 April, 2023**	Revision
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Linux Security Model, File System Security, Linux Vulnerability, Linux System Hardening, Application Security.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April –** **15 April**	Window Security Architecture, Windows Vulnerability, Windows Security Defense, Browser Defenses.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29** **April**	Physical Security Threats, Physical Security Prevention and Mitigation Measures, Recovery form Physical Security Breaches
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- SECURITY IN COMPUTING
Paper- MS-15-44(IV)
Class- M.Sc. CS 4th Semester

May, 2023 **1st Week** **1 May -6 May**	Security Auditing Architecture, Security Audit Trail, Security Risk assessment, Security Controls or Safeguard, IT Security Plan, Cybercrime and Computer Crime, Intellectual Property, Privacy, Ethical Issues.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of the whole syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- Computer Graphics
Paper- BCA-363:
Class- BCA 6th Semester

February, 2023 **1st Week** **1 Feb-4 Feb**	Introduction to Computer Graphics; Interactive and Passive Graphics; Applications of Computer Graphics
5 Feb, 2023	**Guru Ravidas Jayanti, Sunday**
2nd Week **6 Feb -11 Feb**	Display Devices: CRT; Random Scan, Raster Scan, Refresh Rate and Interlacing, Bit Planes, Color Depth, Color Palette
12 Feb, 2023	**Sunday**
3rd Week **13 Feb -17 Feb**	Display Devices: CRT; Random Scan, Raster Scan, Refresh Rate and Interlacing, Bit Planes, Color Depth, Color Palette
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Interactive Input Devices, Display Processor, General Purpose Graphics Software, Coordinate Representations;
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Revision of Unit I

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- Computer Graphics
Paper- BCA-363:
Class- BCA 6th Semester

March, 2023 **1st Week** **1March -4 March**	Point-Plotting Techniques: Scan Conversion, Scan-Converting a Straight Line: The Symmetrical DDA, The Simple DDA
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rd Week **13 March-18 March**	Bresenham's Line Algorithm; Scan-Converting a Circle: Circle drawing using Polar Coordinates, Bresenham's Circle Algorithm
19 March,2023	**Sunday**
4th Week **20March-25 March**	Scan-Converting an Ellipse: Polynomial Method, Trigonometric Method; Polygon Area Filling: Scan-line Fill and Flood Fill Algorithms
23 March, 2023	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Two-Dimensional Graphics Transformation: Basic Transformations: Translation, Rotation, Scaling; Matrix Representations and Homogeneous Coordinates

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- Computer Graphics
Paper- BCA-363:
Class- BCA 6th Semester

April, 2023 **1st Week** **1 April, 2023**	Revision of Unit II
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Other Transformations: Reflection, Shearing; Coordinate Transformations; Composite Transformations
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April –** **15 April**	nverse Transformation; Affine Transformations; Raster Transformation; Graphical Input: Pointing and Positioning Devices and Techniques
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29** **April**	Revision of Unit III Two-Dimensional Viewing: Window and Viewport, 2-D Viewing Transformation Clipping: Point Clipping; Line Clipping: Cohen-Sutherland Line Clipping Algorithm, Mid-Point
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Tarjeet Kaur
Subject- Computer Graphics
Paper- BCA-363:
Class- BCA 6th Semester

May, 2023 **1st Week** **1 May -6 May**	Subdivision Line Clipping Algorithm; Polygon Clipping: Sutherland-Hodgman Polygon Clipping Algorithm; Three-Dimensional Graphics: Three-Dimensional Display Methods; 3-D Transformations: Translation, Rotation, Scaling; Composite Transformations;
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of the whole syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Tarjeet Kaur
Subject: Computers
Paper: Computer Awareness (Level-01)
Class: B.A. I Year

February, 2023 **1st Week** **1 Feb-4 Feb**	**Operating System -** Definition & Functions of Operating System, Basics of Popular Operating Systems
5 Feb, 2023	**Guru Ravidas Jayanti, Sunday**
2nd Week **6 Feb -11 Feb**	The User Interface, Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu-selection, managing files and folders
12 Feb, 2023	**Sunday**
3rd Week **13 Feb -17 Feb**	**Control panel** – display properties, add/remove software and hardware, Running an Application
18 Feb, 2023 **19 Feb,2023**	**Maha Shivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Revision of the above topics

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Tarjeet Kaur
Subject: Computers
Paper: Computer Awareness (Level-01)
Class: B.A. I Year

March, 2023 **1ˢᵗWeek** **1March -4 March**	**Word Processing:** Introduction to Word Processing, Menus, Creating, Editing & Formatting Document
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **13 March-18 March**	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
19 March,2023	**Sunday**
4ᵗʰWeek **20March-25 March**	**Spread Sheet:** Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus, Manipulation of cells: Enter texts numbers and dates
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March- 31 March**	Cell Height and Widths, Copying of cells, Mathematical, Statistical and Financial function

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Tarjeet Kaur
Subject: Computers
Paper: Computer Awareness (Level-01)
Class: B.A. I Year

April, 2023 1st Week 1 April, 2023	Drawing different types of charts
2 April, 2023	**Sunday**
2nd Week 3 April -8 April	**Presentation Software:** Creating, modifying and enhancing a presentation
4 April, 2023 9 April, 2023	**MahavirJayanti** **Sunday**
3rd Week 10April – 15 April	Delivering a presentation, Using sound, animation and design templates in presentation **Computer Communication:** Internet and its applications, Connecting to internet, Surfing the Internet using web browsers
14 April, 2023 16 April, 2023	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week 17 April -21 April	**Sessional Exams**
22 April, 2023 23 April, 2023	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek 24 April -29 April	Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Tarjeet Kaur
Subject: Computers
Paper: Computer Awareness (Level-01)
Class: B.A. I Year

May, 2023 **1st Week** **1 May -6 May**	Creating Email Id, Viewing an E-Mail, Sending an E-Mail to a single and multiple users, Sending a file as an attachment.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of the whole syllabus
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Megha
Class- BCA II
Subject- Management Information System
Paper- BCA-246

February,2023 **1st Week** **1Feb-4 Feb**	Introduction to System and Basic System Concepts,Types of Systems,The System Approach.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **6Feb -11Feb**	Information System:Definition and characteristics,Types of information,role of information in decision Making.
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Subsystems of Information system:EDP and MIS management levels,EDP/MIS/DSS.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	An overview of Management Information System :Definition and characteristics,Components of MIS,Framework for understanding MIS:Information Requirements.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Levels of Management,Simon's Model of Decision Making ,Structered vs Un-Structured decisions,Formal vs Informal systems.
March, 2023 **1stWeek** **1March -** **4March**	Developing Information Systems,Analysis of Information System.
2nd Week **5 March -12** **March, 2023**	**Holi Break**
3rdWeek **13 March-18** **March**	Design of Information System.
19 March,2023	**Sunday**
4thWeek **20March-25** **March**	Implementation and Evaluation of Information System.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Megha
Class- BCA II
Subject- Management Information System
Paper- BCA-246

