

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

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Name of the Teacher – SAKSHI ANEJA

Class- BCA-III

Subject- OPERATING SYSTEM-II

Paper- BCA-362

April, 2023 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> 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	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April - 21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> 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	<b>Sunday</b>
May, 2023 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> Week 8 May - 13 May	Control Structures, Creating & Executing Shell Programs in Linux.  Previous Years question papers discussed
14 May, 2023	<b>Sunday</b>
17 May, 2023 Onwards	<b>University Examinations</b>

# 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

2 <sup>nd</sup> Week 7 Feb - 11 Feb	Introduction to Unix/Linux: Evolution of Unix/Linux, Unix/Linux distributions, Linux/Unix operating system,
12 Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> 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	<b>Maha Shivaratri</b> <b>Sunday</b>
4 <sup>th</sup> Week 20 Feb - 25 Feb	File oriented commands, directory oriented commands,
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb - 28 Feb	Communication-oriented commands, process oriented commands and other commonly used commands.
March, 2023 1 <sup>st</sup> Week 1 March - 4 March	Regular expressions & Filters in Linux: Regular expressions and their use, Simple filters viz. more, wc, diff,
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> 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	<b>Sunday</b>
4 <sup>th</sup> 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	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b> <b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March - 31 March	Processes in Linux : starting and stopping processes

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

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

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Name of the Teacher – NEHA SHARMA

Class- BCA-II

Subject- ADVANCED DATA STRUCTURES

Paper- BCA-241

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

# 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 1 <sup>st</sup> Week 1 Feb - 4 Feb	Introduction to E-Commerce:-Business operations; E-commerce practices vs. traditional business practices
5 Feb, 2023	<b>Guru Ravidas Jayanti , Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
3 <sup>rd</sup> Week 13 Feb - 17 Feb	Principles of E-Commerce, Benefits and Limitations of E-Commerce. Management Issues relating to e-commerce.
18 Feb, 2023 19 Feb, 2023	<b>Maha Shivaratri Sunday</b>
4 <sup>th</sup> Week 20 Feb - 25 Feb	Operations of E-commerce: Credit card transaction; Secure Hypertext Transfer Protocol (SHTTP);
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1 March - 4 March	Applications in governance: EDI in governance; E-government; E-Governance applications of Internet;
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> 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	<b>Sunday</b>
4 <sup>th</sup> 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	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March - 31 March	Products in b2c model; success factors of e-brokers; Broker-based services on-line;

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Name of the Teacher – NEHA SHARMA

Class- BCA-II

Subject- E-Commerce

Paper- BCA-243

April, 2023 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> 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	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April - 21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> 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	<b>Sunday</b>
May, 2023 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
17 May, 2023 Onwards	<b>University Examinations</b>



# KVA DAV College for Women, Karnal

## 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

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

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Name of the Teacher – NEHA SHARMA

Class- PGDCA

Subject- DATA STRUCTURES

Paper- CS-DE-13

February, 2023 1 <sup>st</sup> Week 1 Feb - 4 Feb	Header List, Two – Way List
5 Feb, 2023	<b>Guru Ravidas Jayanti , Sunday</b>
2 <sup>nd</sup> Week 6 Feb - 11 Feb	Trees: Binary Trees, Representation of binary trees in memory,
12 Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> Week 13 Feb - 17 Feb	Threaded Binary Trees, Balanced Tree, Different tree traversal algorithms using recursion
18 Feb, 2023 19 Feb, 2023	<b>Maha Shivaratri Sunday</b>
4 <sup>th</sup> Week 20 Feb - 25 Feb	Different tree traversal algorithms using Stack,
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb - 28 Feb	Problems taken from Students
March, 2023 1 <sup>st</sup> Week 1 March - 4 March	Binary Search Tree: Searching, Insertion,
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> 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	<b>Sunday</b>
4 <sup>th</sup> Week 20 March - 25 March	Heap Sort-Creation of Heap,Insertion,Deletion
23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March - 31 March	Graph-Representation of Graphs and Applications: Adjacency Matrix,

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Name of the Teacher – NEHA SHARMA

Class- PGDCA

Subject- DATA STRUCTURES

Paper- CS-DE-13

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

# KVA DAV College for Women, Karnal

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

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

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

# 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

2 <sup>nd</sup> Week 7 Feb - 11 Feb	Unit-1:- Introduction to Java: Importance and features of Java, Java virtual machine,
12 Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> Week 13 Feb - 17 Feb	Byte code, JDK, Keywords, constants, variables and Data Types, Operators and Expressions,
18 Feb, 2023 19 Feb, 2023	<b>Maha Shivaratri</b> <b>Sunday</b>
4 <sup>th</sup> 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	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb - 28 Feb	creating objects, constructors, class inheritance. Arrays and String: Creating an array, one and two dimensional arrays,
March, 2023 1 <sup>st</sup> Week 1 March - 4 March	string array and methods Unit-II Packages and interfaces, Exception Handling: Fundamentals exception types, uncaught exceptions, throw exception
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> 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	<b>Sunday</b>
4 <sup>th</sup> Week 20 March - 25 March	Runnable interface, inter thread Communication, suspending, resuming and stopping threads
23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March - 31 March	Unit-III I/O Streams: String and String Buffer classes, Wrapper classes: Basic Types

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Name of the Teacher – HARBINDER KAUR

Class- M.Sc-I

Subject- JAVA PROGRAMMING

Paper- MS-15-21

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

# 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

February, 2023 1 <sup>st</sup> Week 1 Feb - 4 Feb	Introduction to Computer Graphics and its applications, Components and working of Interactive Graphics.
5 Feb, 2023	<b>Guru Ravidas Jayanti , Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
3 <sup>rd</sup> 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 19 Feb, 2023	<b>Maha Shivaratri Sunday</b>
4 <sup>th</sup> Week 20 Feb - 25 Feb	Touch Panels; Voice systems; printers, plotters.
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb - 28 Feb	Graphics Software; Coordinate Representations.
March, 2023 1 <sup>st</sup> Week 1 March - 4 March	Drawing Geometry: Symmetrical and Simple DDA line drawing algorithm, Bresenham's line Algorithm; loading frame buffer.
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> 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	<b>Sunday</b>
4 <sup>th</sup> Week 20 March - 25 March	Generation of ellipse; parametric representation of cubic curves, drawing Bezier curves.



