

DAV CENTENARY COLLEGE FARIDABAD

Summary of Lesson Plans of College Faculty

Name of Asst/Associate Prc Ms. Kumud(A), Ms. Tanu (B). Dr. Minakshi (C), Ms. Rajwinder (D)

Class & Section: BCA-3rd SEMESTER

Subject: Data structures Using C

Academic Session 2023-2024 Odd Sem

	Date	Topics to be covered
Week 1	7/21/2023	Introduction to DS
	7/22/2023	Elementary data organisation
	7/23/2023	Sunday
	7/24/2023	Contd.
	7/25/2023	Data structures definition ,Data type vs data structures
	7/26/2023	Contd.
	7/27/2023	Categories of data structures
	7/28/2023	Contd.
	7/29/2023	Contd.
WEEK 2	7/30/2023	Sunday
	7/31/2023	Data structures operations
	8/1/2023	cont.
	8/2/2023	Applications of data structures
	8/3/2023	algorithms complexity and timespace trade-off
	8/4/2023	algorithms complexity and timespace trade-off (contd..)
	8/5/2023	Big O notation
WEEK 3	8/6/2023	Sunday
	8/7/2023	Arrays: Introduction, Linear arrays
	8/8/2023	Representation of linear array in memory
	8/9/2023	address calculations, Traversal
	8/10/2023	Insertions in array
	8/11/2023	Contd.
	8/12/2023	Deletion in an array
WEEK 4	8/13/2023	Sunday
	8/14/2023	Contd.
	8/15/2023	Independence day
	8/16/2023	Multidimensional arrays, Parallel arrays, Sparse arrays
	8/17/2023	Contd.
	8/18/2023	Bubble Sort
	8/19/2023	Selection sort
WEEK 5	8/20/2023	Sunday
	8/21/2023	Contd.
	8/22/2023	Insertion sort
	8/23/2023	Linear Search
	8/24/2023	Binary Search
	8/25/2023	Revision
	8/26/2023	Strings: Introduction, Storing strings
WEEK 6	8/27/2023	Sunday

	8/28/2023	String operations
	8/29/2023	Contd.
	8/30/2023	Rakhi
	8/31/2023	Pattern Matching1
	9/1/2023	Pattern Matching 2
	9/2/2023	Contd.
WEEK 7	9/3/2023	Sunday
	9/4/2023	Linked List: Introduction, Array vs. linked list
	9/5/2023	Representation of linked lists in memory
	9/6/2023	Jananashtmi
	9/7/2023	Traversal in Link List
	9/8/2023	Insertion in Link List
	9/9/2023	Contd.
WEEK 8	9/10/2023	Sunday
	9/11/2023	Deletion in Link List
	9/12/2023	Contd.
	9/13/2023	Searching in a linked list
	9/14/2023	Header linked list
	9/15/2023	Circular linked List
	9/16/2023	Two-way linked list
WEEK 9	9/17/2023	Sunday
	9/18/2023	Threaded lists
	9/19/2023	Garbage collection
	9/20/2023	Applications of linked lists.
	9/21/2023	Stack: Introduction
	9/22/2023	Array and linked representation of stacks
	9/23/2023	Saheedi Diwas (Haryana Heros Martyrdom Day)
WEEK 10	9/24/2023	Sunday
	9/25/2023	Contd.
	9/26/2023	Operations on stacks
	9/27/2023	Applications of stacks: Polish notation, Recursion.
	9/28/2023	Contd.
	9/29/2023	Contd.
	9/30/2023	Contd.
WEEK 11	10/1/2023	Sunday
	10/2/2023	Gandhi Jayanti
	10/3/2023	Queues: Introduction
	10/4/2023	Array and linked representation of queues
	10/5/2023	Contd.
	06.10.2023	Operations on queues
	07.10.2023	Contd.
WEEK 12	08.10.2023	Sunday
	09.10.2023	Contd
	10.10.2023	Deques
	11.10.2023	Priority Queues
	12.10.2023	Applications of queues
	13.10.2023	Presentation of Students

	14.10.2023	Presentation of Students
WEEK 13	15.10.2023	Sunday
	16.10.2023	Presentation of Students
	17.10.2023	Presentation of Students
	18.10.2023	Internal Examination
	19.10.2023	Internal Examination
	20.10.2023	Internal Examination
	21.10.2023	Internal Examination
	22.10.2023	Sunday
WEEK 14	23.10.2023	
	24.10.2023	Dusshera
	25.10.2023	Presentation of Students
	26.10.2023	Tree: Introduction
	27.10.2023	Definition, Representing Binary tree in memory
	28.10.2023	Traversing binary trees
WEEK 15	29.10.2023	Sunday
	30.10.2023	Contd.
	31.10.2023	Traversal algorithms using stacks.
	01.11.2023	Haryana Day
	02.11.2023	Contd.
	03.11.2023	Revision of Unit 1
	04.11.2023	Contd.
WEEK 16	05.11.2023	Sunday
	06.11.2023	Contd.
	07.11.2023	Revision of Unit 2
	08.11.2023	Graph: Introduction
	09.11.2023	Graph theory terminology
	10.11.2023	Diwali Break
	11.11.2023	Diwali Break
WEEK 17	12.11.2023	Diwali Break
	13.11.2023	Diwali Break
	14.11.2023	Diwali Break
	15.11.2023	Diwali Break
	16.11.2023	Diwali Break
	17.11.2023	Sequential and linked representation of Graphs
	18.11.2023	Revision of Unit 3
WEEK 18	19.11.2023	Sunday
	20.11.2023	Contd.
	21.11.2023	Contd.
	22.11.2023	Revision of Unit 3
	23.11.2023	Revision of Unit 4
	24.11.2023	Doubt session
	25.11.2023	Examinations