23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat** **Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Pitfalls in MIS Development.
April, 2023 **1st Week** **1 April, 2023**	Functional MIS: A study of personnel,Financial MIS.
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Production MIS,Introduction to E-Business Systems.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April - 15April**	E-commerce-Technologies.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Applications of E-commerce.
30 April, 2023	**Sunday**

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Megha
Class- BCA II
Subject- Management Information System
Paper- BCA-246

May, 2023 **1st Week** **1 May -6 May**	Decision support systems-support system for planning control,Decision Making.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision.
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Megha
Class- B.A. II
Subject- Object oriented programing with c++
Paper- I

February,2023 **1st Week** **1Feb**	Object oriented programming:object oriented programming features and benefits,object oriented features of c++,class and objects.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **6Feb -08 Feb**	Data hiding ,encapsulation,structures,data members and member functions,nested and local class.
12Feb, 2023	**Sunday**
3rd Week **13Feb -15 Feb**	Accessing members of class and structure,Constructor,initialization using constructor,types of constructor-default,parameterized & copy constructor,constructor overloading,default values to parametres.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -22Feb**	Destructors,console I/O:Hierachy of Console Stream Classes,Unformatted and formatted I/O operations.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Manipualtors,friend function,friend class,arrays,arrays of objects,passing and returning objects to functions.
March, 2023 **1stWeek** **1 March**	String handling in C++,dynamic memory management:pointers.
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-15 March**	New and delete operator,arrays of pointers to objects,this pointer.
19 March,2023	**Sunday**
4thWeek **20March-22 March**	Passing parametrs to functions by reference & Pointers**.**
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms Megha
Class- B.A. II
Subject- Object oriented programing with c++
Paper- I

30 March, 2023	**Ram Navmi**
5th Week **27 March- 29 March**	Static polymorphism.
2 April, 2023	**Sunday**
April, 2023 **2nd Week** **3 April -5 April**	Operators in C++, procedence and associativity rules. Operator overloading.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April - 12April**	Unary and binary operator overloading.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -26 April**	Function overloading.
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May -3 May**	Inline functions,Merits/Demerits of Static Polymorphism.
7 May, 2023	**Sunday**
2nd Week **8 May -10 May**	Revision
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Megha
Class- B.A. II
Subject- Operating System
Paper- II

February,2023 **1ˢᵗ Week** **2 Feb-4 Feb**	Introduction:operating system,architecture,functions.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ⁿᵈWeek **9 Feb -11Feb**	Characteristics,historical evaluation,types:serial,batch.
12Feb, 2023	**Sunday**
3ʳᵈ Week **16Feb -17 Feb**	Multiprogramming , time sharing,real time,distributed and parallel,OS as resource Manager.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4ᵗʰ Week **23 Feb -25 Feb**	Computer system structures:I/O structure,storage structure,storage hierachy. Operating sysytem structure:system components,services,system calls,system programs,system structures.
26 Feb, 2023	**Sunday**
March, 2023 **1ˢᵗWeek** **2 March -4 March**	Process Management:process concepts,process state,process control block,operations,process scheduling,inter process communication.
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **16 March-18 March**	CPU Scheduling:scheduling criteria,levels of sceduling ,scheduling algorithms,multiple processor scheduling,Deadlocks:Characterization,methods of handling.
19 March,2023	**Sunday**
4ᵗʰWeek **23March-25 March**	Deadlock detection,prevention,avoidance,recovery.
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **30 March- 31 March**	Storage management:memory management of single-user and multiuser operating system,partitioning.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Megha
Class- B.A. II
Subject- Operating System
Paper- II

April, 2023 **1st Week** **1 April, 2023**	Swapping,paging and segmentation,virtual memory,page replacement algorithms,thrashing.
2 April, 2023	**Sunday**
2nd Week **6 April -8 April**	Process syschronization:critical section problems.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **13April -** **15April**	Semaphores,mutual exclusion.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **20 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **27 April -29** **April**	Device and file management, Disk sceduling,Disk structure,disk management,File System.
30 April, 2023	**Sunday**
May, 2023 **1st Week** **4 May -6 May**	Functions of the systems,file access and allocation methods,directory systems,structured organization,directory and file protection mechanisms.
7 May, 2023	**Sunday**
2nd Week **11 May -13 May**	Revision.
14 May, 2023	**Sunday**
17 May,2023 **onwards**	**University Examination**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Megha
Class- BCA I
Subject- Structered System Analysis and Design
Paper- BCA-125

February,2023 **1st Week** **1Feb-4 Feb**	System concepts:definition,characteristics.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **6Feb -11Feb**	Elements of systems, physical and abstract systems,open and closed systems.
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Man –made information system,SDLC.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Various phases of system development,considerations for system planning and control for system success.role of system analyst.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	System planning:bases for planning in system analysis:dimensions of planning.
March, 2023 **1stWeek** **1March -4 March**	Initial Investigation:Determining user's requirements and analysis,fact finding process.
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-18 March**	Fact finding techniques.
19 March,2023	**Sunday**
4thWeek **20March-25 March**	Tools of structerd analysis,DFD,Data dictionary.
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Megha
Class- BCA-I
Subject- Structered System Analysis and Design
Paper- BCA-125

30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	IPO and HIPO charts.
April, 2023 **1st Week** **1 April, 2023**	Gantt charts,Pseudo codes,flow charts,decision tree,decision tables.
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Feasibility study:technical,operational,economic feasibilities.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -** **15April**	Cost/benefit analysis:data analysis cost and benefit analysis of a system. Input/output and form design,file organization and database design:introduction to file and database.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	File structures and organization,objectives of database design,logical and physcial view of data. System testing:introduction,objectives of testing,test planning,testing techniques,quality assurance,goals of quality assurance.
30 April, 2023	**Sunday**

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Megha
Class- BCA-I
Subject- Structered System Analysis and Design
Paper- BCA-125

May, 2023 **1st Week** **1 May -6 May**	levels of quality assurance,system implementation and software maintenance:primary activities in maintenance,reducing maintenance costs.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms Megha
Class- BCOM I
Subject- E-Commerce
Paper- BC-204

February, 2023 **1st Week** **1 Feb**	Introduction to internet,concept.
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2nd Week **6 Feb - 8 Feb**	Application and uses of internet,Internet services.
12 Feb, 2023	**Sunday**
3rd Week **13 Feb - 15 Feb**	Internet services,Information technology and business.
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4th Week **20 Feb - 22 Feb**	Concept of data,information and information system.
26 Feb, 2023	**Sunday**
5th Week **27 Feb - 28 Feb**	Effect of IT on business
March, 2023 **1st Week** **1 March**	Types of information system.
2nd Week **6 March -** **12 March, 2023**	**Holi Break**
3rd Week **13 March -** **15 March**	TPS(Transaction Processing system), MIS(Management Information System)
19 March, 2023	**Sunday**
4th Week **20 March -**	Introduction to E-commerce,Ecommerce and WWW.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Megha
Class- BCOM I
Subject- E-Commerce
Paper- BC-204