# 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

23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March - 31 March	Filled-Area Primitives: Flood fill algorithm, Boundary fill algorithm, Scan-line polygon fill algorithm.
April, 2023 1 <sup>st</sup> Week 1 April, 2023	2-D Transformations: translation, rotation, scaling, matrix representations and homogeneous coordinates.
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> 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	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April - 21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> 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	<b>Sunday</b>

# 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 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
17 May, 2023 Onwards	<b>University Examinations</b>

# 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 1 <sup>st</sup> Week 1 Feb - 4 Feb	Relational Model Concepts, Codd's Rules for Relational Model.
5 Feb, 2023	<b>Guru Ravidas Jayanti , Sunday</b>
2 <sup>nd</sup> Week 6 Feb - 11 Feb	Relational Algebra:-Selection and Projection, Set Operation, Renaming
12 Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> Week 13 Feb - 17 Feb	Join and Division, Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus.
18 Feb, 2023 19 Feb, 2023	<b>Maha Shivaratri Sunday</b>
4 <sup>th</sup> Week 20 Feb - 25 Feb	Functional Dependencies and Normalization:-Purpose, Data Redundancy and Update Anomalies.
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb - 28 Feb	Functional Dependencies:-Full Functional Dependencies and Transitive Functional Dependencies
March, 2023 1 <sup>st</sup> Week 1 March - 4 March	Characteristics of Functional Dependencies, Decomposition.
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March - 18 March	Normal Forms (1NF, 2NF, 3NF & BCNF).
19 March, 2023	<b>Sunday</b>
4 <sup>th</sup> 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	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March - 31 March	Basic DDL, DML and DCL commands in SQL, Simple Queries.
April, 2023 1 <sup>st</sup> Week 1 April, 2023	Nested Queries
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April - 8 April	Tables, Views, Indexes, Aggregate Functions, Clauses.
4 April, 2023 9 April, 2023	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10 April - 15 April	PL/SQL architecture, PL/SQL and SQL*Plus, PL/SQL Basics.
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April - 21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April - 29 April	Advantages of PL/SQL, The Generic PL/SQL Block: PL/SQL Execution Environment.
30 April, 2023	<b>Sunday</b>

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

# 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 1 <sup>st</sup> Week 1 Feb - 4 Feb	Collections: Adding, Removing, Counting, Returning Items in a Collection, Processing a Collection;
5 Feb, 2023	<b>Guru Ravidas Jayanti , Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
3 <sup>rd</sup> 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	<b>Maha Shivaratri Sunday</b>
4 <sup>th</sup> Week 20 Feb - 25 Feb	Example using Forms, Programs in VB using Forms
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb - 28 Feb	Working with Menu: Menu Designing in VB, Adding a Menu to a Form
March, 2023 1 <sup>st</sup> 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.
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> 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	<b>Sunday</b>
4 <sup>th</sup> 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	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10 April - 15 April	Working with Graphics: Using Paint, Line, Circle, Manipulating Graphics
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April - 21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April - 29 April	Program Development in VB using Files and Graphics
30 April, 2023	<b>Sunday</b>

# **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**

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



# 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 6<sup>th</sup> )

Subject-Computers

Paper- BCA-Internet Technologies

<b>February,2023</b> <b>1<sup>st</sup> Week</b> <b>1Feb-4 Feb</b>	Internet: Introduction; History; Internet Services; TCP/IP: Architecture, Layers,
<b>5Feb, 2023</b>	<b>Guru RavidasJayanti, Sunday</b>
<b>2<sup>nd</sup>Week</b> <b>6Feb -11Feb</b>	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,
<b>12Feb, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>13Feb -17 Feb</b>	Web Browsers, Chat & Bulletin Board, USENET & NNTP (Network News Transfer Protocol); Internet vs. Intranet;
<b>18 Feb, 2023</b> <b>19 Feb,2023</b>	<b>MahaShivaratri</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20Feb -25 Feb</b>	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;
<b>26 Feb, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>27 Feb -28 Feb</b>	Remote Procedure Call; IP Address Resolution- DNS; Domain Name Space; DNS Mapping;

# 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 6<sup>th</sup>)

Subject-Computers

Paper- BCA-Internet Technologies

March, 2023 1 <sup>st</sup> Week 1March -4 March	Recursive and Iterative Resolution; Mapping Internet Addresses to Physical Addresses: ARP, RARP, DHCP; ICMP; IGMP;
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Application Layer: Electronic Mail: Architecture; Protocols - SMTP, MIME, POP, IMAP; Web Based Mail
19 March, 2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	File Access and Transfer: FTP, Anonymous
23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 6<sup>th</sup> )

Subject-Computers

Paper- BCA-Internet Technologies

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

# 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 6<sup>th</sup> )

Subject-Computers

Paper- BCA-Internet Technologies

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

# 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 2<sup>nd</sup> )

Subject-Computers

Paper-Paper-I(Programming in C)

February,2023 1 <sup>st</sup> Week 1Feb	Overview of C: History & Importance of C, Structure of a C Program.
5Feb, 2023 2 <sup>nd</sup> Week 6Feb -8Feb	<b>Guru RavidasJayanti, Sunday</b> Elements of C: C character set, identifiers and keywords, Data types, Constants and Variables
12Feb, 2023 3 <sup>rd</sup> Week 13Feb -15 Feb	<b>Sunday</b> Assignment statement, Symbolic constant.
18 Feb, 2023 19 Feb,2023	<b>MahaShivaratri</b> <b>Sunday</b>
4 <sup>th</sup> 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	<b>Sunday</b>
5 <sup>th</sup> 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 2<sup>nd</sup> )

Subject-Computers

Paper-Paper-I(Programming in C)

March, 2023 1 <sup>st</sup> Week 1March	conditional operators and special operators. Arithmetic expressions, evaluation of arithmetic expression
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 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	<b>Sunday</b>
4 <sup>th</sup> Week 20March-22 March	Nested IF statement, ELSE-IF ladder, switch statement, goto statement.
23 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March- 29 March	Decision making & looping: For, while, and do-while loop, jumps in loops, break, continue statement.

# 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 2<sup>nd</sup> )  
Subject-Computers  
Paper-Paper-I(Programming in C)

April, 2023	
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -5 April	Functions: Definition, prototype, passing parameters, recursion
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> 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	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -26 April	Arrays: Definition, types, initialization,
30 April, 2023	<b>Sunday</b>

# 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 2<sup>nd</sup> )

Subject-Computers

Paper-Paper-I(Programming in C)

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



# 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 2<sup>nd</sup> )

Subject-Computers

Paper- II(Logical Organisation of Computers)

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

# 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 2<sup>nd</sup> )

Subject-Computers

Paper- II(Logical Organisation of Computers)

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

# 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 2<sup>nd</sup> )

Subject-Computers

Paper- II(Logical Organisation of Computers)

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

# 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 2<sup>nd</sup> )

Subject-Computers

Paper- II(Logical Organisation of Computers)

May, 2023 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> Week 11 May -13 May	Revision of all Syllabus
14 May, 2023	<b>Sunday</b>
17 May,2023 Onwards	<b>University Examinations</b>

# 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 2<sup>nd</sup> )

Subject-Computers

Paper- Computer Awareness (Level-1)

