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

Name of Assistant /Associate Professor : Suman Kumari
Class and Section : M.Sc (I.T.) (IV Sem.)
Subject : Mathematics
Paper. Graph Theory.

Week 1(January 1-6)	
Chapter 1	
01/01/2018	Definition and types of graphs.
02/01/2018	Definitions and types of walks, Paths and circuits.
03/01/2018	Introduction to Connectedness and distantness of graph
04/01/2018	— do —
05/01/2018	Application of graphs.
06/01/2017	operation on graphs.
Week 2(January 8-13)	
Chapter	
08/01/2018	— do —
09/01/2018	Graph representation.
10/01/2018	Introduction to Isomorphism of graphs.
11/01/2018	Revision.
12/01/2018	Revision.
13/01/2018	Problem class.
Week 3(January 15-20)	
Chapter	
15/01/2018	Class Test.
16/01/2018	Introduction to Eulerian and Hamiltonian Paths.
17/01/2018	— do —
18/01/2018	Shortest ~~distance~~ Path in a weighted graph.
19/01/2018	— do —
19/01/2018	The Travelling sales Person Problem.
20/01/2018	— do —
Week 4(January22-27)	
Chapter	
22/01/2018	Vasant Panchmi
23/01/2018	Revision
24/01/2018	Sir Chhotu Ram Jayanti
25/01/2018	Class Test.
26/01/2018	Republic Day.

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27/01/2018	Assignment.
Week 5 (January29- Feb3)	
Chapter	
29/01/2018	Planar graphs.
30/01/2018	Detection of Planarity and kuratowski thm.
31/01/2018	—do—
01/02/2018	graph Colouring.
02/02/2018	—do—
03/02/2018	Revision.
Week 6(Feb 5-10)	
Chapter	
05/02/2018	Revision.
06/02/2018	Class Test.
07/02/2018	Assignment.
08/02/2018	Introduction of Directed graphs.
09/02/2018	—do—
10/02/2018	Maharshi Dayanand Saraswati Jayanti.
Week 7(Feb 12-17)	
Chapter	
12/02/2017	Introduction to Trees.
13/02/2017	Maha Shiv Ratri.
14/02/2017	—do—
15/02/2017	Introduction to Tree Terminology.
16/02/2017	—do—
17/02/2017	Introduction to Rooted Labeled Trees.
Week 8(Feb 19-24)	
Chapter	
19/02/2018	Introduction to Prefix Code,
20/02/2018	Introduction to Binary Search Tree.
21/02/2108	Introduction to Tree Traversal.
22/02/2018	—do—
23/02/2018	—do—
24/02/2018	Revision.
Week 9(Feb 26-March03)	
Chapter	
26/02/2018	Revision
27/02/2018	Problem Class
28/02/2018	Holi
01/03/2018	Holiday

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02/03/2018	Holiday
03/03/2018	Holiday.
Week 10(March 5-10)	
Chapter	
05/03/2018	
06/03/2018	Class Test.
07/03/2018	Assignment.
08/03/2018	Introduction to Spanning Trees. and Cut Sets.
09/03/2018	—do—
10/03/2018	—do—
Week 11(March 12-17)	
Chapter	
12/03/2018	Introduction to Minimum Spanning Trees.
13/03/2018	—do—
14/03/2018	—do—
15/03/2018	Problem Class.
16/03/2018	Class Test.
17/03/2018	Kruskal Algorithm.
Week 12(March 19-24)	—do—
Chapter	
19/03/2018	Introduction to Prim Algorithm.
20/03/2018	—do—
21/03/2018	Problem Class.
22/03/2018	Problem Class.
23/03/2018	Shaheedi Divas
24/03/2018	Class Test.
Week 13(March 26-31)	
Chapter	
26/03/2018	Introduction to Decision Trees.
27/03/2018	—do—
28/03/2018	Introduction to Sorting Methods.
29/03/2018	Mahavir Jayanti
30/03/2018	Revision
31/03/2018	Revision.
Week 14(April 02-07)	
Chapter	
02/04/2018	Class Test.
03/04/2018	Assignment.
04/04/2018	Revision class.

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05/04/2018	Problem Class.
06/04/2018	Problem class.
07/04/2018	Class Test.
Week 15(April 09-14)	
Chapter	
09/04/2018	Revision of graphs, Paths and circuits.
10/04/2018	Revision of Application of graphs.
11/04/2018	Revision of graph representation.
12/04/2018	Revision of Hamiltonian Paths.
13/04/2018	Problem class
14/04/2018	B.R. Ambedkar Jayanti
Week 16(April 16-21)	
Chapter	
16/04/2018	Problem class.
17/04/2018	Assignment.
18/04/2018	Parshuram Jayanti
19/04/2018	Class Test.
20/04/2018	Revision of Prim Algorithm.
21/04/2018	Revision.
Week 17(April 23-28)	
Chapter	
23/04/2017	Revision.
24/04/2017	Revision.
25/04/2017	Revision.
26/04/2017	Problem class
27/04/2017	Problem class
28/04/2018	Problem class.
Week 18(April 29-30)	
Chapter	
30/04/2018	Class Test.

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