22 March	Ecommerce application services,e-commerce models.
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March -** **29 March**	B2B,B2C,C2C.
April, 2023 **2 April, 2023**	**Sunday**
2ⁿᵈ Week **3 April - 5 April**	Electronic data Interchange.
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3ʳᵈ Week **10 April -** **12 April**	Benefits of electronic data interchange.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4ᵗʰ Week **17 April -** **19 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5ᵗʰ Week **24 April -** **26 April**	Components of EDI.
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Megha
Class- BCOM I
Subject- E-Commerce
Paper- BC-204

May, 2023 1st Week 1 May - 3 May	EDI Implementation. Security issues in E-Commerce, M-Commerce, E-Governance-An overview.
7 May, 2023	**Sunday**
2nd Week 8 May - 10 May	Revision
14 May, 2023	**Sunday**
17 May, 2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Gurcharan Kaur
Class - B.Sc + BA-III
Subject-: Relational Data Base Management System
Paper- Paper-I

February, 2023 **1ˢᵗ Week** **1 Feb**	Relational Model Concepts, Codd's Rules for Relational Model,
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2ⁿᵈ Week **6 Feb - 8 Feb**	Components, Example, Data Model– Introduction, Hierarchical Features
12 Feb, 2023	**Sunday**
3ʳᵈ Week **13 Feb - 15 Feb**	Differences between Hierarchical Data Model and Network Data Model Comparison of Relational Data Model with Hierarchical Data Model and Network Data Model
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4ᵗʰ Week **20 Feb - 22 Feb**	**Assignment-I** **Class Test** Relational Algebra:-Selection and Projection, Set Operation, Join and Division
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb - 28 Feb**	Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Gurcharan Kaur
Class- B.Sc   + BA-III
Subject-: Relational Data Base Management System
Paper- Paper-I

March, 2023 **1ˢᵗ Week** **1 March**	Functional Dependencies
2ⁿᵈ Week **5 March -** **12 March, 2023**	**Holi Break**
3ʳᵈ Week **13 March -** **15 March**	Normalization -- Purpose, Data Redundancy, Update Anomalies Partial/Fully Functional Dependencies, Transitive Functional Dependencies
19 March, 2023	**Sunday**
4ᵗʰ Week **20 March -** **22 March**	Characteristics of Functional Dependencies, Decomposition and Normal Forms (1NF, 2NF, 3NF & BCNF). **Class Test**
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March -** **29 March**	SQL: Data Definition and data types, Create Table, Insert Data, Viewing Data, Filtering Table **Assignment-II**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms.Gurcharan Kaur
Class- B.Sc + BA-III
Subject-: Relational Data Base Management System
Paper- Paper-I

April, 2023 **1st Week** **2 April, 2023**	**Sunday**
2nd Week **3 April - 5 April**	Join, Concatenating data from Table Specifying Constraints in SQL; Primary Key, Foreign Key, Unique Key, Check Constraint, Using Functions
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **10 April -** **12 April**	Data, Sorting data, Creating Table from a Table, Destroy table, Update, View, Delete
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -** **21 April**	PL/SQL-Introduction, Advantages of PL/SQL PL/SQL Character Set and Data Types, Declaration and Assignment of Variables
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **24 April -** **26 April**	**Sessional Exams**
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Gurcharan Kaur
Class- B.Sc   +   BA-III
Subject-: Relational Data Base Management System
Paper- Paper-I

May, 2023 **1ˢᵗ Week** **1 May - 3 May**	Control Structure in PL/SQL: Conditional Control, Iterative Control, Sequential Control
7 May, 2023	**Sunday**
2ⁿᵈ Week **8 May - 10 May**	**Revision and Class Test**
14 May, 2023	**Sunday**
17 May, 2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher –Ms. Gurcharan Kaur
Class- B.Sc + B.A -III
Subject- Computer Networks
Paper- Paper-II

February, 2023 **1st Week** **2 Feb - 4 Feb**	Introduction to Data Communication and Computer Networks; Uses of Computer Networks;
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2nd Week **9 Feb - 11 Feb**	Types of Computer Networks and their Topologies; Network Hardware Components
12 Feb, 2023	**Sunday**
3rd Week **16 Feb - 17 Feb**	Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways; Network Software: Network Design issues and Protocols;
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4th Week **23 Feb - 25 Feb**	Connection-Oriented and Connectionless Services; OSI Reference Model; TCP/IP Model **Assignment-I**
26 Feb, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher –Ms. Gurcharan Kaur
Class- B.Sc + B.A -III
Subject- Computer Networks
Paper- Paper-II

March, 2023 **1st Week** **2 March - 4 March**	Analog and Digital Communications Concepts: Analog and Digital data and signals; Bandwidth Data Rate, Capacity, Baud Rate; Guided and Wireless Transmission Media; Communication
2nd Week **5 March -** **12 March, 2023**	**Holi Break**
3rd Week **16 March -** **18 March**	Satellites; Switching and Multiplexing; Modems and modulation techniques;
19 March, 2023	**Sunday**
4th Week **23 March -** **25 March**	Data Link Layer Design issues; Error Detection and Correction methods; Sliding Window
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **31 March, 2023**	Protocols: One-bit, Go Back N and Selective Repeat; Media Access Control: ALOHA, Slotted **Assignment-II**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher –Ms. Gurcharan Kaur
Class- B.Sc   +   B.A -III
Subject- Computer Networks
Paper- Paper-II

April, 2023 **1st Week** **1 April, 2023**	ALOHA, CSMA, Collision free protocols
2 April, 2023	**Sunday**
2nd Week **6 April - 8 April**	Introduction to LAN technologies: Ethernet, Switched Ethernet, Fast Ethernet, Gigabit Ethernet
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **13 April -** **15 April**	Routing Algorithms: Flooding, Shortest Path Routing, Distance Vector Routing; Link State Security Issues: Security attacks; Encryption methods; Firewalls; Digital Signatures;
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **20 April -** **21 April**	Routing, Hierarchical Routing; Congestion Control; Traffic shaping; Choke packets; Load
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **27 April -** **29 April**	**Sessional Exams**
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher –Ms. Gurcharan Kaur
Class- B.Sc   +   B.A -III
Subject- Computer Networks
Paper- Paper-II

May, 2023 **1st Week** **4 May - 6 May**	shedding; Application Layer: Introduction to DNS, E-Mail and WWW services; Network
7 May, 2023	**Sunday**
2nd Week **11 May - 13 May**	**Revision of Syllabus** **Class Test**
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Gurcharan Kaur
Class- BCA-III
Subject- Computers
Paper- BCA-361: Web Designing Using Advanced Tools