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

# 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 2<sup>nd</sup> )

Subject-Computers

Paper- Computer Awareness (Level-1)

March, 2023 1 <sup>st</sup> Week 1March -4 March	Creating, Editing & Formatting Document, Spell Checking, Printing, Views,
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Tables, Word Art, Mail Merge, Macros.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	<b>Spread Sheet:</b> Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus, Manipulation of cells:
23 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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

# 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 2<sup>nd</sup> )

Subject-Computers

Paper- Computer Awareness (Level-1)

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

# 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 2<sup>nd</sup> )

Subject-Computers

Paper- Computer Awareness (Level-1)

May, 2023 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> Week 8 May -13 May	Revision of all Syllabus
14 May, 2023	<b>Sunday</b>
17 May,2023 Onwards	<b>University Examinations</b>



# 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 SYSTEMS

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

**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	<b>Guru RavidasJayanti, Sunday</b>
2ndWeek 6Feb -11Feb	Introduction to Data Models
12Feb, 2023	<b>Sunday</b>
3rd Week 13Feb -17 Feb	Case studies: Inventory System
18 Feb, 2023 19 Feb,2023	<b>MahaShivaratri</b> <b>Sunday</b>
4th Week 20Feb -25 Feb	Payroll System
26 Feb, 2023	<b>Sunday</b>
5th Week 27 Feb -28 Feb	Reservation System, Online Book Store etc.

# 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

<b>March, 2023</b> <b>1<sup>st</sup>Week</b> <b>1March -4 March</b>	Comparison between Hierarchical, Network and Relational models.
<b>2<sup>nd</sup> Week</b> <b>5 March -12</b> <b>March, 2023</b>	<b>Holi Break</b>
<b>3<sup>rd</sup>Week</b> <b>13 March-18</b> <b>March</b>	Relational Algebra- Query Language, Basic Set Operations, Special Relational Operations,
<b>19 March,2023</b>	<b>Sunday</b>
<b>4<sup>th</sup>Week</b> <b>20March-25</b> <b>March</b>	Introduction to SQL: DDL, DML, and DCL Commands, Views& Queries in SQL, Specifying Constraints & Indexes in SQL.
<b>23 March, 2023</b>	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
<b>26 March, 2023</b>	<b>Sunday</b>
<b>30 March, 2023</b>	<b>Ram Navmi</b>
<b>5<sup>th</sup> Week</b> <b>27 March- 31</b> <b>March</b>	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 1 <sup>st</sup> Week 1 April, 2023	Normalization- Normal forms based on primary keys (1 NF,2 NF)
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -8 April	3 NF, & BCNF
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10April - 15April	MS Access: Parts of an Access Window, Tool Bars and Their Icons
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	Creating a New Database, Creating a Database through Table Wizard, Creating a New Table, Relationships
30 April, 2023	<b>Sunday</b>

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

## 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 4<sup>th</sup> Semester

February, 2023 1 <sup>st</sup> Week 1 Feb-4 Feb	Computational Model: Basic computational models, evolution and interpretation of computer architecture
5 Feb, 2023	<b>Guru Ravidas Jayanti, Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
3 <sup>rd</sup> 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	<b>MahaShivaratri Sunday</b>
4 <sup>th</sup> Week 20Feb -25 Feb	Principle and general structure of pipelines, performance measures of pipeline
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> 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 4<sup>th</sup> Semester

March, 2023 1 <sup>st</sup> Week 1March -4 March	MIMD Architectures: Concepts of distributed and shared memory MIMD architectures
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	VLIW architecture, Code Scheduling for ILP Processors - Basic block scheduling, loop scheduling, global scheduling
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 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	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b> <b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 4<sup>th</sup> Semester

April, 2023 1 <sup>st</sup> Week 1 April, 2023	Revision
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> 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	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	Parallel execution, preserving sequential consistency of instruction execution and exception processing
30 April, 2023	<b>Sunday</b>



## 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 4<sup>th</sup> Semester

<b>May, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 May -6 May</b>	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
<b>7 May, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>8 May -13 May</b>	Revision of the whole syllabus
<b>14 May, 2023</b>	<b>Sunday</b>
<b>17 May,2023</b> <b>Onwards</b>	<b>University Examinations</b>

## 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 2<sup>nd</sup> Semester

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

March, 2023 1 <sup>st</sup> 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
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> 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	<b>Sunday</b>
4 <sup>th</sup> 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	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 2<sup>nd</sup> Semester

April, 2023 1 <sup>st</sup> Week 1 April, 2023	Revision
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> 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	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 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	<b>Sunday</b>

## 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 2<sup>nd</sup> Semester

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

## 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 2<sup>nd</sup> Semester

February, 2023 1 <sup>st</sup> Week 1 Feb-4 Feb	Sequential Logic: Characteristics, Flip-Flops, Clocked RS
5 Feb, 2023	<b>Guru Ravidas Jayanti, Sunday</b>
2 <sup>nd</sup> Week 6 Feb -11 Feb	D type Flip Flop, JK Flip Flop, T type Flip Flop, Master-Slave flip-flops
12 Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> 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	<b>MahaShivaratri Sunday</b>
4 <sup>th</sup> Week 20Feb -25 Feb	Designing counters – Asynchronous and Synchronous Binary Counters, Modulo-N Counters and Up-Down Counters
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> 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 2<sup>nd</sup> Semester

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

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



## 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 2<sup>nd</sup> Semester

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

## 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 1 <sup>st</sup> Week 1 Feb-4 Feb	<b>Operating System</b> - Definition & Functions of Operating System, Basics of Popular Operating Systems
5 Feb, 2023	<b>Guru Ravidas Jayanti, Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
3 <sup>rd</sup> Week 13 Feb -17 Feb	<b>Control panel</b> – display properties, add/remove software and hardware, Running an Application
18 Feb, 2023 19 Feb,2023	<b>Maha Shivaratri</b> <b>Sunday</b>
4 <sup>th</sup> Week 20Feb -25 Feb	Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1March -4 March	<b>Word Processing:</b> Introduction to Word Processing, Menus, Creating, Editing & Formatting Document
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	<b>Spread Sheet:</b> Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus, Manipulation of cells: Enter texts numbers and dates
23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1 April, 2023	Drawing different types of charts
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -8 April	<b>Presentation Software:</b> Creating, modifying and enhancing a presentation
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10April – 15 April	Delivering a presentation, Using sound, animation and design templates in presentation <b>Computer Communication:</b> Internet and its applications, Connecting to internet, Surfing the Internet using web browsers
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address
30 April, 2023	<b>Sunday</b>

