Lesson Plan Format
18 weeks (From January 2018 to April 2018)

Name of Assistant /Associate Professor : TAMANNA
Class and Section : B.C.A (4th Sem)
Subject : Data Structures - II

Week 1(January 1-6)	
Chapter 1	(Trees)
01/01/2018	Introduction (General tree, Binary tree, memory)
02/01/2018	Header nodes (with all operation)
03/01/2018	Threaded Binary tree
04/01/2018	Binary search tree
05/01/2018	searching, Insertion and deletion in BST.
06/01/2017	AVL tree
Week 2(January 8-13)	
Chapter	
08/01/2018	Insertion in AVL tree (rotation)
09/01/2018	Deletion in AVL tree
10/01/2018	Problem Day (Revision)
11/01/2018	m-way search tree
12/01/2018	Searching in m-way, Insertion
13/01/2018	Deletion in an m-way search tree
Week 3(January 15-20)	
Chapter	
15/01/2018	B-Tree (searching B-Tree)
16/01/2018	B-Tree (Insertion, construction, deletion)
17/01/2018	Revision of B-Tree, BST
18/01/2018	B+-Trees
19/01/2018	Path lengths
~~19/01/2018~~	X
20/01/2018	
Week 4(January22-27)	
Chapter	
22/01/2018	HOLIDAY
23/01/2018	Test of Trees (B.T, BST, AVL)
24/01/2018	Generating Huffman Tree
25/01/2018	full Revision of chapter-1
26/01/2018	HOLIDAY

27/01/2018	Problem Day for students.
Week 5 (January29- Feb3)	
Chapter – 2	(Graphs)
29/01/2018	Introduction of Graph terms
30/01/2018	Representing Graph in memory.
31/01/2018	Breadth first Traversal
01/02/2018	Depth first traversal
02/02/2018	Path Matrix
03/02/2018	Warshall's Algorithm
Week 6(Feb 5-10)	
Chapter	
05/02/2018	Shortest- Path Warshall's Algo.
06/02/2018	"
07/02/2018	Dijkstra's Algorithm for shortest path
08/02/2018	spanning tree.
09/02/2018	Minimum Spanning Tree
10/02/2018	HOLIDAY
Week 7(Feb 12-17)	
Chapter	
12/02/2017	General Graph
13/02/2017	HOLIDAY
14/02/2017	operation on Graph
15/02/2017	"
16/02/2017	Application of MST
17/02/2017	Revision
Week 8(Feb 19-24)	
Chapter	
19/02/2018	Hash function
20/02/2018	Application of Hash function
21/02/2108	Revision
22/02/2018	Traversal of graph
23/02/2018	shortest path
24/02/2018	Group Discussion
Week 9(Feb 26-March03)	
Chapter	
26/02/2018	Topological sorting
27/02/2018	Algorithm
28/02/2018	HOLIDAY
01/03/2018	

02/03/2018	
03/03/2018	/ HOLIDAY /
Week 10(March 5-10)	
Chapter	Sorting
05/03/2018	Internal Sorting
06/03/2018	External Sorting
07/03/2018	Radix sort (Algorithm and examples)
08/03/2018	QuicK Sort (Algo. and example
09/03/2018	Revision
10/03/2018	Heap sort (Algorithm)
Week 11(March 12-17)	
Chapter	
12/03/2018	Merge Sort
13/03/2018	Tournament Sort
14/03/2018	Types of Sorting
15/03/2018	Merging
16/03/2018	Merging of two sorted Array
17/03/2018	Revision
Week 12(March 19-24)	
Chapter	~~Sorti~~ Searching
19/03/2018	Linear search
20/03/2018	Binary Search
21/03/2018	Comparison of various sorting and searching.
22/03/2018	
23/03/2018	HOLIDAY
24/03/2018	Revision
Week 13(March 26-31)	
Chapter	files
26/03/2018	Physical storage devices
27/03/2018	their characteristics
28/03/2018	files and fields
29/03/2018	HOLIDAY
30/03/2018	Attributes of file, fields, records.
31/03/2018	length of fixed and variable record.
Week 14(April 02-07)	
Chapter	
02/04/2018	Keys (Primary and secondary)
03/04/2018	classification of files
04/04/2018	file operations

05/04/2018	Types of files
06/04/2018	Comparison of various types of file
07/04/2018	Revision
Week 15(April 09-14)	
Chapter	
09/04/2018	file organization
10/04/2018	serial, sequential, Indexed-seq.
11/04/2018	Random access / Direct Access
12/04/2018	Inverted.
13/04/2018	HOLIDAY
14/04/2018	HOLIDAY
Week 16(April 16-21)	
Chapter	
16/04/2018	Multilist file organization
17/04/2018	Revision (G.D)
18/04/2018	HOLIDAY
19/04/2018	Hashing function
20/04/2018	collision resolution methods
21/04/2018	Anynonym function
Week 17(April 23-28)	
Chapter	
23/04/2017	Revision (Problem day for student)
24/04/2017	complete all units Now Test begin
25/04/2017	Test of Tree
26/04/2017	Revision of Tree
27/04/2017	Assignment given
28/04/2018	Group Discussion
Week 18(April 29-30)	
Chapter	
30/04/2018	Revision of file.