February, 2023 **1st Week** **1 Feb - 4 Feb**	Interactivity Tool - JavaScript: Introduction, Features, Data types, Operators, Statements, Functions
5 Feb, 2023	**Guru Ravidas Jayanti , Sunday**
2nd Week **6 Feb - 11 Feb**	Event Handling, Use of Predefined Object and Methods, Frames, Windows, Tables, Images, Links
12 Feb, 2023	**Sunday**
3rd Week **13 Feb - 17 Feb**	Interactivity Tool - VBScript: Introduction, Features, Variables, Data Types, Numeric and Literal Constants
18 Feb, 2023 **19 Feb, 2023**	**Maha Shivaratri** **Sunday**
4th Week **20 Feb - 25 Feb**	Arrays, Operators, Subroutine Procedures, Function Procedures, Control Statements, Strings, Message and Input Boxes, Date and Time, Event Handlers, Embedding VBScript in HTML
26 Feb, 2023	**Sunday**
5th Week **27 Feb - 28 Feb**	**Assignment-I** **Class Test** Interactivity Tool - Active Script Pages – Introduction, Features, Client-Server Model, Data Types

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Gurcharan Kaur
Class- BCA-III
Subject- Computers
Paper- BCA-361: Web Designing Using Advanced Tools

March, 2023 **1ˢᵗ Week** **1 March - 4 March**	Decision Making Statements, Control statements, Use of Various Objects of ASP, Various Techniques of Connecting to Database
2ⁿᵈ Week **5 March -** **12 March, 2023**	**Holi Break**
3ʳᵈ Week **13 March -** **18 March**	Interactivity Tools **-** Macromedia Flash, Macromedia
19 March, 2023	**Sunday**
4ᵗʰ Week **20 March -** **25 March**	**Assignment-II** **Class Test**
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru & Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March -** **31 March**	Dreamweaver, PHP: Basic Introduction and Features

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms.Gurcharan Kaur
Class- BCA-III
Subject- Computers
Paper- BCA-361: Web Designing Using Advanced Tools

April, 2023 **1st Week** **1 April, 2023**	DHTML: Introduction, Features, Events, Dynamic Positioning, Layer Object, Properties of STYLE
2 April, 2023	**Sunday**
2nd Week **3 April - 8 April**	Dynamic Styles, Inline Styles, Event Handlers; Cascading Style Sheets (CSS): Basic Concepts **Class Test**
4 April, 2023 **9 April, 2023**	**Mahavir Jayanti** **Sunday**
3rd Week **10 April -** **15 April**	Properties, Creating Style Sheets; Common Tasks with CSS: Text, Fonts, Margins, Links, Tables
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. Ambedkar Jayanti** **Sunday**
4th Week **17 April -** **21 April**	Colors; Marquee; Mouseovers; Filters and Transitions; Adding Links; Adding Tables; Adding Forms **Assignment-II**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/Parshuram Jayanti** **Sunday**
5th Week **24 April -** **29 April**	**Sessional Exams**
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Gurcharan Kaur
Class- BCA-III
Subject- Computers
Paper- BCA-361: Web Designing Using Advanced Tools

May, 2023 **1st Week** **1 May - 6 May**	Adding Image and Sound; Use of CSS in HTML Documents Linking and Embedding of CSS in HTML Document
7 May, 2023	**Sunday**
2nd Week **8 May - 13 May**	**Revision of Syllabus** **Class Test**
14 May, 2023	**Sunday**
17 May, 2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Gurcharan Kaur
Class- Computers
Subject- Computer Awareness (Level-01)
Paper- B.A-I

2ndWeek **6Feb -11Feb**	**Operating System -** Definition & Functions of Operating System, Basics of Popular Operating Systems; The User Interface Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu-selection, managing files and folders.
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu selection, managing files and folders.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	**Control panel** – display properties, add/remove software and hardware, Running an Application, Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	**Assignment-1**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Gurcharan Kaur
Class- Computers
Subject- Computer Awareness (Level-01)
Paper- B.A-I

March, 2023 **1ˢᵗWeek** **1March -4 March**	**Word Processing:** Introduction to Word Processing, Menus, Creating, Editing & Formatting Document
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **13 March-18 March**	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
19 March,2023	**Sunday**
4ᵗʰWeek **20March-25 March**	**Spread Sheet:** Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus,
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March- 31 March**	Manipulation of cells: Enter texts numbers and dates, Cell Height and Widths, Copying of cells, Mathematical, Statistical and Financial function, Drawing different types of charts.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Gurcharan Kaur
Class- Computers
Subject- Computer Awareness (Level-01)
Paper- B.A-I

April, 2023 **1st Week** **1 April, 2023**	**Presentation Software:** Creating, modifying and enhancing a presentation,
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Delivering a presentation, Using sound, animation and design templates in presentation
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -** **15April**	**Computer Communication:** Internet and its applications, Connecting to internet, Surfing the Internet using web browsers
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	**Sessional Exams**
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Gurcharan Kaur
Class- Computers
Subject- Computer Awareness (Level-01)
Paper- B.A-I

May, 2023 **1st Week** **1 May -6 May**	Creating Email Id, Viewing an E-Mail, Sending an E-Mail to a single and multiple users, Sending a file as an attachment.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	**Revision of Syllabus** **Class Tests**
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Saumya Kumar
Class- BCA III
Subject- Programming in Core Java
Paper- BCA-306

February,2023 **1st Week** **1Feb-4 Feb**	Basic Principles of Object Oriented Programming, Introduction To Java, History and Features of Java.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **6Feb -11Feb**	Java Virtual Machine (JVM), Java's Magic Bytecode, The Java Runtime Environment.
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Basic language elements, Lexical tokens, Identifiers,Keywords, Literals, Comments, Primitive Data Types.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Operators,Assignment, Input /output in Java:Bascis,I/O Classes , Reading Console Input.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Control Structures in Java: Decision and Loop Control Statements.
March, 2023 **1stWeek** **1March -4 March**	Classes and Object in Java: Defining Class in Java, Creating Objects of a Class, Defining Methods, Argument Passing Mechanism, Using Class And Objects, Constructors.
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-18 March**	Nested Class, Inner Class, Abstract Class, Dealing with Static Members. Array & String in Java: Defining an Array, Initializing and Accessing Array,Multi-Dimentional Array.
19 March,2023	**Sunday**
4thWeek **20March-25 March**	Defining String, Operation o Array and String , Creating Strings Using String Class, Creating String using String Buffer Class.
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat** **Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Polymorphism in Java: Basic Concepts, Types,Overriding vs. Overloading , Implementation.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Saumya Kumar
Class- BCA III
Subject- Programming in Core Java
Paper- BCA-306

