

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

Name of the Teacher – Ms. Sakshi Aneja

Subject- Computer Science

BCA-352 (Operating System-I)

Class- BCA 5th Sem

October, 2021 2 nd Week 11 Oct-16 Oct	Operating System: Definition, Characteristics, Components, Functions. Examples; Types of Operating System: Single User, Multi User
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
3 rd Week 18 Oct-23 Oct	Classification of Operating System: Batch, Multiprogrammed, Timesharing, Multiprocessing, Parallel, Distributed, Real Time; System Calls and System Programs Process Control,
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
4 th Week 25 Oct-30 Oct	Revision and Tests of Unit I
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-13 Nov	Process Management: Process concept, Process states and Process Control Block; Process Scheduling
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Scheduling Queues, Schedulers, Context Switch; Operation on Processes: Process Creation, Process Termination; Cooperating Processes, Introduction to Threads, Inter-process Communication
19 Nov, 2021	Guru Nanak Dev Jayanti
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	CPU Scheduling: Basic Concepts, Scheduling Criteria, Scheduling Algorithms: FCFS, SJF, Priority, Round-Robin, Multilevel Queue, Multilevel Feedback Queue Scheduling
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Deadlocks: System Model, Deadlock Characterization, Methods of Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection and Recovery
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Memory Management: Introduction, Swapping, Contiguous Allocation: Single-Partition/Multiple Partition Allocation, External/Internal Fragmentation
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Segmentation: Basic Method, Hardware, Implementation of Segment Table, Advantages/Disadvantages of Paging/Segmentation

KVA DAV College for Women, Karnal
Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Sakshi Aneja

Subject- Computer Science

BCA-352 (Operating System-I)

Class- BCA 5th Sem

19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Virtual Memory: Introduction, Demand Paging
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Page Replacement, Page Replacement Algorithms:FIFO, Optimal
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	LRU, Counting; Thrashing and its cause;
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	File Management: File Concepts, File Attributes, File Operations
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Revision of Previous Syllabus
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exams
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2021 1 st week 1 Feb-4 Feb	File Types, File Access/Allocation Methods, File Protection, File Recovery
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Revision of Syllabus and Class Tests
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of Syllabus and Class Tests

KVA DAV College for Women, Karnal
Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Sakshi Aneja

Class-M.Sc. 1st Sem

Subject- MS-15-13 SOFTWARE ENGINEERING

3 rd Week 15 Nov-20 Nov	Introduction: Software Crisis-problem and causes, Software Processes, Software life cycle models: Waterfall, Prototype, Evolutionary and Spiral models, Overview of Quality Standards like ISO 9001, SEI-CMM, CMMI, PCMM, Six Sigma.
19 Nov, 2021	Guru Nanak Dev Jayanti
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Software Metrics: Size Metrics like LOC, Token Count, Function Count, Design Metrics, Data Structure Metrics, Information Flow Metrics, cyclomatic complexity, Halstead Complexity measures.
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Software Project Planning: Cost estimation, static, Single and multivariate models, COCOMO model, Putnam Resource Allocation Model, Risk management, project scheduling, personnel planning, team structure, Software configuration management, quality assurance, project monitoring.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Software Requirement Analysis and Specifications: Structured Analysis, Data Flow Diagrams, Data Dictionaries, Entity-Relationship diagrams, Software Requirement and Specifications, Behavioral and non-behavioral requirements.
12 Dec, 2021	Sunday
3 rd week 13 Dec -18 Dec	Software Design: Design fundamentals, problem partitioning and abstraction, design methodology, Cohesion & Coupling, Function Oriented Design and User Interface Design. Coding: Programming style, structured programming
19 Dec, 2021	Sunday
4 th Week 20 Dec-24 Dec	Software reliability: Metric and specification, Musa and JM reliability model, fault avoidance and tolerance, exception handling, defensive programming
25 Dec, 2021 26 Dec, 2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Software Testing: Functional testing: Boundary Value Analysis, Equivalence class testing, Cause effect graphing
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Structural testing: Control flow based and data flow based testing, loop testing, mutation testing, load, stress and performance testing.
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	software testing strategies: unit testing, integration testing, System testing, Alpha and Beta testing, debugging. Static Testing: Formal Technical Reviews, Walk Through, Code Inspection
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Revision of Previous Syllabus
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exam

KVA DAV College for Women, Karnal
Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Sakshi Aneja

Class-M.Sc. 1st Sem

Subject- MS-15-13 SOFTWARE ENGINEERING

26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	Software Maintenance: Types of Maintenance, Maintenance Process, Maintenance characteristics. Reverse Engineering, Software Re-engineering
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Testing & its types
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of Syllabus and Tests

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(October, 2021 to February, 2022)

Name of the Teacher – Ms. Harbinder Kaur

Subject- Computer Science

Paper- BCA-231 (Object Oriented Programming using C++)

Class- BCA 3rd Sem

October, 2021 2 nd Week 11 Oct-16 Oct	What is Object Oriented Programming & How it differs from C. Object oriented Programming: Object-Oriented programming features and benefits. Object-Oriented features of C++, Class and Objects, Data Hiding & Encapsulation.
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
3 rd Week 18 Oct-23 Oct	Structures, Data members and Member functions, Scope resolution operator and its significance.
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
4 th Week 25 Oct-30 Oct	Static Data Members, Static member functions, Nested and Local Class, Accessing Members of Class and Structure. Constructor, Initialization using constructor, types of constructor–
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-13 Nov	Default, Parameterized & Copy Constructors, Constructor overloading, Default Values to Parameters, Destructors. Revision of Topics and Test
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Various programs of Static members and Constructor
19 Nov, 2021	Guru Nanak Dev Jayanti
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Polymorphism: Operators in C++, Precedence and Associativity Rules, Operator Overloading, Unary & Binary Operators Overloading
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Function Overloading, Inline Functions Group Discussion and Tests
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Manipulators, Friend Function, Friend Class. Array of Objects, Passing and Returning Objects to Functions.
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	String Handling in C++. Dynamic Memory Management.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Harbinder Kaur

Subject- Computer Science

Paper- BCA-231 (Object Oriented Programming using C++)

Class- BCA 3rd Sem

19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Pointers, new and delete Operator, Array of Pointers to Objects This Pointer, how to use pointer in array and functions as parameter or as return type.
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Passing Parameters to Functions by Reference & pointers.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Discuss important topics for Exam
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Discuss Previous Topics
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Console I/O: Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations.
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exams
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	Discuss various program of Pointer and references
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Revision of Syllabus and Class Tests
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of Syllabus and Class Tests

KVA DAV College for Women, Karnal
Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher- Ms. Harbinder Kaur

Class-M.Sc Computer Science (Software) 3rd Sem.

Subject- MS-15-31 (OBJECT ORIENTED ANALYSIS AND DESIGN USING UML)

October, 2021 2 nd Week 11 Oct-16 Oct	Modeling as a Design Technique: Abstraction, Encapsulation, Modularity. Hierarchy, Typing, Concurrency, Persistence of objects. Purpose of modeling.
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
3 rd Week 18 Oct-23 Oct	Class Model – Object & Class, Links & Associations Generalization & Inheritance, Association Ends - Multiplicity, Role names, Ordering
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
4 th Week 25 Oct-30 Oct	Qualification, Aggregation, Link attributes & Link class, Abstract class, Metadata, Constraints. Constructing class diagram.
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2nd Week 8 Nov-13 Nov	State Modeling: Event, State, Activity, Action, Transitions & Conditions, State diagrams, Nested state diagrams.
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Signal generalization, concurrency, relationships between class and state models. Discussions
19 Nov, 2021	Guru Nanak Dev Jayanti
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Interaction Modeling: use case models, use case relationships, sequence models, procedural sequence models, activity models, special constructs for activity models.
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	System Analysis & design: System development stages, system conception.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	analysis, domain class model, domain state model, iterating the analysis. Application interaction model, application class model, application state model, adding operations.
12 Dec,2021	Sunday

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Lesson plan for the odd semester
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Name of the Teacher- Ms. Harbinder Kaur

Class-M.Sc Computer Science (Software) 3rd Sem.

Subject- MS-15-31 (OBJECT ORIENTED ANALYSIS AND DESIGN USING UML)

3 rd week 13 Dec -18 Dec	System Design: estimating performance, make a reuse plan, organize the system into subsystem, identifying concurrency, allocating subsystems to processors and tasks, management of data stores,
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Handling global resources.
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	choosing software control strategies, handling boundary conditions, setting trade-off priorities, selecting an architect style
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Class Design: bridging gap, realize use cases with operations
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Designing algorithms, design optimization, adjustment of inheritance, organize classes & associations.
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	UML: Principles of modeling, UML Things – Structural, Behavioral, Grouping, Annotational
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2021 1 st week 1 Feb-4 Feb	Overview of diagrams in UML – Class diagram, Object diagram, Use-Case diagram, Sequence diagram, Collaboration diagram, Statechart diagram.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Relationships in UML – Dependency, Association, Generalization, Realization. Activity diagram, Component diagram, Deployment diagram. UML Semantic Rules – Names, Scope, Visibility, Integrity, Execution Mechanisms in the UML – Specifications, Adornments, Common Divisions, Extensibility Mechanisms.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of Syllabus and Class Tests

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(October, 2021 to February, 2022)

Name of the Teacher – Ms. Neha Sharma

Class-M.Sc. 1st Sem

Subject- Discrete Mathematics Structures

3 rd Week 15 Nov-20 Nov	Set Theory: Basic Set Theory, Operations on Sets
19 Nov, 2021	Guru Nanak Dev Jayanti
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Algebra of sets, Venn Diagrams. Relations: Binary Relations, Complement of relations, Inverse of relations, Composite relations, Properties, Equivalence
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Partial Order and Total order relations. Functions: Functions on Set, Domain, Co-domain, Representation of Functions, Types, Identity and Inverse Functions,
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Composition of FunctionsPropositional Calculus: Propositional logic, Equivalences, Predicates , Quantifiers, Nested Quantifiers, Rules of Inference,
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Normal Forms, Proofs: Methods, Strategy. Counting: Counting Principles.
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Counting Principles.Cont.,Pigeonhole Principle, Inclusion-Exclusion Principle, Permutations and Combinations, Binomial Coefficients Problems to be taken from students
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Advanced Counting Techniques: Recurrence Relations, Solving Recurrence Relations, Divide and Conquer Algorithms
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Recurrence Relations, Solution of Recurrence, Relations by the method of Generating Function..
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Lattices and Boolean algebra:Lattices, Hasse Diagram, Principle of Duality ,Types of Lattices, Special Lattices, Boolean Expression
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Equivalent circuits, Dual, Normal Forms,Graphs: Introduction, Terminology, Types of Graphs, Representation of Graphs, Paths and Circuits
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	Cut-set and Cut - Vertices, Graph Isomorphism, Homomorphism, Connectivity,Bipartite Graphs, Subgraphs, Operations on Graphs, Euler and Hamiltonian Graphs, Shortest Path Problem,
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Planar & Dual Graphs, Coloring,Tree: Tree Notations, Properties of tree, Types of Tree, Operations,
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Operations continued, Minimum Spanning Tree (MST). Problems taken from students

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Neha Sharma

Subject- Computer Science

Paper- BCA-232 [Data Structure]

Class- BCA 3rd Sem

October, 2021 2 nd Week 11 Oct-16 Oct	Introduction: Elementary data organization, Data Structure definition Data type vs. data structure, Categories of data structures.
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
3 rd Week 18 Oct-23 Oct	Data structure operations ,Applications of data structures, Algorithms complexity and time-space tradeoff, Big-O notation
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
4 th Week 25 Oct-30 Oct	Strings: Introduction, String strings, String operations, Pattern matching algorithms.
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-13 Nov	Arrays: Introduction, Linear arrays, Representation of linear array in memory
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Traversal, Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrices
19 Nov, 2021	Guru Nanak Dev Jayanti
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Neha Sharma

Subject- Computer Science

Paper- BCA-232 [Data Structure]

Class- BCA 3rd Sem

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Insertion, Deletion, Searching in a linked list
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Header linked list, Circular linked list, Two-way linked list, Garbage Collection
12 Dec, 2021	Sunday
3 rd week 13 Dec -18 Dec	Applications of linked lists. Algorithms for Insertion, deletion in array
19 Dec, 2021	Sunday
4 th Week 20 Dec-24 Dec	Applications of stacks: Polish notation, Recursion. Queues: Introduction, Array and linked representation of queues,
25 Dec, 2021 26 Dec, 2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Operations on queues, Dequeues, Priority Queues, Applications of queues.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Problems taken regarding first three units and tests
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Neha Sharma

