LESSON PLAN FOR SESSION :2018-19

NAME OF EMPLOYEE: MS.REETU DEPARTMENT:COMPUTER ENGINEERING DESIGNATION: LECTURER SUB: DATA STRUCTURES USING C TEACHING LOAD:3(L)-6(P) SEMESTER:4TH

WEEK	THEORY		PRACTICAL	
NO.	DAY	TOPICS COVERED	DAY	PRACTICAL DONE
1	1	Introduction to subject	1	sample C program
-	-	Problem solving concent ton down and bottom up		
	2	approach structured programming	2	rovision of C concents
	2	approach, structured programming	2	
	-	Concept of data types, variables and		
	3	constants, concept of pointer variables & const Introduction to data structure types of data		Addition of two matrices using functions
2	1	structure>Assignment1	1	
2	2	Concent of Arrows	2	anarations on matrices
	2		2	operations on matrices
	3	Single dimensional array		
3	1	Two dimensional arrays	1	one dimensional array
	•	Representation of two dimensional array in		
	2	memory(Base address,LB,UB)	2	two dimensional array
	3	various operations on arrays, inserting in arrays		
4	1	searching, traversing operations on arrays	1	Inserting elements in array
	2	detetion in arrays	2	Deleting elements in array
	3	Discussion on students doubts>Assignment2		
5	1	Introduction to linked list and doubly linked list	1	single linked list
		Representation of linked list in		
	2	memory,comparison between linked list and array	2	doubly linked list
	3	Traversing and searching a linked list		
6	- 1	Insertion into linked list at various positions	1	Insertion of elements in linked list
•	2	Deletion from linked lists from various positions	2	Deletion of elements in linked list
	2	Application of linked lists	2	
	5			
7	1	Doubly linked lists traversing a doubly linked list	1	Insertion of elements in doubly linked list
-	_	Insertion and deletion into doubly linked list-		
	2	>Assignment3	2	Deletion of elements in doubly link list
		Introduction to stacks, Representation of stacks	-	
	3	with array and linked lists		
8	1	Implementation of stacks		
	2	Application of stacks-Polish notations	1	Push and non operation in stack
	2	Converting infix to postfix potation	2	Conversion from in-fix notation
0	J 1	Evaluation of nostfix notation	2	
9	1			The factorial of a siven number using
		towers of Hanoi, Recursion, comparison between		i në factoriai of a given number using
	2	recursion and iteration	1	recursion
				Insertion of elements in queue using
	3	Introduction to queues	2	pointers
10	1	Implementation of queues(arrays with algo)		
		Implementation of queues(using linked lists with		Deletion of elements in queue using
	2	algorithm)	1	pointers
				Deletion of elements in circular queue
	3	Circular queues and dequeues>Assignment4	2	using pointers
11	1	Concept of trees-introduction		
	2	Concept of binary trees(complete & extended)		
	3	Representation of binary tree		
				Insertion of elements in circular queue
12	1	Balanced binary tree	1	using pointers
	2	traversing a binary tree	2	priority queue
	3	Pre order, post order and in order traversal		
13	1	Searching in binary trees	1	operations on binary search trees
	2	inserting in binary search trees	2	operations on binary search trees
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	2	deleting from hinary search trees>Assignment5		
	5	aciesting from sinary search trees>Assignments		linear search procedures to search an
14	1	discussion on students doubts	1	element in given list
14	1		-	binary search procedures to search an
	2	Sorting and searching	2	element in given list
	3	Linear and binary search algorithm		
15	- 1	Concept of sorting	1	The bubble sort technique
	-	sorting algorithms-bubble sort, insertion sort, heap	-	
	2	sort	2	The selection sort technique
		selection sort,merge sort,Radix sort		
	3	>Assignment 6		<u> </u>