April, 2023 **1st Week** **1 April, 2023**	Extending Classes and Inheritance in JAVA: Benefits of Inheritance, Types of Inheritance in Java, Access Attributes, Inheriting Data Members and Methods, Role of constructors In Inheritance.
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Use of "Super", Packages & Interfaces: Basic Concepts of Package and Interface, Organizing Classes and Interfaces in Packages,Defining Package, Adding Classes from a Package to Your Program.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -** **15April**	CLASSPATH Setting for Packages, Import Package, Naming Convention for Packages, Access Protection In packages, Standard Packages.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29** **April**	Exception Handling In Java, Types Of Exception, Use of try, catch, finally, throw, throws in Exception Handling , Inbuilt and User Defined Exception, Checked and Unchecked Exception, Catching more than one Exception.
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May -6 May**	Applet In Java: Basics, Applet Architecture, Applet Life Cycle, Applet Tag, Parameters To Applet, Embedding Applets in web page
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Creating Simple Applets, GUI Programming: designing Graphical user Interfaces in Java , Components and Containers, Layout Managers, AWT Components, AWT Classes, AWT Controls.
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher –Ms. Saumya Kumar
Class- BCA I
Subject- Office Automation Tools
Paper- BCA 124

February,2023 **1st Week** **1Feb-4 Feb**	Desktop Publishing, Concept, Need and Application, Hardware and Software Requirements for DTP, An Overview and Comparison Between DTP Packages,Common Features of DTP.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **6Feb -11Feb**	Introduction To Pagemaker , Features, Sytem Requirements, Components of Page maker,Introduction to Menu and Toolbars , Pagemaker Preferences.
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Starting Pagemaker, Setting Page size, Placing the text, formatting the text:Character Specifications , Paragraph Setting, paragraph Rules, Spacing , Indents/Tabs, Define Styles
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Hyphenation, Header & Footer, Page Numbering, Saving and Closing Publication.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	Editing Publication: Open Publication, Story Editor, Find and change the Text, Change Character and paragraph attributes, spell checking, selecting text, cut , copy, paste, paste multiple, working with column
March, 2023 **1stWeek** **1March -4 March**	Introduction to Office Automation, Creating & Editing Document, Formatting Document, Auto Text , Auto Correct,Spelling and Grammar Tool.
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-18 March**	Document Dictionary, Page Formatting, Bookmark, Advance Features of word- Mail merge.
19 March,2023	**Sunday**
4thWeek **20March-25 March**	Macros, Tables, File Management, Printing.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher –Ms. Saumya Kumar
Class- BCA I
Subject- Office Automation Tools
Paper- BCA 124

23 March, 2023	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev**
26 March, 2023	**Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	Styles, linking and embedding object.
April, 2023 **1st Week** **1 April, 2023**	Powerpoint presentation basics, creating, manipulating and enhancing slides.
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Organizational charts, excel charts, word art, clip art, shapes.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April - 15April**	Layering Art Objects, Animations and sounds
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Inserting animated pictures or accessing through object.
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May -6 May**	Inserting Recorded Sound Effect or inbuilt Sound Effect.
7 May, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher –Ms. Saumya Kumar
Class- BCA I
Subject- Office Automation Tools
Paper- BCA 124

2nd Week 8 May -13 May	Formatting of PowerPoint and various types
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher –Ms. Saumya Kumar
Class- M.com
Subject- IT & Commerrce
Paper- MC401

February,2023 **1st Week** **1Feb-4 Feb**	Introduction to E-Commerce:Meaning , Business applications of E-Commerce.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2nd Week **6Feb -11Feb**	Comparison with traditional commerce, business models in E-Commerce-Eshops, e-procurement, e-auctions
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Value chain integrators, information brokerage, telecommunication.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Collaboration platforms, electronic payment system
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	E-Banking concept, operations, online funds transfer-RTGC, ATM.
March, 2023 **1stWeek** **1March -4 March**	Online share market operations, online marketing, web based advertising-concept, advantages, types of online advertisements.
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rdWeek **13 March-18 March**	Search Engine as an advertizing media, search engine optimization-concept and techniques.
19 March,2023	**Sunday**
4thWeek **20March-25 March**	Email Marketing, social Networking and Marketing- promotion , opinion formulation
23 March, 2023 **26 March, 2023**	**Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher –Ms. Saumya Kumar
Class- M.com
Subject- IT & Commerrce
Paper- MC401

5th Week 27 March- 31 March	Viral Marketing, E- retailing Concept, advantages, limitations.
April, 2023 1st Week 1 April, 2023	CRM AND Information Technology
2 April, 2023	**Sunday**
2nd Week 3 April -8 April	Tools to conducting online research- secondary research.
4 April, 2023 9 April, 2023	**MahavirJayanti Sunday**
3rd Week 10April - 15April	Online focus groups, web based surveys, data mining from social networking sites.
14 April, 2023 16 April, 2023	**Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday**
4thWeek 17 April -21 April	**Sessional Exams**
22 April, 2023 23 April, 2023	**ld-Ul-Fitr/ParshuramJayanti Sunday**
5thWeek 24 April -29 April	Cloud computing-concept, uses in business, Enterprise Resource Planning.
30 April, 2023	**Sunday**
May, 2023 1st Week 1 May -6 May	Security issues in e-commerce- online frauds, privacy issues
7 May, 2023	**Sunday**
2nd Week 8 May -13 May	Cyber Laws including Information Technology Act.
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal
Lesson Plan For The EvenSemester
(November to May, 2023)

Name of the Teacher – Ms. Leena
Class- PGDCA
Subject-Computers
Paper-CS-DE-11COMPUTERORGANIZATION& NETWORKINGFUNDAMENTALS

4thWeek **22 Nov -26Nov**	Block diagram of a digital computer, classification, hardware, software.
27 Nov,2022	**Sunday**
5thWeek **28Nov –3 Dec**	I/Odevices,storagedevices–harddisk,pendrive,opticaldevices.
4 Dec, 2022	**Sunday**
2ndWeek **5Dec-10Dec**	Information representation - Number Systems.
11 Dec, 2022	**Sunday**
3rdWeek **12-17Dec,2022**	Conversion from one number system to another numbersystem, Integer Representation – sign magnitude, 1's complement.
18 Dec, 2022	**Sunday**
4thWeek **19-24Dec,2022**	2's complement, BCD codes. Floating-pointRepresentation.
25 Dec,2022	**Christmas day**
5thWeek **26-31 Dec,2022**	Binaryarithmetic–addition,subtractionmultiplication,division.
29 Dec,2022	**Guru Gobind Singh Jayanti**
1 Jan, 2023	**Sunday**
1st Week **2-7 Jan,2023**	Boolean Functions: Boolean algebra.
8 Jan, 2023	**Sunday**
2nd Week **9-14 Jan,2023**	Truth tables, Logic gates.