Subject- Computer Science

Paper- BCA-232 [Data Structure]

Class- BCA 3rd Sem

2 nd week 10 Jan – 15 Jan	Tree: Introduction, Definition, Representing Binary tree in memory,
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Traversing binary trees, Traversal algorithms using stacks and using recursion.
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exams
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	Graph: Introduction, Graph theory terminology, Sequential and linked representation of graphs.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Problems discussed on tree traversal
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of Syllabus and Class Tests

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Divya Vij
Class-M.Sc. 1st Semester
Subject- Data Structures and Algorithms

3 rd Week November 15-20, 2021	Introduction to Data Structures: Classification of Data Structures, Arrays, Stacks, Representation of Stacks, Stack Operations, Applications, Queues, Operations on Queues.
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 22-27, 2021	Circular Queues, Dequeue, Priority Queues, Applications. Linked Lists: Introduction, Types, Operations (Insertion, Deletion, Traversal. Linked Lists: Searching, Sorting), Applications, Dynamic Memory Management and Implementation of Linked Representations.
November 28, 2021	Sunday
December 2021 1 st Week November 29- December 04, 2021	Trees: Definition, Representation of Trees, Types of Tree, Representation of Binary Trees, Binary Tree Traversals, Threaded Binary Trees, Binary Search Trees and Operations, Minimum Spanning Tree, AVL Trees, Heap, m-way Search Trees, B-Trees, B+ Trees, Applications.
December 05, 2021	Sunday
2 nd Week December 06-11, 2021	Graphs: Definitions and Basic Terminologies, Representation of Graphs, Graph Traversals, Shortest Path Problem, Applications.
December 12, 2021	Sunday
3 rd Week December 13-18, 2021	Introduction to Algorithms: Role of algorithms in computing, Complexity of algorithms, Analyzing algorithms, designing algorithms, asymptotic notations.
December 19, 2021	Sunday
4 th Week December 20-24, 2021	Divide and Conquer: Complexity of iterative programs and recursive programs, solving recurrence equations: back substitution method, recursion tree method, masters theorem.
December 25, 2021 December 26, 2021	Christmas Sunday
1 st Week 27 December 27, 2021- January 01, 2022	Dynamic Programming (DP): Elements of DP, Matrix chain multiplication, Longest common subsequence, optimal binary search trees.
January 02, 2022	Sunday
January 2022 2 nd Week January 03-08, 2022	Greedy Techniques (GT): Elements of GT, Activity selection problem, Huffman codes, Knapsack Problem.
January 09, 2022	Sunday (Sh. Guru Gobind Singh's Birthday)
3 rd Week January 10-15, 2022	Graph Algorithms: Single source shortest path: Analysis of Dijkstra's Algorithm, Limitations of Dijkstra's Algorithm, Negative weight cycle, Bellman-Ford algorithm.
January 16, 2022	Sunday
4 th Week January 17-22, 2022	All Pairs Shortest Path: Relation of Shortest path and matrix multiplication, Analysis of Floyd Warshall algorithm. Maximum Flow: Flow network, Ford- Fulkerson method.

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Lesson Plan Odd Semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Divya Vij
Class-M.Sc. 1st Semester
Subject- Data Structures and Algorithms

January 23, 2022	Sunday
5 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2022 1 st Week January 31- February 04, 2022	Computational complexity: Notion of Polynomial time algorithms, Complexity classes: P, NP, NP-Hard and NP Complete, Polynomial time verification, Reducibility, NP-Completeness.
February 05, 2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 07-12, 2022	Analysis of heap sort and quick sort; Counting sort, Radix sort, Bucket sort, Lower bounds for sorting, Advanced Trees: Introduction to 2-3 Tree, Red black Tree, Splay Trees.
February 13, 2022	Sunday
3 rd Week February 14-19, 2022	Revision of the Syllabus

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Divya Vij
Class- B.Sc. II CS & B.A. II CS
Paper-I (Data Structures)

October 2021 3 rd Week October 11-13, 2021	Introduction: Elementary data organization, Data Structure definition, Data type vs. data structure, Categories of data structures, Data structure operations, Applications of data structures
October 15, 2021 October 17, 2021	(Dussehra) Sunday
4 th Week October 18-19, 2021	Algorithms complexity and time-space tradeoff, Big-O notation.
October 20, 2021 October 24, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week October 25-27, 2021	Strings: Introduction, strings, String operations, Pattern matching algorithms
October 31, 2021	Sunday
November 2021 1 st Week November 01-07, 2021	(Haryana Day) Diwali Holidays
2 nd Week November 08-10, 2021	Arrays: Introduction, Linear arrays, Representation of linear array in memory, Traversal, Insertions, Deletion in an array.
November 14, 2021	Sunday
3 rd Week November 15-17, 2021	Insertions, Deletion in an array, Multidimensional arrays, Parallel arrays, Sparse matrix. Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory,
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 22-24, 2021	Traversal, Insertion, Deletion, Searching in a linked list, Header linked list, Circular linked list.
November 28, 2021	Sunday
1 st Week November 29-30, December 01, 2021	Applications of linked lists. Algorithm of insertion/ deletion in SLL, Two-way linked list, Garbage collection.
December 05, 2021	Sunday
2 nd Week December 06-08, 2021	Stack: primitive operation on stack, algorithms for push and pop. Representation of Stack as Linked List and array.
December 12, 2021	Sunday
3 rd Week December 13 -15, 2021	Stacks applications: polish notation, recursion, Multidimensional arrays, Parallel arrays, Sparse matrix.
December 19, 2021	Sunday

KVA DAV College for Women, Karnal**Lesson Plan Odd Semester****(October, 2021 to February, 2022)****Name of the Teacher – Ms. Divya Vij****Class- B.Sc. II CS & B.A. II CS****Paper-I (Data Structures)**

4 th Week December 20-22, 2021	Introduction to queues, Primitive Operations on the Queues, Circular queue.
December 25, 2021 December 26, 2021	Christmas Sunday
5 th Week December 27-29, 2021	Priority queue, Representation of Queues as Linked List and array.
January 02, 2022	Sunday
January 2022 1 st Week January 03-05, 2022	Applications of queue. Algorithm on insertion and deletion in simple queue and circular queue.
January 09, 2022	Sunday(Sh. Guru Gobind Singh's Birthday)
2 nd Week January 10-12, 2022	Trees- Basic Terminology, representation, Binary Trees, Tree Representations using Array & Linked List, Basic operation on Binary tree
January 16, 2022	Sunday
3 rd Week January 17-19, 2022	Traversal of binary trees:- In order, Preorder & post order, Applications of Binary tree.
January 23, 2022	Sunday
4 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2021 1 st Week 31 January 31, February 01-02, 2022	Algorithm of tree traversal with and without recursion.
February 05, 2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 07-09, 2022	Introduction to graphs, Definition, Terminology, Directed, Undirected & Weighted graph, Representation of graphs.
February 13, 2022	Sunday
3 rd Week February 14-15, 2022	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson Plan Odd Semester

(October, 2021 to February, 2022)

Name of the Teacher – Ms. Divya Vij

Class- B.Sc. II CS & B.A. II CS

Paper-II (Software Engineering)

October 2021 3 rd Week October 14-16, 2021	Introduction: Program vs. Software, Software Engineering, Programming paradigms.
October 15, 2021 October 17, 2021 October 20, 2021	Dussehra Sunday Maharishi Valmiki Jayanti
4 th Week October 21-23, 2021	Software Crisis – problem and causes, Phases in Software development: Requirement Analysis, Software Design, Coding, Testing, Maintenance.
October 24, 2021	Sunday
5 th Week October 28-30, 2021	Software Development Process Models: Waterfall, Prototype, Evolutionary and Spiral models, Role of Metrics.
October 31, 2021	Sunday
November 2021 1 st Week November 01-07, 2021	Haryana Day Diwali Holidays
2 nd Week November 11-13, 2021	Feasibility Study, Software Requirement Analysis and Specifications: SRS.
November 14, 2021	Sunday
3 rd Week November 18 & 20, 2021	Need for SRS, Characteristics of an SRS, Components of an SRS, Problem Analysis, Information gathering tools.
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 25-27, 2021	Organising and structuring information, Requirement specification, validation and metrics.
November 28, 2021	Sunday
1 st Week December 01-03, 2021	Structured Analysis and Tools: Data Flow Diagram, Data Dictionary, Decision table, Decision trees, Structured English, Entity-Relationship diagrams .
December 05, 2021	Sunday
2 nd Week December 09-11, 2021	Software Project Planning, Cost estimation: COCOMO model, Project scheduling, Staffing and personnel planning, team structure.
December 12, 2021	Sunday
3 rd Week December 16-18, 2021	Software configuration management, Quality assurance plans, Project monitoring plans, Risk Management.
December 19, 2021	Sunday

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Divya Vij
Class- B.Sc. II CS & B.A. II CS
Paper-II (Software Engineering)

4 th Week December 23-25, 2021	Software testing strategies: unit testing.
December 25, 2021 December 26, 2021	Christmas Sunday
1 st Week December 30-31, 2021 January 01, 2022	Integration testing, V and V, System testing.
January 02, 2022	Sunday
January 2022 2 nd Week January 06-08, 2022	Alpha and Beta testing, Black box testing.
January 09, 2022	Sunday(Sh. Guru Gobind Singh's Birthday)
3 rd Week January 13-15, 2022	White box testing, Cyclomatic Complexity.
January 16, 2022	Sunday
4 th Week January 20-22, 2022	Software Implementation and Maintenance: Type of maintenance.
January 23, 2022	Sunday
5 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2021 1 st Week February 03-05, 2022	Management of Maintenance, Maintenance Process, maintenance characteristics.
February 05, 2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 10-12, 2022	Revision of Syllabus.
February 13, 2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper- Windows and PC-Software (BCA-112)

Class- BCA-I

October, 2021 2 nd Week 8 Oct-9 Oct	Introduction to Windows and its Features,
3 rd Week 11 Oct-16 Oct	Hardware Requirements of Windows. Windows Concepts, Windows Structure, Desktop, Taskbar, Start Menu, My Pictures, My Music, My Documents, Recycle Bin.
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
4 th Week 18 Oct-23 Oct	Managing Files, Folders and Disk .My Computer, Windows Explorer and its Facilities, Using CD, DVD, Pen Drive, Burning CD.
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week 25 Oct-30 Oct	Windows Accessories. Entertainment- Media Players, Sound Recorder, Volume Control.
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-13 Nov	Managing Hardware & Software - Installation of Hardware & Software, Using Scanner, WebCamera, Printers. System Tools - Backup, Character Map, Clipboard Viewer, DiskDefragmenter, Drive Space, Scandisk, System Information, System Monitor, Disk Cleanup,
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Using Windows Update. Browsing the Web with Internet Explorer, Multiple User Features of Windows, Creating and Deleting User, Changing User Password, etc.
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 22 Nov-27 Nov	Accessibility Features of Windows - Sharing Folders and Drives, Browsing the Entire Network, Using Shared Printers. Control Panel & its components

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja
Subject- Computers
Paper- Windows and PC-Software (BCA-112)
Class- BCA-I

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov -04 Dec	Introduction and area of use, Working with Excel, Toolbars, Menus and Keyboard Shortcuts, concepts of Workbook & Worksheets, Using Wizards, Various Data Types,
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Using different features with Data, Cell and Texts, Inserting, Removing & Resizing of Columns & Rows,
12 Dec, 2021	Sunday
3 rd week 13 Dec -18 Dec	Working with Data & Ranges, Different Views of Worksheets,
19 Dec, 2021	Sunday
4 th Week 20 Dec-24 Dec	Column Freezing, Labels, Hiding, Splitting etc., Using different features with Data and Text, Cell Formatting including Borders & Shading
25 Dec, 2021 26 Dec, 2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Multiple Worksheets: Concept, Creating and Using Multiple Worksheets;
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Use of Formulas
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja
Subject- Computers
Paper- Windows and PC-Software (BCA-112)
Class- BCA-I

