		RJGP NEEMKA, FARID	ABAD	
		Lesson Plan		
	Name of the faculty:	Shweta Meena		
	Discipline	Diploma(CS)		
	Semester :	IV		
	Subject :	Data Structure		
	Lesson Plan Duration:	11 Weeks		
	Work load(Lec	ture/Practical)per week :		
Week		Theory		Practical
week	Lecture Day	Topic	Practical Day	Topic
	Day 1	Introduction of problem	·	
	- 1	solving,Data Structure		
		concept:Defination,uses and real		
		life examples	1ST	Sorting an array. The addition of two matrices using function
1ST	Day 2			
131	Day 2	Problem solving concept top		
		down and bottom up design,		
		structured programming		
	Day 3	Concept of pointer variables and		
		constants		
23.75			23.75	
2ND	Day 4	Concept of Arrays	2ND	The multiplication of two matrices. Push and pop operation in stack.
	Day 5	Storage representation of multi-		
		dimensional arrays		
	Day 6	Operations on arrays with		
		Algorithms (searching, traversing,		
		inserting, deleting)		
	Day 7	Introduction to linked list	3RD	Inserting and deleting elements in queue. Inserting and deleting elements in circular queue.
	Day 8	Representation of linked lists in		
4DD		Memory		
3RD	Day 9	Operations on linked list		
		(Insertion, deletion and		
		traversals)		
		traversars)		
	Day 10	Application of linked lists	4ТН	Insertion and deletion of elements in linked list. Insertion and deletion of elements in doub
	Day 11	Doubly linked lists		
	Day 12	Doddy mined lists		
4TH	Buy 12	Operations on doubly linked lists		
		(Insertion, deletion and		linked list.
		traversals),Introduction to stacks		illikeu list.
	Day 13	Representation of stacks	1	The Factorial of a given number with recurs
5TH			5TH	and without recursion.
51H	Day 14	Implementation of stacks		
	Day 15	Applications of stacks		Fibonacii series with recursion and without
	Day 16	Introduction to current		
CTI	Day 16	Introduction to queues	6ТН	Program for binary search tree operation.
6TH	Day 17	Implementation of queues		
	Day 18	Circular Queues		

7 TH	Day 19	De-queues	7 TH	The selection sort technique. The bubble sort technique.
	Day 20	Application of Queues		
	Day 21	Recursion		
8TH	Day 22	Concept of Trees	8ТН	The quick sort technique. The merge sort technique.
	Day 23	Representation of Binary tree in memory		
	Day 24	Traversing Binary Trees (Pre order, Post order and In order		
9ТН	Day 25	Searching, inserting and deleting binary search trees	9ТН	The binary search procedures to search ar element in a given list.
	Day 26	Introduction to Heap		
	Day 27	Introduction to sorting and searching		
	Day 28	Search algorithm (Linear and		
10ТН	Duy 20	Binary)	10TH	The linear search procedures to search an element in a given list.
	Day 29	Sorting algorithms (Bubble Sort, Insertion Sort example and uses		
	Day 30	Quick Sort, Selection Sort,		Bubble sort and Quick sort algorithm implementation
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11TH	Day 31	Merge Sort algo and Example	- 11TH	Merge Sort algorithm implementation
	Day 32	Heap Sort algo and Example		Heap Sort algorithm implementation