KVA DAV College for Women, Karnal
Lesson Plan For The EvenSemester
(November to May, 2023)

Name of the Teacher – Ms. Leena
Class- PGDCA
Subject-Computers
Paper-CS-DE-11COMPUTERORGANIZATION& NETWORKINGFUNDAMENTALS

15 Jan, 2023	**Sunday**
3rd Week 16-21 Jan,2023	Canonical representation of Booleanfunctions,simplificationofBooleanexpressions−KarnaughMaps.
22 Jan, 2023	**Sunday**
26 Jan, 2023	**Republic Day**
4th Week 23-28 Jan,2023	QuineMcCluskeyprocedur, Combinational Circuits: Half adder, full adder.
5th Week 30-31 Jan,2023	Half subtractor, full subtractor, parallel binary adder.
February,2023 1st Week 1Feb-4 Feb	BCDadder,codeconverter,decoder,encoder,multiplexer..
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek 6Feb -11Feb	Demultiplexer
12Feb, 2023	**Sunday**
3rd Week 13Feb -17 Feb	Sequential Circuits: Flip-flops – synchronous & asynchronous basic flip flops.
18 Feb, 2023 19 Feb,2023	**MahaShivaratri** **Sunday**
4th Week 20Feb -25 Feb	D-type & T-type flip flops, JKflipflop.
26 Feb, 2023	**Sunday**
5th Week 27 Feb -28 Feb	Master-slaveflipflop.

KVA DAV College for Women, Karnal
Lesson Plan For The EvenSemester
(November to May, 2023)

Name of the Teacher – Ms. Leena
Class- PGDCA
Subject-Computers
Paper-CS-DE-11COMPUTERORGANIZATION& NETWORKINGFUNDAMENTALS

March, 2023 1ˢᵗWeek 1March -4 March	Characteristics&excitationtablesofflip-flops, Registers–shiftregisters.
2ⁿᵈ Week 5 March -12 March, 2023	**Holi Break**
3ʳᵈWeek 13 March-18 March	Counters–synchronous&asynchronousbinarycounters,modulo-Ncounter.
19 March,2023	**Sunday**
4ᵗʰWeek 20March-25 March	IntroductiontoComputerNetworks:TypesofComputerNetworksandtheirtopologies.
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week 27 March-31 March	Transmissionmedia- wired and wireless.
April, 2023 1ˢᵗ Week 1 April, 2023	Network hardware components – connectors.
2 April, 2023	**Sunday**
2ⁿᵈ Week 3 April -8 April	Transceivers & media converters, repeaters.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**

KVA DAV College for Women, Karnal
Lesson Plan For The EvenSemester
(November to May, 2023)

Name of the Teacher – Ms. Leena
Class- PGDCA
Subject-Computers
Paper-CS-DE-11COMPUTERORGANIZATION& NETWORKINGFUNDAMENTALS

3rd Week **10April -** **15April**	NetworkinterfacecardsandPCcards,bridges,switches,routers,gateways.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29** **April**	IntroductiontotheInternet,conceptsofInternetandIntranet;IPaddresses, DNS;InternetServices;E-mail;File transfer and FTP; Remote login using
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May -6 May**	TELNET; World Wide Web and HTTP, Web Browsers, Search Engines, Uniform Resource Locator,Web Servers, Inter-connections, Dialup, LeasedLine, Modems, DSLservice, InternetService Provider.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision of all Syllabus
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Leena
Class- BCA I
Subject- Advanced Programming in C
Paper- BCA – 121

February,2023 **1ˢᵗ Week** **1Feb-4 Feb**	Strings in 'C': Introduction, Declaration and initialization of string, String I/O, Array of Strings.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ⁿᵈWeek **6Feb -11Feb**	String manipulation functions: String length, copy, compare, concatenate, search for a substring.
12Feb, 2023	**Sunday**
3ʳᵈ Week **13Feb -17 Feb**	Structure and Union: Introduction, Features of structures, Declaration and initialization of structures, Structure within structure, Array of structures.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4ᵗʰ Week **20Feb -25 Feb**	Structure and functions. Union:Introduction, Union of structures. Typedef, Enumerations.
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb -28 Feb**	**Pointers: Introduction, Pointer variables, Pointer operators.**
March, 2023 **1ˢᵗWeek** **1March -4 March**	**Pointer assignment, Pointer conversions, Pointer arithmetic, Pointer comparison.**
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Leena
Class- BCA I
Subject- Advanced Programming in C
Paper- BCA – 121

3rd Week **13 March-18 March**	**Pointers and arrays, Pointers and functions, Pointers and strings, Pointer to pointer, dynamic allocation using pointers.**
19 March,2023	**Sunday**
4th Week **20March-25 March**	**Files: Introduction, File types, File operations, File I/O.**
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **27 March- 31 March**	**Structure Read and write in a file.**
April, 2023 **1st Week** **1 April, 2023**	**Errors in file handling, Random-access I/O in files.**
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	**Command line argument, reading a file.**
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -15April**	Preprocessor: Introduction, #define, macros, macro versus functions,

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Leena
Class- BCA I
Subject- Advanced Programming in C
Paper- BCA – 121

14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	#include, Conditionalcompilation directives, undefining a macro. Command line arguments: defining and usingcommand line arguments.
30 April, 2023	**Sunday**
May, 2023 **1st Week** **1 May -6 May**	Command line arguments: defining and usingcommand line arguments.
2nd Week **8 May -13 May**	Revision
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Leena
Class- M.Sc II
Subject- Advance Web Technology
Paper- MS-15-41

February,2023 **1st Week** **1Feb-4 Feb**	Web Browsers, Caching, Downloading and Rendering, Persistent Connections, DNS Caching and Prefetching, CSS Expressions and Performance, Buffering, Weblog.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **6Feb -11Feb**	Optimization and Security, Parallel Downloading, Controlling Caches, Content Compression, Control Size with minification, Optimizing images, Load balancers, Tuning, MySQL.
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Using query caching, Optimizing query execution and optimization, Marketing of website, traffic generation, Newsletter, Security, SQL query log, SQL injections.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Searching techniques used by search engines, Keywords, advertisements, Search engine optimization for individual web pages, header entries, tags, selection of URL.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	alt tags, Search engine optimization for entire website, Hyperlink and link structure.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Leena
Class- M.Sc II
Subject- Advance Web Technology
Paper- MS-15-41

March, 2023 **1ˢᵗWeek** **1March -4 March**	page rank of Google, Click rate, residence time of website, frames, scripts, content management system, cookies, robots, Pitfalls in optimization, optimization and testing.
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **13 March-18 March**	keyword density, doorway pages, duplicate contents, quick change of topic, broken links, Poor readability, rigid layouts, navigation style, tools for optimization, etraking, Google analytics, checklists.
19 March,2023	**Sunday**
4ᵗʰWeek **20March-25 March**	Intoduction, Obtaining user inputs, memory concepts, Operators, Control Structures, Looping constructs, break.
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March- 31 March**	Continue statements, Programmer defined functions, Scoping rules, Recursion and iteration, Array declaration and allocation.
April, 2023 **1ˢᵗ Week** **1 April, 2023**	Passing array to function, Objects: String, Date, Boolean, Window, document, using cookies, Handling Events Using JavaScript.
2 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Leena
Class- M.Sc II
Subject- Advance Web Technology
Paper- MS-15-41

