Lesson Plan

Name of Faculty:	Sonia Jassal
Class :	B.sc CS II
Subject:	Data Structure

Web Link for Content: https://youtube.com/channel/UCu9UgviOkMo2IRy-PXpOkgw

Week	Content	Mode of Delivery
17.8.20-	• Elementary data organization	Google Classroom for
22.8.20	Data Structure definition	sharing material and
	• Data type vs. data structure	Google meet and Zoom
		for online lecture
		delivery
24.8.20-	• Categories of data structures	Google Classroom for
29.8.20	• Data structure operations	sharing material and
		Google meet and Zoom
		for online lecture
		delivery
31.08.20-	• Applications of data structures	Google Classroom for
05.09.20	Algorithms complexity	sharing material and
		Google meet and Zoom
		for online lecture
		delivery.
7.9.20-12.9.20	• time-space tradeoff	Google Classroom for
	Big-O notation	sharing material and
		Google meet and Zoom
		for online lecture
		delivery.
14.9.20-	• Strings: Introduction, strings,	Google Classroom for
19.9.20	String operations,	sharing material and
		Google meet and Zoom
		for online lecture
		delivery.

21.9.20- 26.9.20	 Pattern matching algorithms Arrays: Introduction, Linear arrays 	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
28.9.20- 3.10.20	 Representation of linear array in memory, Traversal, Insertions, Deletion in an array 	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
5.10.20- 10.10.20	 Multidimensional arrays, Parallel arrays, Sparse matrix. Bubble Sort Linear Search Binary Search 	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
12.10.20- 17.10.20	 Linked List: Introduction, Array vs. linked list, Representation of linked lists in memory, Traversal Insertion, 	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
19.10.20- 24.10.20	Deletion,Searching in a linked list,	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
26.10.20- 31.10.20	 Stack: primitive operation on stack, Representation of Stack as Linked List and array, 	Google Classroom for sharing material and Google meet and Zoom for online lecture delivery.
2.11.20- 7.11.20	 Stacks applications : polish notation recursion. 	Google Classroom for sharing material and Google meet and Zoom for online lecture

		delivery.
9.11.20-	• Introduction to queues,	Google Classroom for
14.11.20	• Primitive Operations on the	sharing material and
	Queues	Google meet and Zoom
	• Circular queue, Priority queue,	for online lecture
	• Representation of Queues as	delivery.
	Linked List and array,	
16.11.20-	• Applications of queue.	Google Classroom for
21.11.20	• Algorithm on insertion and	sharing material and
	deletion in simple queue and	Google meet and Zoom
	circular queue.	for online lecture
		delivery.
23.11.20-	• Trees - Basic Terminology,	Google Classroom for
28.11.20	Binary Trees,	sharing material and
	• Tree Representations using	Google meet and Zoom
	Array & Linked List	for online lecture
		delivery.
30.11.20-	• Basic operation on Binary tree,	Google Classroom for
05.12.20	Traversal of binary trees:- In	sharing material and
	order, Preorder & post order,	Google meet and Zoom
		for online lecture
		delivery.
7.12.20-	• Applications of Binary tree.	Google Classroom for
12.12.20	• Introduction to graphs,	sharing material and
	• Definition, Terminology,	Google meet and Zoom
	• Directed, Undirected &	for online lecture
	Weighted graph	delivery.
	• Representation of graphs	

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