**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**

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

# 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 1<sup>st</sup> Semester

<b>February, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 Feb-4 Feb</b>	Computability and Non-computability and examples of non-computable problems, Russel's paradox, Finite State System, Extended Transition Function
<b>5 Feb, 2023</b>	<b>Guru Ravidas Jayanti, Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>6 Feb -11 Feb</b>	Designing of DFA and NDFA, Finite Automata with E-Transitions, Equivalence of DFA and NFA with proof, Regular Expression, Laws of Regular Expressions.
<b>12 Feb, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>13 Feb -17 Feb</b>	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.
<b>18 Feb, 2023</b> <b>19 Feb, 2023</b>	<b>MahaShivaratri</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20 Feb -25 Feb</b>	Grammar: Definition, Chomsky Classification of Grammars, Construction of Context Free Grammar, Derivation
<b>26 Feb, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>27 Feb -28 Feb</b>	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 1<sup>st</sup> Semester

<b>March, 2023</b> <b>1<sup>st</sup>Week</b> <b>1March -4 March</b>	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
<b>2<sup>nd</sup> Week</b> <b>5 March -12 March, 2023</b>	<b>Holi Break</b>
<b>3<sup>rd</sup>Week</b> <b>13 March-18 March</b>	Linear Bounded Automata (LBA), Turing machines, variants of TMs, Restricted TMs, TMs and Computers. Recursive and recursively- enumerable languages and Properties.
<b>19 March,2023</b>	<b>Sunday</b>
<b>4<sup>th</sup>Week</b> <b>20March-25 March</b>	Decidability: Post's correspondence problem, Rice's theorem, decidability of membership, emptiness and equivalence problems of languages.
<b>23 March, 2023</b> <b>26 March, 2023</b>	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b> <b>Sunday</b>
<b>30 March, 2023</b>	<b>Ram Navmi</b>
<b>5<sup>th</sup> Week</b> <b>27 March- 31 March</b>	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 1<sup>st</sup> Semester

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



## 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 1<sup>st</sup> Semester

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

## 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 4<sup>th</sup> Semester

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

March, 2023 1 <sup>st</sup> Week 1March -4 March	Network Security: Threats in Network, Network Security Controls, Firewall- Need for firewall, Characteristics
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Types of firewall, Firewall Basing, Intrusion Detection System- Types, Goals of IDS, IDS strengths and Limitations.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	Internet Security Protocols and Standards: Secure Socket Layer (SSL) and Transport Layer Security (TLS),
23 March, 2023 26 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b> <b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 4<sup>th</sup> Semester

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

# 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 4<sup>th</sup> Semester

<b>May, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 May -6 May</b>	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.
<b>7 May, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>8 May -13 May</b>	Revision of the whole syllabus
<b>14 May, 2023</b>	<b>Sunday</b>
<b>17 May,2023</b> <b>Onwards</b>	<b>University Examinations</b>

## 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 6<sup>th</sup> Semester

February, 2023 1 <sup>st</sup> Week 1 Feb-4 Feb	Introduction to Computer Graphics; Interactive and Passive Graphics; Applications of Computer Graphics
5 Feb, 2023	<b>Guru Ravidas Jayanti, Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
3 <sup>rd</sup> 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	<b>MahaShivaratri</b> <b>Sunday</b>
4 <sup>th</sup> Week 20Feb -25 Feb	Interactive Input Devices, Display Processor, General Purpose Graphics Software, Coordinate Representations;
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> 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 6<sup>th</sup> Semester

March, 2023 1 <sup>st</sup> Week 1March -4 March	Point-Plotting Techniques: Scan Conversion, Scan-Converting a Straight Line: The Symmetrical DDA, The Simple DDA
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> 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	<b>Sunday</b>
4 <sup>th</sup> 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	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 6<sup>th</sup> Semester

April, 2023 1 <sup>st</sup> Week 1 April, 2023	Revision of Unit II
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -8 April	Other Transformations: Reflection, Shearing; Coordinate Transformations; Composite Transformations
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10April – 15 April	nverse Transformation; Affine Transformations; Raster Transformation; Graphical Input: Pointing and Positioning Devices and Techniques
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 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	<b>Sunday</b>



## 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 6<sup>th</sup> Semester

<b>May, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 May -6 May</b>	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;
<b>7 May, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>8 May -13 May</b>	Revision of the whole syllabus
<b>14 May, 2023</b>	<b>Sunday</b>
<b>17 May,2023</b> <b>Onwards</b>	<b>University Examinations</b>

## 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 1 <sup>st</sup> Week 1 Feb-4 Feb	<b>Operating System</b> - Definition & Functions of Operating System, Basics of Popular Operating Systems
5 Feb, 2023	<b>Guru Ravidas Jayanti, Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
3 <sup>rd</sup> Week 13 Feb -17 Feb	<b>Control panel</b> – display properties, add/remove software and hardware, Running an Application
18 Feb, 2023 19 Feb,2023	<b>Maha Shivaratri</b> <b>Sunday</b>
4 <sup>th</sup> Week 20Feb -25 Feb	Using help; Creating Short cuts, Basics of O.S Setup; Common utilities.
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1March -4 March	<b>Word Processing:</b> Introduction to Word Processing, Menus, Creating, Editing & Formatting Document
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	<b>Spread Sheet:</b> Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus, Manipulation of cells: Enter texts numbers and dates
23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1 April, 2023	Drawing different types of charts
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -8 April	<b>Presentation Software:</b> Creating, modifying and enhancing a presentation
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10April – 15 April	Delivering a presentation, Using sound, animation and design templates in presentation <b>Computer Communication:</b> Internet and its applications, Connecting to internet, Surfing the Internet using web browsers
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address
30 April, 2023	<b>Sunday</b>

**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**

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

**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 1 <sup>st</sup> Week 1Feb-4 Feb	Introduction to System and Basic System Concepts,Types of Systems,The System Approach.
5Feb, 2023	<b>Guru RavidasJayanti, Sunday</b>
2 <sup>nd</sup> Week 6Feb -11Feb	Information System:Definition and characteristics,Types of information,role of information in decision Making.
12Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> Week 13Feb -17 Feb	Subsystems of Information system:EDP and MIS management levels,EDP/MIS/DSS.
18 Feb, 2023 19 Feb,2023	<b>MahaShivaratri Sunday</b>
4 <sup>th</sup> 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	<b>Sunday</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1March - 4March	Developing Information Systems,Analysis of Information System.
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Design of Information System.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 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**