2nd Week **3 April -8 April**	Intoduction to PHP, Installing and Configuring MYSQL and PHP, Basic Security Guidelines, Variables,.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -** **15April**	Data Types, Operators and Expression, Constants, Flow Control Functions, Switching Flow.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Loops, Code Blocks and Brower Output, Objects, Strings Processing, Connecting to database. using cookies, dynamic contents
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Leena
Class- M.Sc II
Subject- Advance Web Technology
Paper- MS-15-41

May, 2023 **1st Week** **1 May -6 May**	using cookies, dynamic contents
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	Revision
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc I(Medical,NM,Biotech)
Subject- Computers
Paper- Computer Awareness (Level-01)

2nd Week **6Feb -11Feb**	**Operating System -** Definition & Functions of Operating System, Basics of Popular Operating Systems; The User Interface Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu-selection, managing files and folders.
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Exploring Computer, Icons, taskbar, desktop, Using Menu and Menu-selection, managing files and folders.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	**Control panel** – display properties, add/remove software and hardware, Running an Application, Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	**Assignment-1**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc I(Medical,NM,Biotech)
Subject- Computers
Paper- Computer Awareness (Level-01)

March, 2023 **1ˢᵗWeek** **1March -4 March**	**Word Processing:** Introduction to Word Processing, Menus, Creating, Editing & Formatting Document
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **13 March-18 March**	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
19 March,2023	**Sunday**
4ᵗʰWeek **20March-25 March**	**Spread Sheet:** Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus,
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March- 31 March**	Manipulation of cells: Enter texts numbers and dates, Cell Height and Widths, Copying of cells, Mathematical, Statistical and Financial function, Drawing different types of charts.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc I(Medical,NM,Biotech)
Subject- Computers
Paper- Computer Awareness (Level-01)

April, 2023 **1ˢᵗ Week** **1 April, 2023**	**Presentation Software:** Creating, modifying and enhancing a presentation, Delivering a presentation, Using sound, animation and design templates in presentation
2 April, 2023	**Sunday**
2ⁿᵈ Week **3 April -8 April**	**Assignment-2**
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3ʳᵈ Week **10April -** **15April**	**Computer Communication:** Internet and its applications, Connecting to internet, Surfing the Internet using web browsers
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4ᵗʰWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5ᵗʰWeek **24 April -29 April**	Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address,
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc I(Medical,NM,Biotech)
Subject- Computers
Paper- Computer Awareness (Level-01)

May, 2023 **1st Week** **1 May -6 May**	Creating Email Id, Viewing an E-Mail, Sending an E-Mail to a single and multiple users, Sending a file as an attachment.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	**Revision of Syllabus and Class Tests**
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc (CS) II
Subject- Object oriented programing with C++
Paper- I

February,2023 **1ˢᵗ Week** **1Feb**	Object oriented programming: object oriented programming features and benefits, object oriented features of c++ , class and objects.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ⁿᵈWeek **6Feb -08 Feb**	Data hiding & encapsulation, Structures, data members and member functions, Scope resolution operator and its significance, Static data members, Static member functions, nested and local class.
12Feb, 2023	**Sunday**
3ʳᵈ Week **13Feb -15 Feb**	Static member functions, nested and local class , Accessing members of class and structure, constructor overloading, default values to 5rogrammin.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4ᵗʰ Week **20Feb -22Feb**	Constructor,initialization using constructor,types of constructor-default,parameterized & copy constructor ,Destructors
26 Feb, 2023	**Sunday**
5ᵗʰ Week **27 Feb -28 Feb**	**Assignment-1**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Mandeep Kaur
Class- B.Sc (CS). II
Subject- Object oriented Programming with c++
Paper- I

March, 2023 **1ˢᵗWeek** **1 March**	Console I/O:Hierachy of Console Stream Classes, Unformatted and formatted I/O operations.
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **13 March-15 March**	Manipualtors, Friend function, Friend class, Arrays, Arrays of objects, passing and returning objects to functions.
19 March,2023	**Sunday**
4ᵗʰWeek **20March-22 March**	String handling in C++, Dynamic memory management: Pointers ,New and delete operator, Arrays of Pointers to objects,
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March- 29 March**	Arrays of Pointers to objects, this pointer, Passing 6rogrammin to functions by reference & Pointers**.**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc (CS) II
Subject- Object oriented Programming with C++
Paper- I

2 April, 2023	**Sunday**
April, 2023 **2nd Week** **3 April -5 April**	**Assignment-2**
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -12April**	Static polymorphism: Operators in C++, Precedence and Associativity rules.
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -26 April**	Operator overloading, Unary and Binary operator overloading.
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms.Mandeep Kaur
Class- B.Sc (CS). II
Subject- Object oriented Programming with C++
Paper- I

May, 2023 **1st Week** **1 May -3 May**	Function overloading, Inline functions, Merits/Demerits of Static Polymorphism.
7 May, 2023	**Sunday**
2nd Week **8 May -10 May**	**Revision of Syllabus and test**
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc.(CS) II
Subject- Operating System
Paper- II

February,2023 **1ˢᵗ Week** **2 Feb-4 Feb**	Introduction:operating system, architecture, functions. Characteristics, historical evaluation ,types:serial, batch.
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ⁿᵈWeek **9 Feb -11Feb**	Multiprogramming ,time sharing, real time, distributed and parallel, OS as resource Manager. Computer system structures:I/O structure, storage structure, storage hierarchy.
12Feb, 2023	**Sunday**
3ʳᵈ Week **16Feb -17 Feb**	. Operating sysytem structure:system components, services,system calls, system programs, system structures.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4ᵗʰ Week **23 Feb -25 Feb**	Process Management: process concepts, process state, process control block, operations, process scheduling, inter process communication.
26 Feb, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc.(CS) II
Subject- Operating System
Paper- II

March, 2023 **1ˢᵗWeek** **2 March -4 March**	CPU Scheduling: scheduling criteria, levels of sceduling ,scheduling algorithms, multiple processor scheduling,
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **16 March-18 March**	Deadlocks: Characterization, methods of handling. Deadlock detection, prevention, avoidance, recovery.
19 March,2023	**Sunday**
4ᵗʰWeek **23March-25 March**	**Assignment-1**
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **30 March- 31 March**	Storage management: memory management of single-user and multiuser operating system, partitioning.