2 nd week 10 Jan – 15 Jan	Calculations & Functions, Various types of Functions
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Cell Referencing, Absolute and Relative Addressing, Working with Different Chart Types, Chart Wizard
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 31 Jan -4 Feb	Printing of Workbook & Worksheets with various options, Database: Creation,
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Sorting, Query and Filtering a Database; Creating and Using Macros; Pivot table & Pivot chart
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper- Software Engineering(BCA-234)

Class- BCA II

October, 2021 2 nd Week 8 Oct-9 Oct	Program vs. Software, Software Engineering
3 rd Week 11 Oct-16 Oct	Programming paradigms, Software Crisis – problem and causes, Phases in Software development
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
4 th Week 18 Oct-23 Oct	Requirement Analysis, Software Design, Coding, Testing, Maintenance
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week 25 Oct-30 Oct	Software Development Process Models: Waterfall, Prototype
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-13 Nov	Evolutionary and Spiral models, Role of Metrics.
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Feasibility Study, Software Requirement Analysis and Specifications
19 Nov, 2021 21 Nov, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week 22 Nov-27 Nov	SRS, Need for SRS, Characteristics of an SRS, Components of an SRS, Problem Analysis

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper- Software Engineering(BCA-234)

Class- BCA II

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov -04 Dec	Information gathering tools, Organizing and structuring information,
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Requirement specification, validation and Verification.. Software Configuration Management(SCM)
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Structured Analysis and Tools: Data Flow Diagram, Data Dictionary,Decision table, Decision tress, Structured English
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Entity-Relationship diagrams, Cohesion and Coupling. Gantt chart, PERT Chart,
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Software Maintenance: Type of maintenance,Management of Maintenance, Maintenance Process, maintenance characteristics.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Software Project Planning: Cost estimation: COCOMO model,
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper- Software Engineering(BCA-234)

Class- BCA II

2 nd week 10 Jan – 15 Jan	Project scheduling ,Staffing and personnel planning, team structure,
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Software configuration management, Quality assurance plans, Project monitoring plans
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 31 Jan -4 Feb	Risk Management.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Software testing strategies: unit testing, integration testing, Validation testing, System testing, Alpha and Beta testing
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper-I (Desktop Publishing)

Class- B.Sc. III CA

October, 2021	
3 rd Week 11 Oct-13 Oct	Desktop Publishing: Concept, Need and Applications; Hardware and Software requirements for DTP
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
4 th Week 18 Oct-19 Oct	An Overview and comparison between DTP packages, Common features of DTP.
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week 25 Oct-27 Oct	Introduction to Page Maker: Features, System Requirements, Components of Page Maker Window
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-10 Nov	Introduction to Menu and Toolbars, PageMaker Preferences
14 Nov, 2021	Sunday
3 rd Week 15 Nov-17Nov	Creating of Publications: Starting PageMaker, Setting Page size, Placing the text Formatting the text:
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 22 Nov-24 Nov	Character Specification Paragraph setting: Paragraph Specification, Paragraph Rules,

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper-I (Desktop Publishing)

Class- B.Sc. III CA

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov -01 Dec	Spacing, Indents/Tabs, Define Styles, Hyphenation
05 Dec, 2021	Sunday
2 nd Week 06 Dec -8 Dec	Header & Footer, Page Numbering, Saving and Closing publication
12 Dec,2021	Sunday
3 rd week 13 Dec -15 Dec	Editing Publication: Open a publication ,Story editor, Find and change the text, Change character and Paragraph attributes
19 Dec,2021	Sunday
4 th Week 20 Dec-22 Dec	Spell checking ,Selecting text, Cut, Copy, Paste, Paste multiple, Working with columns, Control palette: Manipulating objects, formatting the text, Book, Table of Contents,
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -29 Dec	Creating Index, Index entry, Show Index, Print Working with Graphics: Insert Objects, Paste Special, Linking the graphics, Link the option, Link Information, editing original ,
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 5 Jan	Text wrap, Bring to Front, Send to Back, Reversing the Text.
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper- I (Desktop Publishing)

Class- B.Sc. III CA

2 nd week 10 Jan – 12 Jan	Working with Frame: Introduction, Creating Frames, editing, Frame options, Dialog Box, Text Frame
16 Jan ,2022	Sunday
3 rd week 17 Jan – 19 Jan	Working with colors: Introduction, Applying colors, Replacing &removing colours, Editing a color
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 31 Jan ,1-2 Feb	Working with Table: Setting &creating a new table, Close table, Selecting text, Cell rows & columns ,Typing, Editing & Formatting text in table, Cutting, Copying & Pasting Information
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 9 Feb	Setting up Master Pages: Design a Grid, Guiding the Grid, Understanding Master Pages, Rulers options.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper-II (Programming Using C++)

Class- B.Sc. III CA

October, 2021 2 nd Week 8 Oct-9 Oct	Object-Oriented programming features and benefits. Object-Oriented features of C++
3 rd Week 14 Oct-16 Oct	Class and Objects, Data Hiding & Encapsulation, Structures,
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
4 th Week 21 Oct-23 Oct	Data members and Member functions, Scope resolution operator and its significance,
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week 28 Oct-30 Oct	Static Data Members, Static member functions, Nested and Local Class, Accessing Members of Class and Structure.
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 11 Nov-13 Nov	Constructor, Initialization using constructor, types of constructor– Default, Parameterized & Copy Constructors
14 Nov, 2021	Sunday
3 rd Week 18 Nov-20 Nov	Constructor Overloading, Default Values to Parameters, Destructors,
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 25 Nov-27 Nov	Console I/O:Hierarchy of Console Stream Classes, Unformatted and Formatted I/O Operations

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper- II (Programming Using C++)

Class- B.Sc. III CA

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 02 -04 Dec	Manipulators, Friend Function, Friend Class
05 Dec, 2021	Sunday
2 nd Week 09 Dec -11 Dec	Arrays, Array of Objects
12 Dec,2021	Sunday
3 rd week 16 Dec -18 Dec	Passing and Returning Objects to Functions,
19 Dec,2021	Sunday
4 th Week 23 Dec-24 Dec	String Handling in C++
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 30 Dec-31 Dec, 1 Jan	Dynamic Memory Management: Pointers, new and delete Operator,
2 Jan ,2022	Sunday
Jan ,2022 1 st week 6 Jan – 8 Jan	Array of Pointers to Objects, this Pointer, Passing Parameters to Functions by Reference & pointers.
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper-II (Programming Using C++)

Class- B.Sc. III CA

2 nd week 13 Jan – 15 Jan	Polymorphism: Operators in C++, Precedence and Associativity Rules, Operator Overloading
16 Jan ,2022	Sunday
3 rd week 20 Jan – 22 Jan	Unary & Binary Operators Overloading
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 3 Feb -4 Feb	Function Overloading
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 10 Feb- 12 Feb	Inline Functions
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper-II (Web Designing)

Class- B.A. III (Computer Science)

October, 2021	
3 rd Week 11 Oct-13 Oct	Introduction to Internet and World Wide Web; Evolution and History of World Wide Wbe
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
4 th Week 18 Oct-19 Oct	Basic Features of WWW, Web Browsers
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week 25 Oct-27 Oct	Web Servers; Hypertext Transfer Protocol;
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-10 Nov	URLs; Searching and Web- Casting Techniques
14 Nov, 2021	Sunday
3 rd Week 15 Nov-17Nov	Search Engines and Search Tools
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 22 Nov-24 Nov	Steps for Developing Website; Choosing the Contents; Home Page; Domain Names

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper-II (Web Designing)

Class- B.A. III (Computer Science)

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29-30 Nov, 01 Dec	Internet Service Provider
05 Dec, 2021	Sunday
2 nd Week 06 Dec -8 Dec	Planning and Designing Web Site; Creating a Website;
12 Dec,2021	Sunday
3 rd week 13 Dec -15 Dec	Web Publishing: Hosting Site;
19 Dec,2021	Sunday
4 th Week 20 Dec-22 Dec	Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags;
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -29 Dec	Header, Title, Body, Paragraph, Ordered/Unordered Line, Creating Links; Headers;
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 5 Jan	Text Styles; Text Structuring; Text Colors and Background;
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Mamta Atreja

Subject- Computers

Paper-II (Web Designing)

Class- B.A. III (Computer Science)

2 nd week 10 Jan – 12 Jan	Formatting Text; Page layouts; Insertion of Text, Movement of Text
16 Jan ,2022	Sunday
3 rd week 17 Jan – 19 Jan	Images: Types of Images, Insertion of Image, Movement of Image, Ordered and Unordered lists;
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 31 Jan ,1-2 Feb	Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours; Frame
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 9 Feb	Creation and Layouts; Working with Forms and Menus; Working with Buttons like Radio, Check Box
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson Plan Odd Semester

(October 2021 to February 2022)

Name of the Teacher–Ms. Prashantika P Sanduja

Class - M.Sc. CS 3rd Semester

Subject-Computer Networks (MS-15-33)

3 rd Week November 15-20, 2021	Introduction to Computer Networks and its uses; Network categorization and Hardware; Topologies; Network Software: Protocols, Services, Network Architecture, Design issues for the layers
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 22-27, 2021	OSI Reference model, TCP/IP Reference model, Comparison of OSI and TCP/IP Models, Introduction to Example Networks: Internet, ISDN, X.25, Frame Relay, ATM.
November 28, 2021	Sunday
December 2021 1 st Week November 29- December 04, 2021	Data Communication Model, Digital and Analog data and signals, Asynchronous and Synchronous transmission; bit rate, baud, bandwidth, Transmission impairment; Channel Capacity; Guided Transmission Media; Wireless Transmission, Satellite communication
December 05, 2021	Sunday
2 nd Week December 06-11, 2021	Switching; Multiplexing; Spread Spectrum; local loop; Modems and ADSL, Encoding: NRZ, NRZ-I, Manchester and Differential Manchester encoding, Internet over Cable; ADSL Versus Cable; The Mobile Telephone System
December 12,2021	Sunday
3 rd Week December 13-18, 2021	Revision of Unit I
December 19, 2021	Sunday
4 th Week December 20-24, 2021	Revision of Unit II
December 25, 2021 December 26, 2021	Christmas Sunday
1 st Week 27 December 27, 2021- January 01, 2022	Data Link Layer Design issues; Framing, Error Detection and Correction; Flow Control: Sliding Window Protocols; Medium Access Control: Aloha, CSMA protocols, Collision free protocols, Limited Contention Protocols
January 02, 2022	Sunday
January 2022 2 nd Week January 03-08, 2022	Wavelength Division Multiple access protocol, Wireless LAN Protocol: MACA; High Speed LANs; Ethernet LAN, Fast Ethernet, Gigabit Ethernet; Binary Exponential Backoff algorithm; Token Ring and FDDI; Introduction to Wireless LANs
January 09, 2022	Sunday(Sh.GuruGobindSingh's Birthday)
3 rd Week January 10-15, 2022	Revision of Unit III
January 16, 2022	Sunday
4 th Week January 17-22, 2022	Network Layer Design issues , Virtual Circuit and Datagram Subnet, Routing Algorithms: Optimality principle, Shortest path Routing, Flooding , Distance Vector Routing, Link State Routing, Hierarchical Routing

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October 2021 to February 2022)

Name of the Teacher–Ms. Prashantika P Sanduja
Class - M.Sc. CS 3rd Semester
Subject-Computer Networks (MS-15-33)

January 23, 2022	Sunday
5 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2022 1 st Week January 31- February 04, 2022	Broadcast and Multi Cast Routing, Routing for Mobile hosts, Congestion Control Algorithms: General Principals; Congestion control in Virtual – Circuit Subnets, Congestion Control in Datagram Subnets: Choke packets, Load Shedding
February 05,2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 07-12, 2022	Random Early Detection, Jitter Control; Quality of Service: Over provisioning, Buffering, Traffic Shaping, Leaky bucket, token bucket, Resource Reservation, Admission Control, Packet Scheduling
February 13, 2022	Sunday
3 rd Week February 14-19, 2022	Revision of the Syllabus

KVA DAV College for Women, Karnal**Lesson Plan Odd Semester****(October 2021 to February 2022)****Name of the Teacher–Ms. Prashantika P Sanduja****Class - BCA 3rd Semester****Subject-Computer Architecture (BCA-233)**

