DATA STRUCTURE

An ISO 9001:2008 Certified **DiSHA**® COMPUTER INSTITUTE EXPERTS IN COMPUTER TRAINING	**Name :**		**Course :**	**DATA STRUCTURE**	**Mob No.:**	
	IMS NO. :	**Admission Date :**	**Start Date :**		**End Date :**	

DATE	TOPICS NAME	DAYS REQUIRED	STUDENT SIGN	FACULTY SIGN
	Data Structure (DS) Introduction (DS Introduction, DS Algorithm, Asymptotic Analysis, DS Pointer, DS Structure)	3		
	DS Array	3		
	DS Linked List (Linked List, Types of Linked List, Singly Linked List, Doubly Linked List, Circular Linked List, Circular Doubly List, Skip list in DS)	8		
	Practical on DS Linked list	2		
	DS Stack (DS Stack, Array Implementation, Linked List Implementation)	5		
	Practical on DS Stack	2		
	DS Queue (DS Queue, Types of Queues, Array Representation, Linked List Representation, Deque, Circular Queue, Priority Queue)	8		
	Practical on DS Queue	2		
	DS Searching (Linear Search, Binary Search)	2		
	DS Sorting (Bubble Sort, Selection Sort, Quick sort, Bucket Sort, Counting Sort, Heap Sort, Insertion Sort, Merge Sort)	5		
	DS Tree (DS Tree, Binary Tree, Binary Search Tree, AVL Tree, B Tree, B+ Tree, Inorder Preorder, Postorder)	5		
	DS Graph (DS Graph, Graph Implementation, BFS Algorithm, DFS Algorithm, Spanning Tree)	5		
	Questions on Graph and Trees	2		
	Dijkstra algorithm, Prims Algorithm, Kruskals alhorithm,			
	Travelling salesman problem			
	0-1 Knapsack problem			
	Exam	1		