<b>23 March, 2023 26 March, 2023</b>	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev Sunday</b>
<b>30 March, 2023</b>	<b>Ram Navmi</b>
<b>5<sup>th</sup> Week 27 March- 31 March</b>	Pitfalls in MIS Development.
<b>April, 2023 1<sup>st</sup> Week 1 April, 2023</b>	Functional MIS: A study of personnel, Financial MIS.
<b>2 April, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week 3 April -8 April</b>	Production MIS, Introduction to E-Business Systems.
<b>4 April, 2023 9 April, 2023</b>	<b>Mahavir Jayanti Sunday</b>
<b>3<sup>rd</sup> Week 10 April - 15 April</b>	E-commerce-Technologies.
<b>14 April, 2023 16 April, 2023</b>	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti Sunday</b>
<b>4<sup>th</sup> Week 17 April -21 April</b>	<b>Sessional Exams</b>
<b>22 April, 2023 23 April, 2023</b>	<b>Id-UI-Fitr/Parshuram Jayanti Sunday</b>
<b>5<sup>th</sup> Week 24 April -29 April</b>	Applications of E-commerce.
<b>30 April, 2023</b>	<b>Sunday</b>

**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**

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



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

**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 programming with c++

Paper- I

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

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

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

**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- Structured System Analysis and Design

Paper- BCA-125

February,2023 1 <sup>st</sup> Week 1Feb-4 Feb	System concepts:definition,characteristics.
5Feb, 2023	<b>Guru RavidasJayanti, Sunday</b>
2 <sup>nd</sup> Week 6Feb -11Feb	Elements of systems, physical and abstract systems,open and closed systems.
12Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> Week 13Feb -17 Feb	Man –made information system,SDLC.
18 Feb, 2023 19 Feb,2023	<b>MahaShivaratri Sunday</b>
4 <sup>th</sup> 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	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb -28 Feb	System planning:bases for planning in system analysis:dimensions of planning.
March, 2023 1 <sup>st</sup> Week 1March -4 March	Initial Investigation:Determining user’s requirements and analysis, fact finding process.
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Fact finding techniques.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	Tools of structured analysis,DFD,Data dictionary.
23 March, 2023 26 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev Sunday</b>

**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- Structured System Analysis and Design

Paper- BCA-125

<b>30 March, 2023</b>	<b>Ram Navmi</b>
<b>5<sup>th</sup> Week 27 March- 31 March</b>	IPO and HIPO charts.
<b>April, 2023 1<sup>st</sup> Week 1 April, 2023</b>	Gantt charts,Pseudo codes,flow charts,decision tree,decision tables.
<b>2 April, 2023</b>	<b>Sunday</b>
<b>2<sup>nd</sup> Week 3 April -8 April</b>	Feasibility study:technical,operational,economic feasibilities.
<b>4 April, 2023 9 April, 2023</b>	<b>MahavirJayanti Sunday</b>
<b>3<sup>rd</sup> Week 10April - 15April</b>	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.
<b>14 April, 2023 16 April, 2023</b>	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti Sunday</b>
<b>4<sup>th</sup>Week 17 April -21 April</b>	<b>Sessional Exams</b>
<b>22 April, 2023 23 April, 2023</b>	<b>Id-Ul-Fitr/ParshuramJayanti Sunday</b>
<b>5<sup>th</sup>Week 24 April -29 April</b>	File structures and organization,objectives of database design,logical and physical view of data. System testing:introduction,objectives of testing,test planning,testing techniques,quality assurance,goals of quality assurance.
<b>30 April, 2023</b>	<b>Sunday</b>

**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**

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

**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**

<b>February, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 Feb</b>	Introduction to internet,concept.
<b>5 Feb, 2023</b>	<b>Guru Ravidas Jayanti , Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>6 Feb - 8 Feb</b>	Application and uses of internet,Internet services.
<b>12 Feb, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>13 Feb - 15 Feb</b>	Internet services,Information technology and business.
<b>18 Feb, 2023</b> <b>19 Feb, 2023</b>	<b>Maha Shivaratri</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20 Feb - 22 Feb</b>	Concept of data,information and information system.
<b>26 Feb, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>27 Feb - 28 Feb</b>	Effect of IT on business
<b>March, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 March</b>	Types of information system.
<b>2<sup>nd</sup> Week</b> <b>6 March -</b> <b>12 March, 2023</b>	<b>Holi Break</b>
<b>3<sup>rd</sup> Week</b> <b>13 March -</b> <b>15 March</b>	TPS(Transaction Processing system), MIS(Management Information System)
<b>19 March, 2023</b>	<b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20 March -</b>	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	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March - 29 March	B2B,B2C,C2C.
April, 2023 2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April - 5 April	Electronic data Interchange.
4 April, 2023 9 April, 2023	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10 April - 12 April	Benefits of electronic data interchange.
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April - 19 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April - 26 April	Components of EDI.
30 April, 2023	<b>Sunday</b>

**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**

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

# 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

<b>February, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 Feb</b>	Relational Model Concepts, Codd's Rules for Relational Model,
<b>5 Feb, 2023</b>	<b>Guru Ravidas Jayanti , Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>6 Feb - 8 Feb</b>	Components, Example, Data Model– Introduction, Hierarchical Features
<b>12 Feb, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>13 Feb - 15 Feb</b>	Differences between Hierarchical Data Model and Network Data Model Comparison of Relational Data Model with Hierarchical Data Model and Network Data Model
<b>18 Feb, 2023</b> <b>19 Feb, 2023</b>	<b>Maha Shivaratri</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20 Feb - 22 Feb</b>	<b>Assignment-I</b> <b>Class Test</b> Relational Algebra:-Selection and Projection, Set Operation, Join and Division
<b>26 Feb, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>27 Feb - 28 Feb</b>	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 1 <sup>st</sup> Week 1 March	Functional Dependencies
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March - 15 March	Normalization -- Purpose, Data Redundancy, Update Anomalies Partial/Fully Functional Dependencies, Transitive Functional Dependencies
19 March, 2023	<b>Sunday</b>
4 <sup>th</sup> Week 20 March - 22 March	Characteristics of Functional Dependencies, Decomposition and Normal Forms (1NF, 2NF, 3NF & BCNF). <b>Class Test</b>
23 March, 2023 26 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March - 29 March	SQL: Data Definition and data types, Create Table, Insert Data, Viewing Data, Filtering Table <b>Assignment-II</b>

# 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 1 <sup>st</sup> Week 2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10 April - 12 April	Data, Sorting data, Creating Table from a Table, Destroy table, Update, View, Delete
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> 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	<b>Id-Ul-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April - 26 April	<b>Sessional Exams</b>
30 April, 2023	<b>Sunday</b>

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

# 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

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

# 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 1 <sup>st</sup> 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
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 16 March - 18 March	Satellites; Switching and Multiplexing; Modems and modulation techniques;
19 March, 2023	<b>Sunday</b>
4 <sup>th</sup> Week 23 March - 25 March	Data Link Layer Design issues; Error Detection and Correction methods; Sliding Window
23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 31 March, 2023	Protocols: One-bit, Go Back N and Selective Repeat; Media Access Control: ALOHA, Slotted  <b>Assignment-II</b>