3 rd Week November 15-20, 2021	Basic Computer Organisation and Design: Instruction Codes, Computer registers, Computer Instructions, Timing and Control, Instruction Cycle, Memory reference instructions
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 22-27, 2021	Input-Output and Interrupt, Design of Basic computer, Design of accumulator logic
November 28, 2021	Sunday
December 2021 1 st Week November 29- December 04, 2021	Register Transfer and Microoperations: Register Transfer Language (RTL), register transfer, Bus and Memory Transfers
December 05, 2021	Sunday
2 nd Week December 06-11, 2021	Arithmetic Microoperations, Logic Microoperations, Shift Microoperations, Arithmetic Logic Shift Unit
December 12,2021	Sunday
3 rd Week December 13-18, 2021	Microprogrammed Control: Control memory; address sequencing, microprogram sequencer, Design of Control Unit
December 19, 2021	Sunday
4 th Week December 20-24, 2021	Revision of Unit II
December 25, 2021 December 26, 2021	Christmas Sunday
1 st Week 27 December 27, 2021- January 01, 2022	Central Processing Unit: General registers Organization, Stack Organization.
January 02, 2022	Sunday
January 2022 2 nd Week January 03-08, 2022	Instruction formats, Addressing Modes, Data Transfer and Manipulation
January 09, 2022	Sunday (Sh. Guru Gobind Singh's Birthday)
3 rd Week January 10-15, 2022	Program Control, Program Interrupt, RISC, CISC
January 16, 2022	Sunday
4 th Week January 17-22, 2022	Memory Organization: Memory hierarchy, Auxiliary Memory

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October 2021 to February 2022)

Name of the Teacher—Ms. Prashantika P Sanduja
Class - BCA 3rd Semester
Subject-Computer Architecture (BCA-233)

January 23, 2022	Sunday
5 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2022 1 st Week January 31- February 04, 2022	Associative Memory, Interleaved memory, Cache memory, Virtual Memory, Memory Management Hardware, Input Output Organization
February 05,2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 07-12, 2022	Peripheral devices , Input-Output Interface, Asynchronous data Transfer, Modes of Transfer, Priority Interrupt, Direct Memory Access(DMA), Input-Output Processor(IOP).
February 13, 2022	Sunday
3 rd Week February 14-19, 2022	Revision of the Syllabus

KVA DAV College for Women, Karnal**Lesson Plan Odd Semester****(October 2021 to February 2022)****Name of the Teacher–Ms. Prashantika P Sanduja****Class – B.Sc. CS 1st Semester****Subject-Computer & Programming Fundamentals (Paper – I)**

October 2021 3 rd Week October 11-13, 2021	Computer Fundamentals: Definition, Functional components of computer, characteristics & classification of computers, Applications of computers in various fields
October 15, 2021 October 17, 2021	(Dussehra) Sunday
4 th Week October 18-19, 2021	Memory: Concept of primary & secondary memory, RAM, ROM, types of ROM, Cache memory
October 20, 2021 October 24, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week October 25-27, 2021	CPU Registers, flash memory, Secondary storage devices: Sequential & direct access devices viz. magnetic tape, magnetic disk, CD, DVD.
October 31, 2021	Sunday
November 2021 1 st Week November 01-07, 2021	(Haryana Day) Diwali Holidays
2 nd Week November 08-10, 2021	Computer hardware & software: I/O devices, definition of software, relationship between hardware and software
November 14, 2021	Sunday
3 rd Week November 15-17, 2021	Types of software, motherboard, ports, Overview of operating system: Definition, Functions of Operating System
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 22-24, 2021	Concept of multiprogramming, multitasking, multithreading, multiprocessing
November 28, 2021	Sunday
1 st Week November 29-30, December 01, 2021	Time-sharing, real time, single-user & multi-user operating system, examples of various operating systems
December 05, 2021	Sunday
2 nd Week December 06-08, 2021	Revision & Tests of Unit I
December 12, 2021	Sunday
3 rd Week December 13 -15, 2021	Revision & Tests of Unit II
December 19, 2021	Sunday

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October 2021 to February 2022)

Name of the Teacher–Ms. Prashantika P Sanduja

Class – B.Sc. CS 1st Semester

Subject-Computer & Programming Fundamentals (Paper – I)

4 th Week December 20-22, 2021	Planning the Computer Program: Concept of problem solving, Problem definition, Program design, Debugging
December 25, 2021 December 26, 2021	Christmas Sunday
5 th Week December 27-29, 2021	Types of errors in programming, Documentation, Techniques of Problem Solving: Flowcharting, algorithms, pseudo code, decision table
January 02, 2022	Sunday
January 2022 1 st Week January 03-05, 2022	Structured programming concepts, Programming methodologies viz. top-down and bottom-up programming
January 09, 2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd Week January 10-12, 2022	Searching, Sorting, and Merging: Linear & Binary Searching, Bubble Sorting,
January 16, 2022	Sunday
3 rd Week January 17-19, 2022	Selection Sorting, Insertion Sorting, Merging
January 23, 2022	Sunday
4 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2021 1 st Week 31 January 31, February 01-02, 2022	Computer Languages: Analogy with natural language, machine language, assembly language, high-level language
February 05, 2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 07-09, 2022	Language translators, characteristics of a good programming language
February 13, 2022	Sunday
3 rd Week February 14-15, 2022	Revision of all Syllabus

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October 2021 to February 2022)

Name of the Teacher–Ms. Prashantika P Sanduja

Class – B.Sc. CS 1st Semester

Subject- PC Software (Paper – II)

October 2021 3 rd Week October 14-16, 2021	Windows: Basics of Windows. Windows History, Basic components of windows, icons
October 15, 2021 October 17, 2021 October 20, 2021	Dussehra Sunday Maharishi Valmiki Jayanti
4 th Week October 21-23, 2021	Types of icons, taskbar, activating windows, using desktop, title bar, running applications
October 24, 2021	Sunday
5 th Week October 28-30, 2021	Windows explorer, managing files and folders, Configuring System devices. Control panel, using windows accessories
October 31, 2021	Sunday
November 2021 1 st Week November 01-07, 2021	Haryana Day Diwali Holidays
2 nd Week November 11-13, 2021	Documentation Using Word - Introduction to Office Automation, Creating & Editing Document.
November 14, 2021	Sunday
3 rd Week November 18 & 20, 2021	Formatting Document, Auto-text, Autocorrect, Spelling and Grammar Tool
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 25-27, 2021	Document Dictionary, Page Formatting, Bookmark, Advance Features of MS-Word-Mail
November 28, 2021	Sunday
1 st Week December 01-03, 2021	Merge, Macros, Tables, File Management, Printing, Styles, linking and embedding object
December 05, 2021	Sunday
2 nd Week December 09-11, 2021	Revision & Tests of Unit I
December 12, 2021	Sunday

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October 2021 to February 2022)

Name of the Teacher–Ms. Prashantika P Sanduja

Class – B.Sc. CS 1st Semester

Subject- PC Software (Paper – II)

3 rd Week December 16-18, 2021	Revision & Tests of Unit II
December 19, 2021	Sunday
4 th Week December 23-25, 2021	Electronic Spread Sheet using Excel - Introduction to MS-Excel, Creating & Editing Worksheet
December 25, 2021 December 26, 2021	Christmas Sunday
1 st Week December 30-31,2021 January 01,2022	Formatting and Essential Operations, Formulas and Functions, Charts,
January 02, 2022	Sunday
January 2022 2 nd Week January 06-08, 2022	Advance features of MS-Excel-Pivot table & Pivot Chart, Linking and Consolidation
January 09, 2022	Sunday (Sh. Guru Gobind Singh's Birthday)
3 rd Week January 13-15, 2022	Database Management using Excel-Sorting, Filtering, Table, Validation, Goal Seek, Scenario
January 16, 2022	Sunday
4 th Week January 20-22, 2022	Presentation using PowerPoint: Presentations, Creating, Manipulating & Enhancing Slides, Inserting Animated Pictures or Accessing through Object
January 23, 2022	Sunday
5 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2021 1 st Week February 03-05, 2022	Organizational Charts, Excel Charts, Word Art, Layering art Objects, Animations and Sounds, Inserting Recorded Sound Effect or In-Built Sound Effect.
February 05, 2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 10-12, 2022	Revision of Syllabus.
February 13, 2022	Sunday

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October 2021 to February 2022)

Name of the Teacher–Ms. Prashantika P Sanduja
Class – B.Com. CA 5th Semester
Subject- System Analysis and Design (BC (VOC) – 506)

October 2021 3 rd Week October 14-16, 2021	Introduction to System, Definition of system, characteristics of a system, elements of a system
October 15, 2021 October 17, 2021 October 20, 2021	Dussehra Sunday Maharishi Valmiki Jayanti
4 th Week October 21-23, 2021	Types of systems: Open & Closed systems, Deterministic and Probabalistic systems, Physical & Abstract systems, Man-made Information systems: Formal information system, informal information system
October 24, 2021	Sunday
5 th Week October 28-30, 2021	Computer based systems: transaction processing systems, management information systems, decision support systems, office automation systems
October 31, 2021	Sunday
November 2021 1 st Week November 01-07, 2021	Haryana Day Diwali Holidays
2 nd Week November 11-13, 2021	System development Life Cycle: Introduction, Phases, consideration for system planning and control for system success, role of system analyst, qualities of system analyst: academic and personal qualities
November 14, 2021	Sunday
3 rd Week November 18 & 20, 2021	System Planning & Investigation: Introduction, Basics of Planning, Dimensions of planning, project requests, User requirements and analysis, strategies for determining information requirement
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 25-27, 2021	Fact finding process and techniques: Introduction, fact finding techniques: Record Inspections, Interviews, Questionnaires, On-site Observation, Tools for structured analysis: Data Flow diagrams, Data dictionary, Pseudo codes, Flow charts, Decision Trees, Decision Tables, Gantt Charts
November 28, 2021	Sunday
1 st Week December 01-03, 2021	Feasibility study: Introduction, Objectives, Types of feasibility, steps in feasibility analysis, feasibility report, oral presentation, Cost-benefit analysis: Identification, Classification, selection of evaluation method
December 05, 2021	Sunday
2 nd Week December 09-11, 2021	System design: Introduction, Process of system design, Design Methodologies, Structured Design: Modularization, Top Down Design, Structure Charts, Module Coupling & Cohesion , structured Walkthrough.
December 12, 2021	Sunday

KVA DAV College for Women, Karnal
Lesson Plan Odd Semester
(October 2021 to February 2022)

Name of the Teacher–Ms. Prashantika P Sanduja
Class – B.Com. CA 5th Semester
Subject- System Analysis and Design (BC (VOC) – 506)

3 rd Week December 16-18, 2021	Input / Output & Form Design: Introduction, Objectives of Input Design, Input Data, Input Verification & Control, Design of Input Forms, Input CRT Screen designs, Output Design: Objectives, Output Technologies & Methods, Design of Output Reports, Designing Screen Outputs, Form design, Classification of forms, Requirements of form design, layout considerations, forms control
December 19, 2021	Sunday
4 th Week December 23-25, 2021	File structure, file Organization, Sequential file organization, direct file organization, Indexed Sequential file organization, definition of database, objectives of database design, logical & physical view of data
December 25, 2021 December 26, 2021	Christmas Sunday
1 st Week December 30-31, 2021 January 01, 2022	System Testing & Quality Assurance: Introduction, Definition & Objectives of Testing, Test Plan, Testing Techniques: Unit Testing, Integration Testing, Validation Testing- configuration Review, alpha & Beta Testing, System testing- Recovery, Security, stress, Performance Testing, Quality Assurance, Levels or Activities of Quality Assurance, Quality Assurance Goals in Systems Life Cycle.
January 02, 2022	Sunday
January 2022 2 nd Week January 06-08, 2022	System Implementation, Types of Implementation, Process of Implementation, Conversion, User Training, Post – Implementation Review, Maintenance: Types, Activities of Maintenance Process, Reducing Maintenance Costs
January 09, 2022	Sunday (Sh. Guru Gobind Singh's Birthday)
3 rd Week January 13-15, 2022	System Documentation, Characteristics of Good Documentation, forms of Documentation
January 16, 2022	Sunday
4 th Week January 20-22, 2022	Hardware / Software Selection: Procedure, Criteria, Evaluation Process
January 23, 2022	Sunday
5 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2021 1 st Week February 03-05, 2022	System security: Introduction, Essence of Data sEcurity, Threats to System security, control Measures, Recovery concepts, Disaster / Recovery Planning
February 05, 2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 10-12, 2022	Revision of whole syllabus
February 13, 2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- MS-15-32 Advanced Database System