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc.(CS) II
Subject- Operating System
Paper- II

April, 2023 **1st Week** **1 April, 2023**	Swapping, paging and segmentation, virtual memory, page replacement algorithms, thrashing.
2 April, 2023	**Sunday**
2nd Week **6 April -8 April**	Process sychronization: critical section problems, Semaphores, mutual exclusion.
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **13April -** **15April**	**Assignment-2**
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **20 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **27 April -29** **April**	Device and file management. Disk scheduling, Disk structure, disk management., File System
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- B.Sc(CS) II
Subject- Operating System
Paper- II

May, 2023 **1ˢᵗ Week** **4 May -6 May**	File System :Functions of the systems, file access and allocation methods, directory systems, structured organization, directory and file protection mechanisms.
7 May, 2023	**Sunday**
2ⁿᵈ Week **11 May -13 May**	**Revision of Syllabus and test**
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- PGDCA
Subject- Operating System
Paper- I

February,2023 **1st Week** **2 Feb-4 Feb**	Introduction:operating system,architecture,functions and Characteristics
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2ndWeek **9 Feb -11Feb**	Historical evolution of operating system, Distributed System, ,Real time Systems. O/S services, System calls,System programs.
12Feb, 2023	**Sunday**
3rd Week **16Feb -17 Feb**	CPU Scheduling: Process Concepts, Process Scheduling, Scheduling algorithms
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **23 Feb -25 Feb**	Deadlocks: Deadlocks Characterization,methods of handling.Deadlock detection and prevention,avoidance,recovery.
26 Feb, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- PGDCA
Subject- Operating System
Paper- I

March, 2023 **1st Week** **2 March -4 March**	Storage management: Storage allocation methods : Single Contiguous allocation, Multiple Contiguous allocation, Paging, Segmentation, Virtual Memory concepts, Demand Paging, Page Replacement Algorithms, Thrashing
2nd Week **5 March -12 March, 2023**	**Holi Break**
3rd Week **16 March-18 March**	File System. file access and allocation methods, directory systems, structured organization
19 March,2023	**Sunday**
4th Week **23March-25 March**	**Assignment-1**
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5th Week **30 March- 31 March**	Hardware Management: Disk Scheduling policies

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- PGDCA
Subject- Operating System
Paper- I

April, 2023 **1st Week** **1 April, 2023**	Protection: Goals of protection, principles of protection, domain of protection, access matrix and its implementation, revocation of access rights
2 April, 2023	**Sunday**
2nd Week **6 April -8 April**	Windows: Features of Windows: Various versions of Window and its use;My computer and recycle bin
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **13April -** **15April**	**Assignment-2**
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **20 April -21** **April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **27 April -29** **April**	Desktop, Icons and Windows Explorer, Dialog Boxes and toolbars; Working with files and folders; Simple operations like copy, delete, moving of files and folders from one drive to another.
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- PGDCA
Subject- Operating System
Paper- I

May, 2023 **1st Week** **4 May -6 May**	Accessories and Windows Setting using Control Panel. Linux: Linux Architecture, Features of Linux, Simple Commands in linux.
7 May, 2023	**Sunday**
2nd Week **11 May -13 May**	**Revision of syllabus** **Test**
14 May, 2023	**Sunday**
17 May,2023 Onwards	**University Examinations**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- PGDCA
Subject- Problem Solving Through 'C'
Paper- Paper-II

February,2023 **1st Week** **1Feb-4 Feb**	Programming Fundamentals: Introduction to Compiler, Assembler and Interpreter, Concept of Problem Solving, Problem definition, Program Design, Debugging
5Feb, 2023	**Guru RavidasJayanti, Sunday**
2nd Week **6Feb -11Feb**	Types of errors in programming, Documentation. Flowcharting, decision tables, algorithms, Structured Programming concepts, Programming methodologies-top-down and bottom-up programming.
12Feb, 2023	**Sunday**
3rd Week **13Feb -17 Feb**	Overview of C: History of C, Importance of C, Structure of a C program. Elements of C: C Character Set, identifiers and keywords, Data types, Constants and Variables.
18 Feb, 2023 **19 Feb,2023**	**MahaShivaratri** **Sunday**
4th Week **20Feb -25 Feb**	Operators: Arithmetic, relational, logical, bitwise, unary, assignment and conditional operators and their hierarchy and associativity.
26 Feb, 2023	**Sunday**
5th Week **27 Feb -28 Feb**	**Assignment-1**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- PGDCA
Subject- Problem Solving Through 'C'
Paper- Paper-II

March, 2023 **1ˢᵗWeek** **1March -4 March**	Input/Output: Unformatted and formatted I/O function in C Control statements: Sequencing, Selection: if and switch statement;Repetition: for, while, and do-while loop;break, continue, goto
2ⁿᵈ Week **5 March -12 March, 2023**	**Holi Break**
3ʳᵈWeek **13 March-18 March**	Functions:Definition,prototype,passing parameters, function calls, library functions, recursion. Storage classes in C: auto, extern, register and static storage class, their scope, storage and lifetime.
19 March,2023	**Sunday**
4ᵗʰWeek **20March-25 March**	Arrays: Definition, types, initialization, processing an array,passing array to functions, dynamic arrays.
23 March, 2023 **26 March, 2023**	**ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&Sukhdev** **Sunday**
30 March, 2023	**Ram Navmi**
5ᵗʰ Week **27 March- 31 March**	**Assignment-2**

KVA DAV College for Women, Karnal

Lesson Plan For The Even Semester
(February to May 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- PGDCA
Subject- Problem Solving Through 'C'
Paper- Paper-II

April, 2023 **1st Week** **1 April, 2023**	Strings: String handling, reading and writing strings, string functions, dynamic strings
2 April, 2023	**Sunday**
2nd Week **3 April -8 April**	Pointers:Declaration, operations on pointers, pointers and arrays, dynamic memory allocation
4 April, 2023 **9 April, 2023**	**MahavirJayanti** **Sunday**
3rd Week **10April -** **15April**	**Test**
14 April, 2023 **16 April, 2023**	**Vaisakhi/Dr. B.R. AmbedkarJayanti** **Sunday**
4thWeek **17 April -21 April**	**Sessional Exams**
22 April, 2023 **23 April, 2023**	**ld-Ul-Fitr/ParshuramJayanti** **Sunday**
5thWeek **24 April -29 April**	Pointers and functions, pointers and strings.
30 April, 2023	**Sunday**

KVA DAV College for Women, Karnal

Lesson Plan for the Even Semester
(February to May, 2023)

Name of the Teacher – Ms. Mandeep Kaur
Class- PGDCA
Subject- Problem Solving Through 'C'
Paper- Paper-II

May, 2023 **1st Week** **1 May -6 May**	Structure and Union: Definition, processing, Structure and pointers, passing structures to functions, Unions.
7 May, 2023	**Sunday**
2nd Week **8 May -13 May**	**Revision of Syllabus** **Test**
14 May, 2023	**Sunday**
17 May,2023 **Onwards**	**University Examinations**