# 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 1 <sup>st</sup> Week 1 April, 2023	ALOHA, CSMA, Collision free protocols
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 6 April - 8 April	Introduction to LAN technologies: Ethernet, Switched Ethernet, Fast Ethernet, Gigabit Ethernet
4 April, 2023 9 April, 2023	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> 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	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 20 April - 21 April	Routing, Hierarchical Routing; Congestion Control; Traffic shaping; Choke packets; Load
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 27 April - 29 April	<b>Sessional Exams</b>
30 April, 2023	<b>Sunday</b>

# 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

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

# 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

<b>February, 2023</b> <b>1<sup>st</sup> Week</b> <b>1 Feb - 4 Feb</b>	Interactivity Tool - JavaScript: Introduction, Features, Data types, Operators, Statements, Functions
<b>5 Feb, 2023</b>	<b>Guru Ravidas Jayanti , Sunday</b>
<b>2<sup>nd</sup> Week</b> <b>6 Feb - 11 Feb</b>	Event Handling, Use of Predefined Object and Methods, Frames, Windows, Tables, Images, Links
<b>12 Feb, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>13 Feb - 17 Feb</b>	Interactivity Tool - VBScript: Introduction, Features, Variables, Data Types, Numeric and Literal Constants
<b>18 Feb, 2023</b> <b>19 Feb, 2023</b>	<b>Maha Shivaratri</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20 Feb - 25 Feb</b>	Arrays, Operators, Subroutine Procedures, Function Procedures, Control Statements, Strings, Message and Input Boxes, Date and Time, Event Handlers, Embedding VBScript in HTML
<b>26 Feb, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>27 Feb - 28 Feb</b>	<b>Assignment-I</b> <b>Class Test</b> 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 1 <sup>st</sup> Week 1 March - 4 March	Decision Making Statements, Control statements, Use of Various Objects of ASP, Various Techniques of Connecting to Database
2 <sup>nd</sup> Week 5 March - 12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March - 18 March	Interactivity Tools - Macromedia Flash, Macromedia
19 March, 2023	<b>Sunday</b>
4 <sup>th</sup> Week 20 March - 25 March	Assignment-II Class Test
23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1 April, 2023	DHTML: Introduction, Features, Events, Dynamic Positioning, Layer Object, Properties of STYLE
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April - 8 April	Dynamic Styles, Inline Styles, Event Handlers; Cascading Style Sheets (CSS): Basic Concepts <b>Class Test</b>
4 April, 2023 9 April, 2023	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10 April - 15 April	Properties, Creating Style Sheets; Common Tasks with CSS: Text, Fonts, Margins, Links, Tables
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April - 21 April	Colors; Marquee; Mouseovers; Filters and Transitions; Adding Links; Adding Tables; Adding Forms <b>Assignment-II</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/Parshuram Jayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April - 29 April	<b>Sessional Exams</b>
30 April, 2023	<b>Sunday</b>

# 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 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> Week 8 May - 13 May	Revision of Syllabus Class Test
14 May, 2023	<b>Sunday</b>
17 May, 2023 Onwards	<b>University Examinations</b>

# 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

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

# 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 1 <sup>st</sup> Week 1March -4 March	<b>Word Processing:</b> Introduction to Word Processing, Menus, Creating, Editing & Formatting Document
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	<b>Spread Sheet:</b> Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus,
23 March, 2023 26 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1 April, 2023	<b>Presentation Software:</b> Creating, modifying and enhancing a presentation,
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -8 April	Delivering a presentation, Using sound, animation and design templates in presentation
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10April - 15April	<b>Computer Communication:</b> Internet and its applications, Connecting to internet, Surfing the Internet using web browsers
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	<b>Sessional Exams</b>
30 April, 2023	<b>Sunday</b>

# 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

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

# 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 1 <sup>st</sup> Week 1Feb-4 Feb	Basic Principles of Object Oriented Programming, Introduction To Java, History and Features of Java.
5Feb, 2023	<b>Guru RavidasJayanti, Sunday</b>
2 <sup>nd</sup> Week 6Feb -11Feb	Java Virtual Machine (JVM), Java's Magic Bytecode, The Java Runtime Environment.
12Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> Week 13Feb -17 Feb	Basic language elements, Lexical tokens, Identifiers,Keywords, Literals, Comments, Primitive Data Types.
18 Feb, 2023 19 Feb,2023	<b>MahaShivaratri Sunday</b>
4 <sup>th</sup> Week 20Feb -25 Feb	Operators,Assignment, Input /output in Java:Basics,I/O Classes , Reading Console Input.
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb -28 Feb	Control Structures in Java: Decision and Loop Control Statements.
March, 2023 1 <sup>st</sup> Week 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.
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 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	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	Defining String, Operation o Array and String , Creating Strings Using String Class, Creating String using String Buffer Class.
23 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> 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	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 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	<b>Sunday</b>
May, 2023 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>Sunday</b>
17 May,2023 Onwards	<b>University Examinations</b>

# 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 1 <sup>st</sup> 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	<b>Guru RavidasJayanti, Sunday</b>
2 <sup>nd</sup> Week 6Feb -11Feb	Introduction To Pagemaker , Features, Sytem Requirements, Components of Page maker,Introduction to Menu and Toolbars , Pagemaker Preferences.
12Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> 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	<b>MahaShivaratri Sunday</b>
4 <sup>th</sup> Week 20Feb -25 Feb	Hyphenation, Header & Footer, Page Numbering, Saving and Closing Publication.
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1March -4 March	Introduction to Office Automation, Creating & Editing Document, Formatting Document, Auto Text , Auto Correct,Spelling and Grammar Tool.
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Document Dictionary, Page Formatting, Bookmark, Advance Features of word- Mail merge.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 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	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
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	<b>Sunday</b>
2nd Week 3 April -8 April	Organizational charts, excel charts, word art, clip art, shapes.
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3rd Week 10April - 15April	Layering Art Objects, Animations and sounds
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4thWeek 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5thWeek 24 April -29 April	Inserting animated pictures or accessing through object.
30 April, 2023	<b>Sunday</b>
May, 2023 1st Week 1 May -6 May	Inserting Recorded Sound Effect or inbuilt Sound Effect.
7 May, 2023	<b>Sunday</b>

# 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

<b>2<sup>nd</sup> Week</b> <b>8 May -13 May</b>	Formatting of PowerPoint and various types
<b>14 May, 2023</b>	<b>Sunday</b>
<b>17 May,2023</b> <b>Onwards</b>	<b>University Examinations</b>