Class- M.Sc. II Computer Science

October, 2021 3 rd Week 11 Oct-16 Oct	Introduction to Database Systems
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
4 th Week 18 Oct-23 Oct	Three- Schema Architecture and Data Independence
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week 25 Oct-30 Oct	ER Model Concepts, Naming Convention and Design Issues
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2nd Week 8 Nov-13 Nov	Extended ER Model, Subclasses, Superclasses, Inheritance
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Specialization and Generalization, Constraints on Specialization and Generalization
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Introduction to RDBMS, Relational Database system constraints

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- MS-15-32 Advanced Database System

Class- M.Sc. II Computer Science

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Introduction to object-oriented concepts, Object identity object structure
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Type constructors, Encapsulation of operations, Methods and Persistence
12 Dec, 2021	Sunday
3 rd week 13 Dec -18 Dec	Type Hierarchies and Inheritance, Complex Object.
19 Dec, 2021	Sunday
4 th Week 20 Dec-24 Dec	Steps to Query Processing and Optimization , Using Heuristics in Query Optimization
25 Dec, 2021 26 Dec, 2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Database Tuning in Relational System
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Architecture for parallel database, Distributed database concepts, Data fragmentation, Replication, and allocation techniques.
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher-Ms. Tarjeet Kaur

Subject- Computers

Paper- MS-15-32 Advanced Database System

Class- M.Sc. II Computer Science

2 nd week 10 Jan – 15 Jan	Overview of Client-Server Architecture, Active Database Concept
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Triggers, Temporal Databases Concepts
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Spatial and Multimedia Databases, Deductive Databases
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	XML Schema, Documents and Databases
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Introduction of Big Data, Classifications, The Simplest of Ontologies, Ontologies, Classes with Multiple Parents, Choosing a Class Model. Data Integration and Software Interoperability
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Versioning and Compliance Issues, Stepwise Approach to Big Data Analysis, Failures and Legalities.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- BCA-351: Web Designing Fundamentals

Class- BCA III

October, 2021 3 rd Week 11 Oct-16 Oct	Introduction to Internet
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
4 th Week 18 Oct-23 Oct	History, Applications of Internet, Advantages and Disadvantages World Wide Web; Evolution and History of World Wide Web
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week 25 Oct-30 Oct	Web Browsers, Types of web Browsers, Basic Features, Web Servers and its Working
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-13 Nov	Hypertext Transfer Protocol, URLs, Searching and Web-Casting Techniques, Search Engines and Search Tools
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Discuss Various Services of Internet, Revision and test of Unit-I
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Introduction to website Development. Steps for Developing Website; Choosing the Contents; Home Page; Domain Names; Internet Service Provider.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- BCA-351: Web Designing Fundamentals

Class- BCA III

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Web Publishing Tools, Hosting Website Revision of Unit 2 and test
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Introduction to HTML, History, Basic Structure of HTML document ,HTML Features
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Steps to Create HTML Document ,HTML Tags: Header, Title, Body, Paragraph.
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	TextStyles, Text Structuring using html tags, Text Colors
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Background; Formatting Text; Page layouts; Insertion ofText,Movement of Text
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Creating Hyperlinks. Practice of some Programmes using html basic tags
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher- Ms. Tarjeet Kaur

Subject- Computers

Paper- BCA-351: Web Designing Fundamentals

Class- BCA III

2 nd week 10 Jan – 15 Jan	Images: Types of Images, Insertion of Image, Movement of Image
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Creating Ordered and Unordered lists, Inserting Graphics, HTML Table, Using Functions like Columns, Rows, Width, Colours
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	Frame Creation and Layouts
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Frame Creation and Layouts
13 Feb ,2022	Sunday
3 rd week 14 Feb- 17 Feb	Working with Forms and Menus; Working with Buttons like Radio, CheckBox;

KVA DAV College for Women, Karnal

Lesson Plan Odd Semester

(October,2021 to February,2022)

Name of the Teacher–Ms. Tarjeet Kaur

Class- B.Sc. III CS

Paper-I (Fundamentals of Data Base Systems)

October 2021 3 rd Week October 11-13, 2021	Basic Concepts – Data, Information, Records and files. Traditional file Based Approach
October 15, 2021 October 17, 2021	(Dussehra) Sunday
4 th Week October 18-19, 2021	Limitations of Traditional File Based Approach Database Approach- Characteristics of Database Approach
October 20, 2021 October 24, 2021	Maharishi Valmiki Jayanti Sunday
5 th Week October 25-27, 2021	Database Management System (DBMS), Components of DBMS Environment
October 31, 2021	Sunday
November 2021 1 st Week November 01-07, 2021	(Haryana Day) Diwali Holidays
2 nd Week November 08-10, 2021	DBMS Functions and Components, Advantages and Disadvantages of DBMS.
November 14, 2021	Sunday
3 rd Week November 15-17, 2021	Actors on the Scene - Data and Database Administrator, Database Designers, End users Applications Developers and Workers behind the Scene.
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 22-24, 2021	Database System Architecture – Three Levels of Architecture, Schemas – External, Conceptual and Internal Level
November 28, 2021	Sunday
1 st Week November 29-30, December 01, 2021	Database Languages – VDL, DDL, SDL, DML, SQL, Mappings – External/ Conceptual and Conceptual/Internal
December 05, 2021	Sunday
2 nd Week December 06-08, 2021	Instances, Data Independence – Logical and Physical Data Independence
December 12, 2021	Sunday
3 rd Week December 13 -15, 2021	Data Models: High Level, Low Level and Representational – Records-based Data Models, Object-based Data Models, Physical Data Models and Conceptual Models
December 19, 2021	Sunday

KVA DAV College for Women, Karnal

Lesson Plan Odd Semester

(October,2021toFebruary,2022)

Name of the Teacher–Ms. Tarjeet Kaur

Class- B.Sc. III CS

Paper-I (Fundamentals of Data Base Systems)

4 th Week December 20-22, 2021	Entity-Relationship Model – Concepts, Entity Types, Entity Sets, Attributes, Relationships,
December 25, 2021 December 26, 2021	Christmas Sunday
5 th Week December 27-29, 2021	Constraints, Keys , Degree, Cardinality etc
January 02, 2022	Sunday
January 2022 1 st Week January 03-05, 2022	ER Diagrams of any Database Organization- Inventory System, Payroll System, Reservation System, Online Book Store etc.
January 09, 2022	Sunday(Sh. Guru Gobind Singh’s Birthday)
2 nd Week January 10-12, 2022	Classification of Database Management System, Centralized and Client Server architecture
January 16, 2022	Sunday
3 rd Week January 17-19, 2022	Relational Data Model:-Brief History, Terminology in Relational Data Structure, Relations, Properties of Relations
January 23, 2022	Sunday
4 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2021 1 st Week 31 January 31, February 01-02, 2022	Keys – Primary, Secondary, Composite, Candidate, Alternate and Foreign Key,
February 05, 2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 07-09, 2022	Domains, Integrity Constraints over Relations.
February 13, 2022	Sunday
3 rd Week February 14-15, 2022	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson Plan Odd Semester

(October,2021 to February,2022)

Name of the Teacher–Ms. Tarjeet Kaur

Class- B.Sc. III CS

Paper-II (Paper-II: Web Designing)

October 2021 3 rd Week October 14-16, 2021	Introduction to Internet and World Wide Web; Evolution and History of World Wide Web; Basic Features
October 15, 2021 October 17, 2021 October 20, 2021	Dussehra Sunday Maharishi Valmiki Jayanti
4 th Week October 21-23, 2021	Web Browsers; Web Servers; Hypertext Transfer Protocol; URLs
October 24, 2021	Sunday
5 th Week October 28-30, 2021	Searching and WebCasting Techniques; Search Engines and Search Tools
October 31, 2021	Sunday
November 2021 1 st Week November 01-07, 2021	Haryana Day Diwali Holidays
2 nd Week November 11-13, 2021	Steps for Developing Website; Choosing the Contents; Home Page; Domain Names
November 14, 2021	Sunday
3 rd Week November 18 & 20, 2021	Internet Service Provider; Planning and Designing Web Site; Creating a Website; Web Publishing: Hosting Site;
November 19, 2021 November 21, 2021	Guru Nanak Dev Ji's Birthday Sunday
4 th Week November 25-27, 2021	Introduction to HTML; Hypertext and HTML; HTML Document Features; HTML Tags; Header, Title, Body, Paragraph
November 28, 2021	Sunday
1 st Week December 01-03, 2021	Ordered/Unordered Line, Creating Links; Headers; Text Styles
December 05, 2021	Sunday
2 nd Week December 09-11, 2021	Text Structuring; Text Colors and Background
December 12, 2021	Sunday
3 rd Week December 16-18, 2021	Formatting Text; Page layouts; Insertion of Text, Movement of Text
December 19, 2021	Sunday

KVA DAV College for Women, Karnal

Lesson Plan Odd Semester

(October,2021toFebruary,2022)

Name of the Teacher–Ms. Tarjeet Kaur

Class- B.Sc. III CS

Paper-II (Paper-II: Web Designing)

4 th Week December 23-25, 2021	Images: Types of Images, Insertion of Image, Movement of Image, Ordered and Unordered lists
December 25, 2021 December 26, 2021	Christmas Sunday
1 st Week December 30-31,2021 January 01,2022	Inserting Graphics; Table Handling Functions like Columns, Rows, Width, Colours
January 02, 2022	Sunday
January 2022 2 nd Week January 06-08, 2022	Frame Creation and Layouts, Communication between frames
January 09, 2022	Sunday(Sh. Guru Gobind Singh's Birthday)
3 rd Week January 13-15, 2022	Practice of developing Web Pages.
January 16, 2022	Sunday
4 th Week January 20-22, 2022	Revision and Test
January 23, 2022	Sunday
5 th Week January 24-29, 2022	Sessional Exam
January 26, 2022 January 30, 2022	Republic Day Sunday
February 2021 1 st Week February 03-05, 2022	Working with Forms and Menus; Working with Buttons like Radio, Check Box
February 05, 2022 February 06, 2022	Vasant Panchmi Sunday
2 nd Week February 10-12, 2022	Revision of Syllabus.
February 13, 2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms.Megha

Subject- Computers

Paper-Artificial Intelligence

Class- BCA-III

14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Artificial Intelligence, Intelligence, AI concepts, Various definitions of AI, Knowledge, Knowledge pyramid, people and Computers :What Computer scan do better than people, What people can do better than computers.
Nov 19,2021 Nov 21,2021	Guru Nanak Dev Ji's Birthday Sunday
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Characteristics of AI problems, Problems Representation in AI ,Components of AI,AI evolution, Application of AI, History of AI, The Turing test, The Revised Turing Test.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms.Megha

Subject- Computers

Paper- Artificial Intelligence

Class- BCA-III

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Expert system: Components of Expert System, Knowledge Base, Inference Engine, User Interface, Features of Expert System, ExpertSystem Life cycle.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Categories of Expert System, Rule Based vs Model Based Expert System.
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Advantages and Limitations of Expert System, Developing an Expert System, Identification, conceptualization.
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Formalization , Implementation, testing, using an expert system , Application area of expert systems.
25 Dec,2021 26 Dec,2021	Christmas Sunday
1 st Week 27 Dec -01 Jan	AI and Search process: Brute Force Search-Depth/Breadth First Search, Heuristic Search: Hill Climbing ,Constraint Satisfaction.
2 Jan ,2022	Sunday
Jan ,2022 2 nd week 3 Jan – 8 Jan	Mean End Analysis, Best First Search, A*Algorithm, AO*Algorithm,Beam Search.
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms.Megha

Subject- Computers

Paper- Artificial Intelligence

Class- BCA-III

3 rd week 10 Jan – 15 Jan	Natural Language Processing: Introduction, need.
16 Jan ,2022	Sunday
4 th week 17 Jan – 22 Jan	Goals of Natural Language Processing, Fundamental Problems in Natural Language Processing.
23 Jan ,2022	Sunday
5 th Week 24 Jan – 29 Jan	Sessionals
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	How people overcome Natural Language Processing , Introduction of Speech Recognition, Advantages ,Approaches.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Introduction to Robotics, Parts of Robot, Controlling a Robot, Intelligent Robots, Mobile Robots.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of all syllabus.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms.Megha

