Data Structure Using C/C++ (SYLLABUS)

Duration: 50 Hrs   prerequest: be strong in basic c programming

Course Fee: Rs. 8,500/-   G-Pay: 98940 83890

S.No	Table of Contents	Remarks
1.	**Introduction to Data Structures**	
2.	**Array: Array Initialization** 　　　**Find array size dynamically** 　　　**Dynamic insert values to array** 　　　**Display unique array values** 　　　**Delete particular values in an array** 　　　**Search element in an array** 　　　**Find index of value in an array** 　　　**Find value of index in an array**	
3	**Recursive Function**	
4.	Pointers var creation, Pointer vs variable, Pointer vs Array Pointer vs object Pointer Increment Pointer object creation, New memory allocation, Delete memory allocation. Call by value Call by reference(address)	
5.	Sorting: 　- Selection Sort 　- Bubble Sort 　- Insertion sort 　- Quick sort 　- Merge Sort 　- Shell sort	
6.	**Searching:** **- Linear Search** **- Binary Search**	

7.	**Stack : LIFO** **Queue: FIFO** **(both array & pointer implementation)**	
8.	**Linked List:(insert,delete,search)** **-Singly Linked List** **-Double Linked List** **-Circular Linked List**	
9.	**Trees** - **Tree representation** - **Binary Tree Properties** - **Binary Tree Traversals** - **Implementation of Binary Tree**	
10.	**Mini Project**	