# 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 & Commerce

Paper- MC401

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



# 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 & Commerce

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

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

Name of the Teacher – Ms. Leena

Class- PGDCA

Subject-Computers

Paper-CS-DE-11COMPUTERORGANIZATION& NETWORKINGFUNDAMENTALS

<b>4th Week</b> 22 Nov -26Nov	Block diagram of a digital computer, classification, hardware, software.
27 Nov,2022	<b>Sunday</b>
<b>5th Week</b> 28Nov –3 Dec	I/O devices, storage devices – hard disk, pendrive, optical devices.
4 Dec, 2022	<b>Sunday</b>
<b>2nd Week</b> 5Dec-10Dec	Information representation - Number Systems.
11 Dec, 2022	<b>Sunday</b>
<b>3rd Week</b> 12-17Dec,2022	Conversion from one number system to another number system, Integer Representation – sign magnitude, 1's complement.
18 Dec, 2022	<b>Sunday</b>
<b>4th Week</b> 19-24Dec,2022	2's complement, BCD codes. Floating-point Representation.
25 Dec,2022	<b>Christmas day</b>
<b>5th Week</b> 26-31 Dec,2022	Binary arithmetic – addition, subtraction, multiplication, division.
29 Dec,2022	<b>Guru Gobind Singh Jayanti</b>
1 Jan, 2023	<b>Sunday</b>
<b>1st Week</b> 2-7 Jan,2023	Boolean Functions: Boolean algebra.
8 Jan, 2023	<b>Sunday</b>
<b>2nd Week</b> 9-14 Jan,2023	Truth tables, Logic gates.

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

Name of the Teacher – Ms. Leena

Class- PGDCA

Subject-Computers

Paper-CS-DE-11COMPUTERORGANIZATION& NETWORKINGFUNDAMENTALS

15 Jan, 2023	<b>Sunday</b>
3rd Week 16-21 Jan,2023	Canonical representation of Boolean functions, simplification of Boolean expressions – Karnaugh Maps.
22 Jan, 2023	<b>Sunday</b>
26 Jan, 2023	<b>Republic Day</b>
4th Week 23-28 Jan,2023	QuineMcCluskey procedur, Combinational Circuits: Half adder, full adder.
5th Week 30-31 Jan,2023	Half subtractor, full subtractor, parallel binary adder.
February,2023 1 <sup>st</sup> Week 1Feb-4 Feb	BCD adder, code converter, decoder, encoder, multiplexer..
5Feb, 2023	<b>Guru Ravidas Jayanti, Sunday</b>
2 <sup>nd</sup> Week 6Feb -11Feb	Demultiplexer
12Feb, 2023	<b>Sunday</b>
3 <sup>rd</sup> Week 13Feb -17 Feb	Sequential Circuits: Flip-flops – synchronous & asynchronous basic flip flops.
18 Feb, 2023 19 Feb,2023	<b>MahaShivaratri Sunday</b>
4 <sup>th</sup> Week 20Feb -25 Feb	D-type & T-type flip flops, JK flipflop.
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb -28 Feb	Master-slave flipflop.

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

Name of the Teacher – Ms. Leena

Class- PGDCA

Subject-Computers

Paper-CS-DE-11COMPUTERORGANIZATION& NETWORKINGFUNDAMENTALS

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

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

Name of the Teacher – Ms. Leena

Class- PGDCA

Subject-Computers

Paper-CS-DE-11COMPUTERORGANIZATION& NETWORKINGFUNDAMENTALS

3 <sup>rd</sup> Week 10 April - 15 April	Network interface cards and PC cards, bridges, switches, routers, gateways.
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. Ambedkar Jayanti Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/Parshuram Jayanti Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	Introduction to the Internet, concepts of Internet and Intranet; IP addresses, DNS; Internet Services; E-mail; File transfer and FTP; Remote login using
30 April, 2023	<b>Sunday</b>
May, 2023 1 <sup>st</sup> Week 1 May -6 May	TELNET; World Wide Web and HTTP, Web Browsers, Search Engines, Uniform Resource Locator, Web Servers, Inter-connections, Dialup, Leased Line, Modems, DSL service, Internet Service Provider.
7 May, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 8 May -13 May	Revision of all Syllabus
14 May, 2023	<b>Sunday</b>
17 May, 2023 Onwards	<b>University Examinations</b>

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

# 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

3 <sup>rd</sup> Week 13 March-18 March	Pointers and arrays, Pointers and functions, Pointers and strings, Pointer to pointer, dynamic allocation using pointers.
19 March, 2023	<b>Sunday</b>
4 <sup>th</sup> Week 20 March-25 March	Files: Introduction, File types, File operations, File I/O.
23 March, 2023	<b>Shaheedi Diwas/Martyrdom Day of Bhagat Singh, Rajguru &amp; Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March- 31 March	Structure Read and write in a file.
April, 2023 1 <sup>st</sup> Week 1 April, 2023	Errors in file handling, Random-access I/O in files.
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -8 April	Command line argument, reading a file.
4 April, 2023 9 April, 2023	<b>Mahavir Jayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10 April -15 April	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	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	#include, Conditional compilation directives, undefining a macro. Command line arguments: defining and using command line arguments.
30 April, 2023	<b>Sunday</b>
May, 2023 1 <sup>st</sup> Week 1 May -6 May	Command line arguments: defining and using command line arguments.
2 <sup>nd</sup> Week 8 May -13 May	Revision
14 May, 2023	<b>Sunday</b>
17 May,2023 Onwards	<b>University Examinations</b>



# 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

<b>February,2023</b> <b>1<sup>st</sup> Week</b> <b>1Feb-4 Feb</b>	Web Browsers, Caching, Downloading and Rendering, Persistent Connections, DNS Caching and Prefetching, CSS Expressions and Performance, Buffering, Weblog.
<b>5Feb, 2023</b>	<b>Guru RavidasJayanti, Sunday</b>
<b>2<sup>nd</sup>Week</b> <b>6Feb -11Feb</b>	Optimization and Security, Parallel Downloading, Controlling Caches, Content Compression, Control Size with minification, Optimizing images, Load balancers, Tuning, MySQL.
<b>12Feb, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>13Feb -17 Feb</b>	Using query caching, Optimizing query execution and optimization, Marketing of website, traffic generation, Newsletter, Security, SQL query log, SQL injections.
<b>18 Feb, 2023</b> <b>19 Feb,2023</b>	<b>MahaShivaratri</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20Feb -25 Feb</b>	Searching techniques used by search engines, Keywords, advertisements, Search engine optimization for individual web pages, header entries, tags, selection of URL.
<b>26 Feb, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>27 Feb -28 Feb</b>	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 1 <sup>st</sup> Week 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.
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 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	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	Intoduction, Obtaining user inputs, memory concepts, Operators, Control Structures, Looping constructs, break.
23 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> Week 27 March- 31 March	Continue statements, Programmer defined functions, Scoping rules, Recursion and iteration, Array declaration and allocation.
April, 2023 1 <sup>st</sup> Week 1 April, 2023	Passing array to function, Objects: String, Date, Boolean, Window, document, using cookies, Handling Events Using JavaScript.
2 April, 2023	<b>Sunday</b>