Subject- Computers

Paper- DBMS

Class- BCA II

3 rd Week 15 Nov-20 Nov	Basic Concepts- Data, Information, record and files, Traditional file based System, file based approach-limitations of File based Approach, database approach.
Nov 19,2021 Nov 21,2021	Guru Nanak Dev Ji's Birthday Sunday
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Characteristics of database approach, DBMS, Components of DBMS environment, DBMS functions and Components, advantages and disadvantages of DBMS,

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms.Megha

Subject- Computers

Paper- DBMS

Class- BCA II

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Roles in the database Environment, Data and database Administrator, database designers, application developers and users. database system architecture.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Three levels of Architecture, External, Conceptual and internal levels, schemas, mappings and instances, data Independence. Logical and physical Data Independence
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Classifications of DBMS, centralized and client server architecture to DBMS. Data Models, Record based data models,
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Object based data models, Physical data models, Data Models, and conceptual modelling
25 Dec,2021 26 Dec,2021	Christmas Sunday
1 st Week 27 Dec -01 Jan	E-R models, entity types, Entity sets, Attributes, Relationship types, Relationship Instances .
2 Jan ,2022	Sunday
Jan ,2022 2 nd week 3 Jan – 8 Jan	E-R Diagrams ,Relational data models, brief history,
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms. Ms.Megha

Subject- Computers

Paper- DBMS

Class- BCA II

3 rd week 10 Jan – 15 Jan	Terminology in relational data structure, relations and properties of relations, keys, domains.
16 Jan ,2022	Sunday
4 th week 17 Jan – 22 Jan	Integrity constraints over relations.
23 Jan ,2022	Sunday
5 th Week 24 Jan – 29 Jan	Sessionals.
26 Jan, 2022	Republic Day
30 Jan ,2022	Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	Base tables and views.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Basic concept of hierarchical and network data models.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of all Syllabus.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms.Megha

Subject- Computers

Paper- Computer Fundamentals

Class- BBA-1

3 rd Week 15 Nov-20 Nov	Introduction to computers, Introduction, Component.
Nov 19,2021 Nov 21,2021	Guru Nanak Dev Ji's Birthday Sunday
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Types and Brief History of Computers, Generation of Computers.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms.Megha

Subject- Computers

Paper- Computer Fundamentals

Class- BBA-1

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Computer Memory, Software and Hardware.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Operating system, An Overview, Types, Functions, language.
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Low, High level languages, language Processor, Assembler ,Compiler.
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Interpreters, Networks-LAN, MAN,WAN.
25 Dec,2021 26 Dec,2021	Christmas Sunday
1 st Week 27 Dec -01 Jan	Number System, CUI vs. GUI.
2 Jan ,2022	Sunday
Jan ,2022 2 nd week 3 Jan – 8 Jan	Windows-Features, Types.
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(November 2021 to February, 2022)

Name of the Teacher – Ms.Megha

Subject- Computers

Paper- Computer Fundamentals

Class- BBA-1

3 rd week 10 Jan – 15 Jan	Introduction to Internet, Internet Basics.
16 Jan ,2022	Sunday
4 th week 17 Jan – 22 Jan	Benefits and limitations of Internet, Application and Scope.
23 Jan ,2022	Sunday
5 th Week 24 Jan – 29 Jan	Sessionals
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	IP Address, Browser.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	WWW, E-Mail, Video –Conferencing.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of all syllabus

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(October, 2021 to February, 2022)

Name of the Teacher – Ms. Nidhi

Class-M.Sc. 1st Sem

Subject- Web Engineering

3 rd Week 16 Nov-20 Nov	Introduction to Web Engineering: Categories and Characteristics of Web Applications
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Web Applications Vs Conventional Software, Need for an Engineering Approach, Web Essentials: The Internet, Basic Internet Protocols, WWW, HTTP (Structure of Request and Response Messages)
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Web Browser and its functions, URL, Web Servers and their features Defining Virtual Hosts, Secure Servers
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	MarkUp Languages: Introduction to HTML, Characteristics, XHTML Syntax and Semantics
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Fundamental HTML Elements, Lists, Tables, Frames, Forms, XHTML Abstract Syntax, Creating HTML Pages
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Cascading Style Sheets: Features, Core Syntax, Types, Style Sheets andHTML, Style Rule Cascading and Inheritance, Text Properties
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	CSS Box Model, Normal Flow Box Layout, Positioning and other useful Style Properties
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Client–Side Programming: Introduction to JavaScript, Perspective, Basic Syntax, Variables and Data types
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh’s Birthday)
2 nd week 10 Jan – 15 Jan	JavaScript Statements, Operators, Literals, Functions, Objects, Arrays,Built-in Objects, Debuggers, Server-Side Programming: ServletArchitecture, Generating Dynamic Content, Servlet Life Cycle
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Sessions, Cookies, URL Rewriting, Servlet Capabilities, Servlets and Concurrency, XML: Relation between XML, HTML, SGML, Goals ofXML, Structure and Syntax of XML, Well Formed XML
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic DaySunday
1 st week 1 Feb-4 Feb	DTD and its Structure, Namespaces and Data Typing in XML, XPATH, Template based Transformations,
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Linking with XML, Displaying XML documents in Browsers
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of the syllabus Problems taken from students

KVA DAV College for Women, Karnal

Lesson plan for the odd semester

(October, 2021 to February, 2022)

Name of the Teacher – Ms. Nidhi

Class-BCA 1st Sem

Subject- Programming in C

3 rd Week 16 Nov-20 Nov	History of C, Importance of C, Structure of a C Program.
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	C character set, identifiers and keywords, Data types, Constants and Variables, Assignment statement, Symbolic constant.
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Input/output: Unformatted & formatted I/O function in C, Input functions scanf(), getch(), getche(), getchar(), gets()), Output functions printf(), putchar(), puts() .
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators.
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Operators & Expression: Arithmetic, relational, logical, bitwise, unary, assignment, conditional operators and special operators. & Group Discussion.
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Decision making & branching: Decision making with IF statement, IF-ELSE statement, Nested IF statement, ELSE -IF ladder, switchstatement, goto statement.
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Decision making & looping: While and do-while loop
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Looping: For, jumps in loops, break, continue statement.
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Functions: Definition, prototype, Passing parameters to functions,Recursion & its uses
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Revisions ,Discussions & Tests
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic DaySunday
1 st week 1 Feb-4 Feb	Storage classes in C: auto, extern, register and static storage class, their scope, storage, & lifetime.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Arrays: Definition, types, initialization, processing an array, passingarrays to functions,
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Strings and its inbuilt functions, and how to use string as parametersand use with pointers.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Nidhi

Class-BCA 5th Sem

Subject- Multimedia Tools

3 rd Week 16 Nov-20 Nov	Multimedia: Basic Concept, Definition, Components & Applications of Multimedia;
21 Nov, 2021	Sunday
4 th Week 22 Nov-27	Hypermedia and Multimedia, Multimedia Hardware and Software; Multimedia Software Tools;
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Presentation Tools, Multimedia Authoring: Introduction, Features, Types of Authoring Tools: Card or Page-Based,
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Icon-Based, Time-Based, Object-Oriented; VRML: History, Features
12 Dec, 2021	Sunday
3 rd week 13 Dec -18 Dec	Images: Graphics/Image Data Types, File Formats; Color Models in Images and Video;
19 Dec, 2021	Sunday
4 th Week 20 Dec-24 Dec	Video: Introduction, Types of Video Signals; Analog and Digital Video; Analog Video Standards:
25 Dec, 2021 26 Dec, 2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	NTSC, PAL, SECA; Digital Video Standards: Chroma Subsampling, CCIR Standards, HDTV
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Digital Audio: Basic Concepts, Analog vs. Digital Audio, Digitization of Sound; Digital Audio File Formats, MIDI
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Quantization and Transmission of Audio: Coding of Audio; Pulse Code Modulation; Differential
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Coding of Audio; Lossless Predictive Coding; DPCM; DM; ADPCM, Compression Techniques: Introduction, Types of Data Compression,
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan, 31 Jan	Sessional Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2021 1 st week 1 Feb-4 Feb	Run-Length Coding, Variable-Length Coding, Dictionary-Based Coding, Transform Coding
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Image and Video Compression Techniques: JPEG Standard for Image, Compression; JPEG Mode,
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Video Compression Techniques: H.261, H.263, MPEG, Revision of Syllabus and Class Tests

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet kaur

Subject- Advanced Operating System

Paper- MS-15-34

Class- M.Sc. III Sem

October, 2021 2 nd Week 11 Oct-16 Oct	Introduction to Distributed Systems, Hard ware concepts, Software concepts, Design issues
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
3 rd Week 18 Oct-23 Oct	Communication in Distributed Systems, Lay red Protocols, ATM networks, Remote Procedure call
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
May, 2021 4 th Week 25 Oct-30 Oct	The Client – server model, Group communication. Synchronization in Distributed System, Clock Synchronization
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2nd Week 8 Nov-13 Nov	Mutual Exclusion, Election algorithms, Atomic transactions, Deadlocks in Distributed Systems.
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Process and processors in Distributed System Threads, System Models, Processors allocation.
19 Nov,2021 21 Nov, 2021	Sh. Guru Nanak Jayanti Sunday
4 th Week 22 Nov-27	Scheduling in Distributed System, Fault tolerance, Distributed File Systems, Assignment-1

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet Kaur

Subject- Advanced Operating System

Paper- MS-15-34

Class- M.Sc. III Sem

28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Revision and Test
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Distributed File System Design Distributed File System implementation, Trends in Distributed File System.
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Distributed Shared Memory: Introduction, Consistency models Page based Distributed Shared memory. Assignment-2
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Shared – variable Distributed Shared memory, Object based Distributed Shared Memory.
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	REAL TIME AND MOBILE OPERATING SYSTEMS : Basic Model of Real Time Systems, Characteristics, Applications of Real Time Systems,
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Revision and Test
9 Jan ,2022	Sunday
2 nd Week 10 Jan – 15 Jan	Real Time Task Scheduling, Scheduling Algorithms, Handling Resource Sharing,
16 Jan ,2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet Kaur

Subject- Advanced Operating System

Paper- MS-15-34

Class- M.Sc. III Sem

3 rd week 17 Jan – 22 Jan	Mobile Operating Systems , Memory Management in Mobile Operating System
23 Jan ,2022	Sunday
4 th Week 24 Jan – 28 Jan 29 Jan	Problems Sessional
30 Jan ,2022	Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	Micro Kernel Design, Client Server Resource Access.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Processes and Threads : Introduction, management, PCB,TCB Seminar
13 Feb ,2022	Sunday
3 rd week 14 Feb- 18 Feb	Revision of Important Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet Kaur

Subject- Computer Applications in Business

Paper- MC 301

Class- M.Com III Sem

October, 2021 2 nd Week 11 Oct-16 Oct	Computer System: Meaning, scope, types; Basic computer organization: Central Processing Unit
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
3 rd Week 18 Oct-23 Oct	Input/ output and storage devices
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
4 th Week 25 Oct-30 Oct	Introduction to software: System software - operating system, user interface and its types
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-13 Nov	Application software - word processing, Features, Advantages, Disadvantages, Application
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	Application software :spreadsheets, Features, Advantages, Disadvantages, Application
19 Nov,2021 21 Nov, 2021	Sh. Guru Nanak Jayanti Sunday
4 th Week 22 Nov-27	Revision And Class Test Assignment-1
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Introduction to databases, tables, queries, reports and form generation.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Revision of Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet Kaur

Subject- Computer Applications in Business

Paper- MC 301

Class- M.Com III Sem

12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Information Technology in Business: Introduction, Concept of information technology, Uses, Need of IT. Assignment-2
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Networking: Local Area Network–media & topologies and Wide Area Networks- media & topologies
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Revision and Class Test
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Internet: Intranet and extranet, concept and evolution;
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Fuzzy Logic: Introduction, Fuzzy set, Crisp set, fuzzy logic, Applications
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Revision of the above Topics And problems
23 Jan ,2022	Sunday
4 th Week 24 Jan 25 Jan– 29 Jan	Sessional World Wide Web, Multimedia technologies; Video conferencing;
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 31 Jan - 4 Feb	Electronic data processing: Introduction, Methods, Applications, Advantages, Disadvantages.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet Kaur
Subject- Computer Application in Business
Paper- MC 301
Class- M.Com III Sem

