



K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU - 560109
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

NAME OF THE STAFF : Mrs Archana N
SUBJECT CODE/TITLE : 18CS36 / DISCRETE MATHEMATICAL STRUCTURES
SEMESTER/SEC/YEAR : III / B/II
ACADEMIC YEAR : 2019-2020

Sl. No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date	Engaged Date
MODULE 1							
1	Fundamentals of Logic: Basic Connectives and Truth Tables	L+D	BB	1	1	29-07-2019	29/7/2019
2	Logic Equivalence –The Laws of Logic	L+ D	BB	1	2	31-07-2019	31/7/2019
3	Logic Equivalence –The Laws of Logic cont...	L+ D	BB	1	3	01-08-2019	1/8/2019
4	Tutorial	PS	BB	0	3	02-08-2019	2/8/2019
5	Logical Implication – Rules of Inference	L+ D	BB	1	4	05-08-2019	5/8/2019
6	Fundamentals of Logic contd.:	L+ D	BB	1	5	07-08-2019	7/8/2019
7	The Use of Quantifiers	L+ D	BB	1	6	08-08-2019	8/8/2019
8	Quantifiers	L+ D	BB	1	7	10-08-2019	10/8/2019
9	Definitions and the Proofs of Theorems	L+ D	BB	1	8	14-08-2019	14/8/2019
10	Tutorial	PS	BB	0	8	16-08-2019	14/8/2019
MODULE 2							
11	Fundamental Principles of Counting: The Rules of Sum and Product	L+D	BB	1	9	19-08-2019	19/8/2019

12	Permutations	L+D	BB	1	10	21-08-2019	21/8/2019
13	Combinations	L+D	BB	1	11	22-08-2019	22/8/2019
14	Tutorial	PS	BB	0	11	23-08-2019	23/8/2019
15	The Binomial Theorem	L+D	BB	1	12	26-08-2019	26/8/2019
16	Combinations with Repetition	L+D	BB	1	13	28-08-2019	28/8/2019
17	Properties of the Integers: The Well Ordering Principle - Mathematical Induction	L+D	BB	1	14	29-08-2019	29/8/2019
18	Tutorial	PS	BB	0	14	30-08-2019	30/8/2019
19	The Well Ordering Principle - Mathematical Induction contd.,	L+D	BB	1	15	31-08-2019	31/8/2019
20	Tutorial	PS	BB	0	15	06-09-2019	Cancelled due to Teacher Day
21	The Well Ordering Principle - Mathematical Induction contd.,	L+D	BB	1	16	16-09-2019	18/9/2019
MODULE 3							
22	Introduction to Graph Theory: Definitions and Examples	L+D	BB	1	17	18-09-2019	19/9/2019
23	Sub-graphs, Complements	L+D	BB	1	18	19-09-2019	20/9/2019
24	Tutorial	PS	BB	0	18	20-09-2019	23/9/2019
25	Graph Isomorphism	L+D	BB	1	19	23-09-2019	25/9/2019
26	Vertex Degree	L+D	BB	1	20	25-09-2019	26/9/2019
27	Tutorial	PS	BB	0	20	27-09-2019	27/9/2019
28	Euler Trails and Circuits	L+D	BB	1	21	30-09-2019	Kannada Internally
29	Trees: Definitions, Properties, and Examples,	L+D	BB	1	22	03-10-2019	3/10/2019
30	Tutorial	PS	BB	0	22	04-10-2019	4/10/2019

31	Routed Trees, Trees and Sorting	L+D	BB	1			
32	Weighted Trees, Prefix Codes	L+D	BB	1	23	05-10-2019	8/10/2019
					24	09-10-2019	10/10/2019 10/10/2019
MODULE 4							
33	The Principle of Inclusion and Exclusion: The Principle of Inclusion and Exclusion	L+D	BB	1	25	10-10-2019	10/10/2019
34	Tutorial	PS	BB	0	25	11-10-2019	11/10/2019
35	Generalizations of the Principle	L+D	BB	1	26	12-10-2019	12/10/2019
36	Derangements - Nothing is in its Right Place	L+D	BB	1	27	17-10-2019	17/10/2019
37	Tutorial	PS	BB	0	27	18-10-2019	18/10/2019
38	Rook Polynomials	L+D	BB	1	28	23-10-2019	24/10/2019
39	Recurrence Relations: First Order Linear Recurrence Relation	L+D	BB	1	29	24-10-2019	23/10/2019
40	Tutorial	PS	BB	0	29	25-10-2019	24/10/2019
41	The Second Order Linear Homogeneous	L+D	BB	1	30	28-10-2019	28/10/2019
42	The Second Order Linear Homogeneous	L+D	BB	1	31	30-10-2019	30/10/2019 30/10/2019
43	Recurrence Relation with Constant Coefficients	L+D	BB	1	32	04-11-2019	31/10/2019
MODULE 5							
44	Relations and Functions: Cartesian Products and Relations	L+D	BB	1	33	06-11-2019	4/11/2019
45	Functions - Plain and One to-One, Onto Functions	L+D	BB	1	34	07-11-2019	6/11/2019
46	Tutorial	PS	BB	0	34	08-11-2019	7/11/2019
47	The Pigeon-hole Principle, Function Composition and Inverse Functions	L+D	BB	1	35	11-11-2019	8/11/2019(2)
48	Relations contd.: Properties of Relations	L+D	BB	1	36	14-11-2019	11/11/2019
49	Computer Recognition - Zero-One Matrices and Directed Graphs	L+D	BB	1	37	18-11-2019	11/11/2019(2)
50	Partial Orders - Hasse Diagrams,	L+D	BB	1	38	20-11-2019	18/11/2019

51	Equivalence Relations and Partitions	L+D	BB	1	39	28-11-2019	20/11/2019
52	Tutorial	PS	BB	0	39	29-11-2019	28/11/2019
53	Equivalence Relations and Partitions	L+D	BB	1	40	30-11-2019	29/11/2019


Total No. of Lecture Hours = 40

Total No. of Tutorial Hours = 13

Total No. of Revision Hours = 00


Course In charge


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