# 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

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

# 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 1 <sup>st</sup> Week 1 May -6 May	using cookies, dynamic contents
7 May, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 8 May -13 May	Revision
14 May, 2023	<b>Sunday</b>
17 May,2023 Onwards	<b>University Examinations</b>

# 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)

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

# 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 1 <sup>st</sup> Week 1March -4 March	<b>Word Processing:</b> Introduction to Word Processing, Menus, Creating, Editing & Formatting Document
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-18 March	Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	<b>Spread Sheet:</b> Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus,
23 March, 2023 26 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b> <b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1 April, 2023	<b>Presentation Software:</b> Creating, modifying and enhancing a presentation, Delivering a presentation, Using sound, animation and design templates in presentation
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -8 April	Assignment-2
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10April - 15April	<b>Computer Communication:</b> Internet and its applications, Connecting to internet, Surfing the Internet using web browsers
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	Web Browsing softwares, Search Engines, Understanding URL, Domain name, IP Address,
30 April, 2023	<b>Sunday</b>

# 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)

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



# 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 1 <sup>st</sup> Week 1Feb	Object oriented programming: object oriented programming features and benefits, object oriented features of c++ , class and objects.
5Feb, 2023	<b>Guru RavidasJayanti, Sunday</b>
2 <sup>nd</sup> Week 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	<b>Sunday</b>
3 <sup>rd</sup> 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	<b>MahaShivaratri Sunday</b>
4 <sup>th</sup> Week 20Feb -22Feb	Constructor,initialization using constructor,types of constructor- default,parameterized & copy constructor ,Destructors
26 Feb, 2023	<b>Sunday</b>
5 <sup>th</sup> Week 27 Feb -28 Feb	<b>Assignment-1</b>

# 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 1 <sup>st</sup> Week 1 March	Console I/O: Hierachy of Console Stream Classes, Unformatted and formatted I/O operations.
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 13 March-15 March	Manipualtors, Friend function, Friend class, Arrays, Arrays of objects, passing and returning objects to functions.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 20March-22 March	String handling in C++, Dynamic memory management: Pointers ,New and delete operator, Arrays of Pointers to objects,
23 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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	<b>Sunday</b>
April, 2023 2 <sup>nd</sup> Week 3 April -5 April	Assignment-2
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10April -12April	Static polymorphism: Operators in C++, Precedence and Associativity rules.
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -26 April	Operator overloading, Unary and Binary operator overloading.
30 April, 2023	<b>Sunday</b>

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

# 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

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

# 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 1 <sup>st</sup> Week 2 March -4 March	CPU Scheduling: scheduling criteria, levels of scheduling ,scheduling algorithms, multiple processor scheduling,
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 16 March-18 March	Deadlocks: Characterization, methods of handling. Deadlock detection, prevention, avoidance, recovery.
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 23March-25 March	<b>Assignment-1</b>
23 March, 2023 26 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1 April, 2023	Swapping, paging and segmentation, virtual memory, page replacement algorithms, thrashing.
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 6 April -8 April	Process synchronization: critical section problems, Semaphores, mutual exclusion.
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 13April - 15April	Assignment-2
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 20 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-UI-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 27 April -29 April	Device and file management. Disk scheduling, Disk structure, disk management., File System
30 April, 2023	<b>Sunday</b>

# 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 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> Week 11 May -13 May	Revision of Syllabus and test
14 May, 2023	<b>Sunday</b>
17 May,2023 Onwards	<b>University Examinations</b>



# 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

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

# 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 1 <sup>st</sup> 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
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 16 March-18 March	File System. file access and allocation methods, directory systems, structured organization
19 March,2023	<b>Sunday</b>
4 <sup>th</sup> Week 23March-25 March	Assignment-1
23 March, 2023 26 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> 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	<b>Sunday</b>
2 <sup>nd</sup> 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	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 13April - 15April	<b>Assignment-2</b>
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 20 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 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	<b>Sunday</b>

# 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

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

# 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

<b>February,2023</b> <b>1<sup>st</sup> Week</b> <b>1Feb-4 Feb</b>	Programming Fundamentals: Introduction to Compiler, Assembler and Interpreter, Concept of Problem Solving, Problem definition, Program Design, Debugging
<b>5Feb, 2023</b>	<b>Guru RavidasJayanti, Sunday</b>
<b>2<sup>nd</sup>Week</b> <b>6Feb -11Feb</b>	Types of errors in programming, Documentation. Flowcharting, decision tables, algorithms, Structured Programming concepts, Programming methodologies-top-down and bottom-up programming.
<b>12Feb, 2023</b>	<b>Sunday</b>
<b>3<sup>rd</sup> Week</b> <b>13Feb -17 Feb</b>	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.
<b>18 Feb, 2023</b> <b>19 Feb,2023</b>	<b>MahaShivaratri</b> <b>Sunday</b>
<b>4<sup>th</sup> Week</b> <b>20Feb -25 Feb</b>	Operators: Arithmetic, relational, logical, bitwise, unary, assignment and conditional operators and their hierarchy and associativity.
<b>26 Feb, 2023</b>	<b>Sunday</b>
<b>5<sup>th</sup> Week</b> <b>27 Feb -28 Feb</b>	<b>Assignment-1</b>

# 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 1 <sup>st</sup> Week 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
2 <sup>nd</sup> Week 5 March -12 March, 2023	<b>Holi Break</b>
3 <sup>rd</sup> Week 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	<b>Sunday</b>
4 <sup>th</sup> Week 20March-25 March	Arrays: Definition, types, initialization, processing an array,passing array to functions, dynamic arrays.
23 March, 2023	<b>ShaheediDiwas/Martyrdom Day of Bhagat Singh, Rajguru&amp;Sukhdev</b>
26 March, 2023	<b>Sunday</b>
30 March, 2023	<b>Ram Navmi</b>
5 <sup>th</sup> 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 1 <sup>st</sup> Week 1 April, 2023	Strings: String handling, reading and writing strings, string functions, dynamic strings
2 April, 2023	<b>Sunday</b>
2 <sup>nd</sup> Week 3 April -8 April	Pointers:Declaration, operations on pointers, pointers and arrays, dynamic memory allocation
4 April, 2023 9 April, 2023	<b>MahavirJayanti</b> <b>Sunday</b>
3 <sup>rd</sup> Week 10April - 15April	Test
14 April, 2023 16 April, 2023	<b>Vaisakhi/Dr. B.R. AmbedkarJayanti</b> <b>Sunday</b>
4 <sup>th</sup> Week 17 April -21 April	<b>Sessional Exams</b>
22 April, 2023 23 April, 2023	<b>Id-Ul-Fitr/ParshuramJayanti</b> <b>Sunday</b>
5 <sup>th</sup> Week 24 April -29 April	Pointers and functions, pointers and strings.
30 April, 2023	<b>Sunday</b>

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