5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Broadband networks; Planning and designing web pages.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of Important Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet kaur

Subject- Web Technology

Paper- BC (Voc)-505

Class- BC (Voc) - V Sem

October, 2021 2 nd Week 11 Oct-13 Oct	Internet basic , Introduction to HTML- tags- list - creating table
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
3 rd Week 18 Oct-21 Oct	Linking: Document frames , graphics to HTML doc, Hyperlinks
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
4 th Week 25 Oct-27 Oct	Style sheet - style sheet basic - add style to document - creating style sheet rules
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-10 Nov	Style sheet properties – Font, Text, list - color and background color
14 Nov, 2021	Sunday
3 rd Week 15 Nov-17 Nov	Box - display properties, Links
19 Nov, 2021 21 Nov, 2021	Sh. Guru Nanak Jayanti Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet kaur

Subject- Web Technology

Paper- BC (Voc)-505

Class- BC (Voc) - V Sem

4 th Week 22 Nov-24	Revision And Class Test Assignment-1
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-1 Dec	Introduction to Java Script - advantage of Java Script - JavaScript syntax - data types
05 Dec, 2021	Sunday
2 nd Week 06 Dec -08 Dec	Java Script : variable , operator and expression
12 Dec,2021	Sunday
3 rd week 13 Dec -15 Dec	Java script -array looping constructor Assignment-2
19 Dec,2021	Sunday
4 th Week 20 Dec-22Dec	Functions – dialog box, Constructors
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -29 Dec	Event handling – Event handling using java script Object in HTML - build in object
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 5 Jan	Java Script document object model – user defined object
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 12 Jan	form object, navigator object
16 Jan ,2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet kaur

Subject- Web Technology

Paper- BC (Voc)-505

Class- BC (Voc) - V Sem

3 rd week 17 Jan – 19 Jan	Window object, document object, browser object Revision and Problems
23 Jan ,2022	Sunday
4 th Week 24 Jan 25 Jan	Revision Sessional
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 31 Jan-2 Feb	Screen object, cookies.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 9 Feb	Revision of all Topics
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet kaur

Subject-Fundamentals of E- Commerce

Paper- BBA-304

Class- BBA V Sem

October, 2021 2 nd Week 11 Oct-16 Oct	Overview of e-commerce:- Definition, benefits of e-commerce, role of internet in e-commerce, Applications
15 Oct, 2021 17 Oct, 2021	(Dussehra) Sunday
3 rd Week 18 Oct-23 Oct	Implications of e-commerce for accounting professionals. Regulatory environment:- cryptography issues
20 Oct, 2021 24 Oct, 2021	Maharishi Valmiki Jayanti Sunday
4 th Week 25 Oct-30 Oct	privacy issues (children’s issues, adults rights), domain name disputes, electronic agreements & digital signatures
31 Oct, 2021	Sunday
November, 2021 1 st Week 1 Nov-7 Nov	(Haryana Day) Diwali Holidays
2 nd Week 8 Nov-13 Nov	Internet service provider, firewalls, components of firewall
14 Nov, 2021	Sunday
3 rd Week 15 Nov-20 Nov	limitations of the security preventions provide By firewalls, OSI Model
19 Nov, 21 Nov, 2021	Sh. Guru Nanak Jayanti Sunday
4 th Week 22 Nov-27	TCP/IP Assignment-1
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Revision and Test

KVA DAV College for Women, Karnal

Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet kaur

Subject- Fundamentals of E- Commerce

Paper- BBA-304

Class- BBA V Sem

05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Revision and Problems
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	EDI e-commerce & internet:- traditional EDI systems(origin, non EDI systems), value added networks. Assignment-2
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	partially & fully integrated EDI systems, benefits of EDI systems
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Financial EDI & EDI systems & internet.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Revision and Test
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Intelligent agents, web based marketing
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Revision of topics and Problems
23 Jan ,2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester
(October, 2021 to February, 2022)

Name of the Teacher – Ms. Ravneet kaur

Subject- Fundamentals of E- Commerce

Paper- BBA-304

Class- BBA V Sem

4 th Week 24 Jan 25 Jan – 29 Jan	Sessional Risk management: Introduction , Risk management paradigm
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 1 Feb-4 Feb	Risk management: Role of internet, Controls in risk management
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Revision of Full syllabus
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of Full syllabus and Problems

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper- Paper-I

Subject- Computer and Programming Fundamentals

Class- B.A-I (CS)

3 rd Week 15 Nov-17 Nov	Computer Fundamentals: Definition, Functional Components of Computer Characteristics & Classification of Computers,
19 Nov,2021 21 Nov, 2021	Guru Nanak Jayanti Sunday
4 th Week 22 Nov-24 Nov	Applications of Computers in various Fields. Memory: Types of ROM, Cache memory, CPU Registers
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-01 Dec	Sequential & direct access devices,
05 Dec, 2021	Sunday
2 nd Week 06 Dec -8 Dec	Magnetic tape, CD, DVD. Class test of Unit-I
12 Dec,2021	Sunday
3 rd week 13 Dec -15 Dec	Computer I/O devices, Overview of Operating System: Definition, Functions of Operating system
19 Dec,2021	Sunday
4 th Week 20 Dec-22 Dec	Concept of multiprogramming, multitasking, multithreading, multiprocessing, time sharing, real time.
25 Dec,2021 26 Dec,2021	Christmas Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper- Paper-I

Subject- Computer and Programming Fundamentals

Class- B.A-I (CS)

5 th Week 27 Dec -29 Dec	Planning the computer program: Concepts of problem solving, Problem definition
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 5 Jan	Program design, debugging, types of errors in programming, documentation. Techniques of problem solving: Flowcharting, algorithms
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 12 Jan	Programming methodologies top-down and bottom up programming. Searching, linear & Binary Searching.
16 Jan ,2022	Sunday
3 rd week 17 Jan – 19 Jan	Sorting: Bubble selection, and insertion sorting, Merging.
23 Jan ,2022	Sunday
4 th Week 24 Jan – 25 Jan	Revision of Important Topics
29 Jan	Sessional
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 31 Jan-2 Feb	Computer languages: machine language assembly language, high level language.

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Subject- Computer and Programming Fundamentals

Paper- Paper-I

Class- B.A-I (CS)

5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 9 Feb	Revision of Important Topics
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of Syllabus and Class Tests

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper- Paper-II

Subject- PC Software

Class- B.A-I (CS)

3 rd Week 18 Nov-20 Nov	Windows: Basics, components of windows
19 Nov,2021 21 Nov, 2021	Guru Nanak Jayanti Sunday
4 th Week 25 Nov-27 Nov	Configuring system devices. Control panel, using windows accessories.
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 2 Dec-4 Dec	Documentation using word- introduction to office automation, creating & editing document, formatting document, auto-text, autocorrect, spelling and grammar tool
05 Dec, 2021	Sunday
2 nd Week 09 Dec -11 Dec	Document dictionary, page formatting, bookmark Advance features of MS-Word-Mail Merge, Macros, Tables
12 Dec,2021	Sunday
3 rd week 16 Dec -18 Dec	File Management, Printing , styles, Linking and embedding object
19 Dec,2021	Sunday
4 th Week 23 Dec-24 Dec	Revision of the above Topics
25 Dec,2021 26 Dec,2021	Christmas Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper- Paper-II

Subject- PC Software

Class- B.A-I (CS)

5 th Week 30 Dec -01 Jan	Electronic Spread Sheet using Excel- Introduction to MS-Excel, creating & Editing worksheet
2 Jan ,2022	Sunday
Jan ,2022 1 st week 6 Jan – 8 Jan	Formatting and essential, Operations, formulas and functions, charts
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 13 Jan – 15 Jan	Advance features of MS-excel-pivot table & pivot chart,
16 Jan ,2022	Sunday
3 rd week 20 Jan – 22 Jan	Linking and consolidation, database Magement using excel-sorting, filtering, table, validation, Goal Seek, Scenario.
23 Jan ,2022	Sunday
4 th Week 27 Jan – 29 Jan	Presentation using PowerPoint: presentations, creating, Manipulating & Enhancing Slides
25 Jan,2022	Sessional
26 Jan, 2022	Republic Day
30 Jan ,2022	Sunday
Feb, 2022 1 st week 3 Feb - 5 Feb	Discuss of important topics for Exam

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper- Paper-II

Subject- PC Software

Class- B.A-I (CS)

5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 10 Feb- 12 Feb	Organizational Charts, Excel Charts, Word Art, Layering art objects, Object, inserting recorded sound effect or in built sound effect.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of important Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code-BBA-205

Subject- Fundamentals of DBMS and ORACLE

Class- BBA-3rd Sem

3 rd Week 18 Nov-20 Nov	Basic Concepts Traditional file oriented approach: Advantages Disadvantages,
19 Nov,2021 21 Nov, 2021	Guru Nanak Jayanti Sunday
4 th Week 25 Nov-27 Nov	Advantages of Database approach, Components of DBMS Advantages and Disadvantages of DBMS
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 2 Dec -04 Dec	DBMS Architecture
05 Dec, 2021	Sunday
2 nd Week 09 Dec -11 Dec	Data Independence, Data Models, Keys. Computers: An introduction, use of computer in business, advantages and disadvantages
12 Dec,2021	Sunday
3 rd week 16 Dec -18 Dec	computerized system for inventory control, payroll order, banking and accounting
19 Dec,2021	Sunday
4 th Week 23 Dec-24 Dec	Revision and Class Test
25 Dec,2021 26 Dec,2021	Christmas Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code-BBA-205

Subject- Fundamentals of DBMS and ORACLE

Class- BBA-3rd Sem

5 th Week 30 Dec -01 Jan	SQL using ORACLE: Introduction to SQL, Components of SQL: DDL, DML & DCL
2 Jan ,2022	Sunday
Jan ,2022 1 st week 6 Jan – 8 Jan	Data types in SQL, DDL Commands: Create, Alter, Drop, and Truncate. Creating queries with DDL commands and implementing constraints.
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 13 Jan – 15 Jan	DML Commands: Insert, Delete, Update, Select, Select with Group by and Order by. Creating queries with DML commands
16 Jan ,2022	Sunday
3 rd week 20 Jan – 22 Jan	Revision of above Topics and Class Test
23 Jan ,2022	Sunday
4 th Week 27 Jan – 29 Jan	Operators: Set and Logical, SQL functions: Numeric functions, Scalar functions and Group functions
25 Jan,2022	Sessional
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 3 Feb -5 Feb	Revision of important Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code-BBA-205

Subject- Fundamentals of DBMS and ORACLE

Class- BBA-3rd Sem

5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 10 Feb- 12 Feb	Report-Writing: Commands, advantages of Report writing.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of important Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper- Paper-II

Subject- Fundamentals of Database Systems

Class- B.A-5th Sem (CS)

3 rd Week 15 Nov-20 Nov	Basic Concepts – Data, Information, Records and files. Traditional file Based Approach- Limitations of Traditional File Based Approach, Database Approach- Characteristics of Database
19 Nov,2021 21 Nov, 2021	Guru Nanak Jayanti Sunday
4 th Week 22 Nov-27	Database Management System (DBMS), Advantages and Disadvantages , Components of DBMS .
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-04 Dec	Actors on the Scene - Data and Database Administrator, Database Designers, End users Applications Developers and Workers behind the Scene.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Database System Architecture – Three Levels of Architecture, Schemas – External, Conceptual and Internal Level
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Revision of important topics Class Test
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Data Independence – Logical and Physical Data Independence
25 Dec,2021 26 Dec,2021	Christmas Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper- Paper-II

Subject- Fundamentals of Database Systems

Class- B.A-5th Sem (CS)

5 th Week 27 Dec -01 Jan	Data Models: High Level, Low Level and Representational – Records-based Data Models
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Object-based Data Models, Physical Data Models and Conceptual Models
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Entity-Relationship Model – Concepts, Entity Types, Entity Sets, Attributes, Relationships
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	ER Diagrams of any Database Organization- Inventory System, Payroll System, Reservation System, Online Book Store etc.
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Revision and Problems
27 Jan,2022	Sessional
26 Jan, 2022	Republic Day
30 Jan ,2022	Sunday
Feb, 2022 1 st week 31 Jan-4 Feb	Relational Data Model:-Brief History, Terminology in Relational Data Structure

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper- Paper-II

Subject- Fundamentals of Database Systems

Class- B.A-5th Sem (CS)

5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Revision of Syllabus and Class Tests
13 Feb ,2022	Sunday
3 rd week 14 Feb- 19 Feb	Revision of all Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code- BC-104

Subject- Computer Applications in Business

Class- B.Com 1st Sem (General)

3 rd Week 15 Nov-17 Nov	Introduction to Computers: definition, components
19 Nov,2021 21 Nov, 2021	Guru Nanak Jayanti Sunday
4 th Week 22 Nov-24 Nov	Characteristics of computers
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov-1 Dec	Input and output Devices
05 Dec, 2021	Sunday
2 nd Week 06 Dec -8 Dec	Memory and mass storage devices; Introduction to modern CPU and processors.
12 Dec,2021	Sunday
3 rd week 13 Dec -15 Dec	Computer software: introduction, types of software: system, application and utility software
19 Dec,2021	Sunday
4 th Week 20 Dec-22 Dec	Introduction to operating system: types and function of operating system
25 Dec,2021 26 Dec,2021	Christmas Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code- BC-104

Subject- Computer Applications in Business

Class- B.Com 1st Sem (General)

5 th Week 27 Dec -29 Jan	Real-time applications: Operating systems for Tabs, mobile phones, Android, etc.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 5 Jan	Open source software: An overview Application software: Spreadsheets
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 12 Jan	Word processors
16 Jan ,2022	Sunday
3 rd week 17 Jan – 19 Jan	Database Management software
23 Jan ,2022	Sunday
4 th Week 24 Jan – 25 Jan	Revision and Problems
29 jan-2022	Sessional
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 31 Jan-2 Feb	Networks basic, types of networks, topologies, media

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code- BC-104

Subject- Computer Applications in Business

Class- B.Com 1st Sem (General)

5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 9 Feb	Discuss important topics for Exam
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code- BC-104

Subject- Computer Applications in Business

Class- B.Com 1st Sem (ASPSM)

3 rd Week 18 Nov-20 Nov	Introduction to Computers: definition, components
19 Nov,2021 21 Nov, 2021	Guru Nanak Jayanti Sunday
4 th Week 25 Nov-27	Characteristics of computers
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 2 Dec-4 Dec	Input and output Devices
05 Dec, 2021	Sunday
2 nd Week 9 Dec -11 Dec	Memory and mass storage devices; Introduction to modern CPU and processors.
12 Dec,2021	Sunday
3 rd week 16 Dec -18 Dec	Computer software: introduction, types of software: system, application and utility software
19 Dec,2021	Sunday
4 th Week 23 Dec-25 Dec	Introduction to operating system: types and function of operating system
25 Dec,2021 26 Dec,2021	Christmas Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code- BC-104

Subject- Computer Applications in Business

Class- B.Com 1st Sem (ASPSM)

5 th Week 30 Dec -01 Jan	Real-time applications: Operating systems for Tabs, mobile phones, Android, etc.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 6 Jan – 8 Jan	Open source software: An overview Application software: Spreadsheets
9 Jan ,2022	Sunday (Sh. Guru Gobind Singh's Birthday)
2 nd week 13 Jan – 15 Jan	Word processors
16 Jan ,2022	Sunday
3 rd week 20 Jan – 22 Jan	Database Management software
23 Jan ,2022	Sunday
4 th Week 27 Jan – 29 Jan	Revision and Problems
27 jan-2022	Sessional
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2022 1 st week 3 Feb- 5 Feb	Networks basic, types of networks, topologies, media

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (October, 2021 to February, 2022)

Name of the Teacher – Ms.Gurcharan Kaur

Paper Code- BC-104

Subject- Computer Applications in Business

Class- B.Com 1st Sem (ASPSM)

5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 10 Feb- 12 Feb	Discuss important topics for Exam
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Topics

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (November, 2021 to February, 2022)

Name of the Teacher – Ms. Leena

Subject- Computers

Paper- Computer Networks (BCA-354)

Class- BCA-III

3 rd Week 16 Nov-20 Nov	Network Design issues and protocols, Connection-Oriented and Connectionless Services, OSI Reference Model, Networking Models Distributed Systems etc.
19 Nov, 2021	Sunday
21 Nov, 2021	Guru Nanak Dev Ji's Birthday
4 th Week 22 Nov-27 Nov	Client/Server Model, Peer-to-Peer Model, Web Based Model and Emerging File-Sharing Model, Analog and Digital data Signals.
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov -04 Dec	Bandwidth and Data Rate, Capacity, Baud Rate, Transmission Impairment, Data Rate Limits, Guided Transmission Media, Wireless Transmission.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Using Communication Satellites, Switching and Multiplexing, Modulation Techniques, ADSL and Cable Modems.
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Data Link Layer Design issues, Error Detection and Correction, Sliding Window Protocols, One-bit, Go Back N and Selective Repeat.
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Media Access Control, ALOHA, Slotted ALOHA, CSMA.
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec-01 Jan	Collision free protocols.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Gigabit Ethernet, Token Ring, Introduction to Wireless LANs and Bluetooth, VLANs.
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Routing Algorithms, Flooding, Shortest Path Routing, Distance Vector Routing, Link State Routing.
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	Hierarchical Routing, Congestion Control, Traffic Shaping, Choke Packets,

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Lesson plan for the odd semester (November, 2021 to February, 2022)

Name of the Teacher – Ms. Leena

Subject- Computers

Paper- Computer Networks (BCA-354)

Class- BCA-III

23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Sessionals Exam
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2021 1 st week 31 Jan -4 Feb	Load Shedding, Elements of Transport protocols, Network Security.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Security Issues, Security Attacks, Encryption methods, Digital Signature, Digital Certificate.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (November, 2021 to February, 2022)

Name of the Teacher – Ms. Leena

Subject- Computers

Paper- Visual Basic (BCA-355)

Class- BCA III

3 rd Week 16 Nov-20 Nov	Menu bar, Toolbar, Project explorer, Tollbox, Properties Window.
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 22 Nov-27 Nov	Form Designer, Form Layout, Immediate Window.
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov -04 Dec	Basics of Programming, Default Controls in Tool Box Visual Development and Event Driven Programming.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Converting Variables Types, Variables, Declaring Variables, Types of Variables.
12 Dec,2021	Sunday
3 rd week 13 Dec -18 Dec	Constants Named & Intrinsic, User Defined Data Types, Forcing Variable Declaration, Scope and Lifetime Variables.
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	If Statement, Arithmetic, Relational & Logical Operators, Input/Output in VB, Various Controls for I/O, Message box, Input Box, Print statement.
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Exit statement, If-then-else Statement, select-case, Looping Statements in VB, do-loop, for-next, while-wend.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Nested Control Structure, Arrays, Declaring and using arrays, One-dimensional, Two-Dimensional and Multi-Dimensional Arrays.
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)
2 nd week 11 Jan – 15 Jan	Static and Dynamic arrays, Arrays of Arrays.
16 Jan ,2022	Sunday
3 rd week 17 Jan – 22 Jan	General & Event Procedures, Subroutines, Functions.
23 Jan ,2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (November, 2021 to February, 2022)

Name of the Teacher – Ms. Leena

Subject- Computers

Paper- Visual Basic (BCA-355)

Class- BCA III

4 th Week 24 Jan – 29 Jan	Sessionals
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2021 1 st week 31 Jan -4 Feb	Calling Procedures, Arguments-Passing Mechanisms, Optional Arguments.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 12 Feb	Functions Returning, Custom Data Types.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (November, 2021 to February, 2022)

Name of the Teacher – Ms. Leena

Subject- Computers

Paper-I Computer and Programming Fundamentals (BCA-111)

Class- BCA I

3 rd Week 16 Nov-17Nov	Concept of Primary & Secondary Memory, RAM, ROM Types of ROM, Flash Memory.
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 22 Nov-24 Nov	Secondary Storage device , Sequential & direct access devices, Magnetic tape.
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov -04 Dec	Magnetic disk, CD, DVD, I/O devices, Relationship between hardware and software, Types of Software, Operating System
05 Dec, 2021	Sunday
2 nd Week 06 Dec -8 Dec	Functions of Operating system, Concept of multiprogramming, multitasking, multithreading, multiprocessing, time-sharing.
12 Dec,2021	Sunday
3 rd week 13 Dec -15 Dec	Real time, single-user & multi-user operating system, concept of problem solving, Problem definition, program design, Debugging.
19 Dec,2021	Sunday
4 th Week 20 Dec-22 Dec	Types of errors in programming, Documentation, Techniques of Problem solving, Flowchart, algorithms.
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec -01 Jan	Pseudo code, decision table, Structured programming Concepts
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Programming methodologies, top-down and bottom-up programming, Computer Virus, WORMS, Trojan.
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)
2 nd week 11 Jan – 12 Jan	Linear & Binary Searching, Bubble, Selection, and Insertion Sorting.
16 Jan ,2022	Sunday
3 rd week 17 Jan – 19 Jan	Merging, Design of algorithms for Searching, Sorting and merging.
23 Jan ,2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (November, 2021 to February, 2022)

Name of the Teacher – Ms. Leena

Subject- Computers

Paper-I Computer and Programming Fundamentals (BCA-111)

Class- BCA I

4 th Week 24 Jan – 29 Jan	Sessionals
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2021 1 st week 31 Jan ,1-2 Feb	Analogy with natural Language, machine language, assembly language, high-level Language.
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 7 Feb- 9 Feb	Language translators, Characteristics of a good programming language.
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (November, 2021 to February, 2022)

Name of the Teacher – Ms. Leena

Subject- Computers

Paper-I Logical Organization of Computers

Class- BCA I

3 rd Week 16 Nov-20 Nov	Error detecting and correcting codes, Character Representation – ASCII, EBCDIC
19 Nov, 2021	Guru Nanak Dev Ji's Birthday
21 Nov, 2021	Sunday
4 th Week 25 Nov-27 Nov	Boolean Algebra, Boolean Theorems, Boolean Functions and Truth Tables.
28 Nov, 2021	Sunday
Dec, 2021 1 st Week 29 Nov -04 Dec	Canonical and Standard forms of Boolean functions.
05 Dec, 2021	Sunday
2 nd Week 06 Dec -11 Dec	Simplification of Boolean functions
12 Dec,2021	Sunday
3 rd week 13Dec -18 Dec	Venn Diagram, Karnaugh Maps.
19 Dec,2021	Sunday
4 th Week 20 Dec-24 Dec	Logic Basic Gates- AND, OR, NOT
25 Dec,2021 26 Dec,2021	Christmas Sunday
5 th Week 27 Dec-31 Dec,1 Jan	Universal Gates- NAND, NOR, Other Gates- XOR, XNOR etc.
2 Jan ,2022	Sunday
Jan ,2022 1 st week 3 Jan – 8 Jan	Implementations of digital circuits, Combinational Logic
9 Jan ,2022	Sunday(Sh. Guru Gobind Singh's Birthday)
2 nd week 10 Jan – 15 Jan	Characteristics, Design Procedures, analysis procedures.
16 Jan ,2022	Sunday

KVA DAV College for Women, Karnal

Lesson plan for the odd semester (November, 2021 to February, 2022)

Name of the Teacher – Ms. Leena

Subject- Computers

Paper-I Logical Organization of Computers

Class- BCA I

3 rd week 17 Jan – 22 Jan	Half-Adder, Full-Adder, Half-Subtractor.
23 Jan ,2022	Sunday
4 th Week 24 Jan – 29 Jan	Sessionals
26 Jan, 2022 30 Jan ,2022	Republic Day Sunday
Feb, 2021 1 st week 31 Jan -4 Feb	Encoders, Decoders, Multiplexers,
5 Feb, 2022 6 Feb ,2022	Vasant Panchmi Sunday
2 nd week 10 Feb- 12 Feb	Demultiplexers, Comparators, Code Converters
13 Feb ,2022	Sunday
3 rd week 14 Feb- 15 Feb	Revision of all Syllabus