



K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BANGALORE - 560109
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

NAME OF THE STAFF : GOUSIA SULTANA
 SUBJECT CODE/TITLE : 15EE71 / POWER SYSTEM ANALYSIS-2
 SEMESTER/YEAR : VII / IV
 ACADEMIC YEAR : 2019-2020

Sl. No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date	Delivery Date
MODULE 1							
1	MODULE 1: Load Flow Studies: Introduction,	L+D	BB	1	1	05/08/19	05/8/19
2	Network Model Formulation,	L+ D	BB	1	2	06/08/19	6/8/19
3	Formation of Ybus by Singular Transformation,	L+ D,PS	BB	1	3	06/08/19	6/8/19
4	Problems on STM	L+ D,PS	BB	1	4	07/08/19	7/8/19
5	Tutorial	L+ D,PS	BB	0	4	08/08/19	8/8/19
6	Problems on STM	L+ D,PS	BB	1	5	10/08/19	10/8/19
7	Load Flow Problem,	L+ D,PS	BB	1	6	13/08/19	13/8/19
8	Algorithm and Flow chart of Gauss-Seidel Method.	L+ D	BB+LCD	1	7	13/08/19	13/8/19 14/8/19
9	Problems on Gauss-Seidel Method	L+ D,PS	BB	1	8	14/08/19	17/8/19
10	Problems on Gauss-Seidel Method	L+ D,PS	BB	1	9	17/08/19	17/8/19
11	Problems on Gauss-Seidel Method	L+ D,PS	BB	1	10	17/08/19	20/8/19
MODULE 2							
12	MODULE 2: Load Flow Studies (continued): Comparison of Load Flow Methods	L+D	BB	1	11	19/08/19	21/8/19
13	Algorithm and Flow chart of Newton-Raphson Method,	L+D	BB+LCD	1	12	20/08/19	26/8/19
14	Algorithm and Flow chart of Decoupled Load Flow Methods,	L+D	BB+LCD	1	13	20/08/19	26/8/19
15	Problems on NR Method	L+ D,PS	BB	1	14	21/08/19	27/8/19
16	Tutorial	L+ D,PS	BB	0	14	22/08/19	22/8/19
17	Problems on NR Method	L+ D,PS	BB	1	15	26/08/19	27/8/19
18	Problems on NR Method	L+ D,PS	BB	1	16	27/08/19	16/9/19
19	Problems on DC Method	L+ D,PS	BB	1	17	27/08/19	18/9/19
20	Problems on DC Method	L+ D,PS	BB	1	18	28/08/19	23/9/19
21	Tutorial	L+ D,PS	BB	0	18	29/08/19	29/8/19
22	Control of Voltage Profile.	L+D	BB+LCD	1	19	31/08/19	24/9/19
23	Problems	L+ D,PS	BB	1	20	09/09/19	29/9/19

MODULE 3							
24	MODULE-3: Optimal System Operation: Introduction,	L+ D	BB	1	21	11/09/19	16/9/19
25	Tutorial	L+ D,PS	BB	0	21	12/09/19	18/9/19
26	Optimal Operation of Generators on a Bus Bar,	L+ D	BB	1	22	16/09/19	18/9/19
27	Optimal Unit Commitment,	L+D	BB	1	23	17/09/19	23/9/19
28	Reliability Considerations,	L+ D	BB	1	24	17/09/19	24/9/19
29	Optimum Generation Scheduling.	L+D	BB	1	25	18/09/19	24/9/19
30	Tutorial	L+ D,PS	BB	0	25	19/09/19	26/9/19
31	Problems	L+ D,PS	BB	1	26	23/09/19	25/9/19
32	Problems	L+ D,PS	BB	1	27	24/09/19	25/9/19
33	Problems	L+ D,PS	BB	1	28	24/09/19	30/9/19
34	Problems	L+ D,PS	BB	1	29	25/09/19	3/10/19
35	Tutorial	L+ D,PS	BB	0	29	26/09/19	3/10/19
36	Problems	L+ D,PS	BB	1	30	30/09/19	3/10/19
MODULE 4							
37	Optimal System Operation (continued): Optimal Load Flow Solution,	L+D	BB	1	31	01/10/19	14/10/19
38	Optimal Scheduling of Hydrothermal System,	L+ D	BB	1	32	01/10/19	15/10/19
39	Tutorial	L+ D,PS	BB	0	32	03/10/19	
40	Power System Security,	L+D	BB+LCD	1	33	05/10/19	15/10/19
41	Maintenance Scheduling,	L+D	BB+LCD	1	34	09/10/19	16/10/19
42	Tutorial	L+ D,PS	BB	0	34	10/10/19	
43	Power System Reliability.	L+ D	BB+LCD	1	35	12/10/19	28/10/19
44	Tutorial	L+ D,PS	BB	0	35	17/10/19	22/10/19
45	Problems	L+ D,PS	BB	1	36	21/10/19	22/10/19
46	Problems	L+ D,PS	BB	1	37	22/10/19	23/10/19
47	Problems	L+ D,PS	BB	1	38	22/10/19	28/10/19
48	Problems	L+ D,PS	BB	1	39	23/10/19	4/11/19
49	Tutorial	L+ D,PS	BB	0	39	24/10/19	
50	Problems	L+ D,PS	BB	1	40	26/10/19	5/11/19
MODULE 5							
51	MODULE 5: Symmetrical Fault Analysis: Algorithm for Short Circuit Studies,	L+D	BB	1	41	26/10/19	5/11/19
52	Zbus Formulation.	L+ D	BB	1	42	28/10/19	6/11/19
53	Problems on Zbus formation	L+ D,PS	BB	1	43	30/10/19	11/11/19
54	Tutorial	L+ D,PS	BB	0	43	31/10/19	7/11/19
55	Problems on Zbus formation	L+ D,PS	BB	1	44	04/11/19	12/11/19
56	Problems on Zbus formation	L+ D,PS	BB	1	45	05/11/19	12/11/19
57	Power System Stability: Numerical Solution of Swing Equation,	L+ D,PS	BB	1	46	05/11/19	13/11/19
58	Multi-machine Stability.	L+ D,PS	BB	1	47	06/11/19	13/11/19
59	Tutorial	L+ D,PS	BB	0	47	07/11/19	28/11/19

60	Problems	L+ D,PS	BB	1	48	09/11/19	19/11/19
61	Problems	L+ D,PS	BB	1	49	09/11/19	19/11/19
62	Problems	L+ D,PS	BB	1	50	11/11/19	20/11/19
63	Revision	L+ D,PS	BB	0	50	12/11/19	28/11/19
64	Revision	L+ D,PS	BB	0	50	12/11/19	30/11/19
65	Revision	L+ D,PS	BB	0	50	13/11/19	30/11/19
66	Tutorial	L+ D,PS	BB	0	50	14/11/19	
67	Revision	L+ D,PS	BB	0	50	18/11/19	
68	Revision	L+ D,PS	BB	0	50	19/11/19	
69	Revision	L+ D,PS	BB	0	50	19/11/19	
70	Revision	L+ D,PS	BB	0	50	20/11/19	
71	Tutorial	L+ D,PS	BB	0	50	28/11/19	
72	Tutorial	L+ D,PS	BB	0	50	28/11/19	
73	Tutorial	L+ D,PS	BB	0	50	30/11/19	
74	Tutorial	L+ D,PS	BB	0	50	30/11/19	

Total No. of Lecture Hours = 51

Total No. of Tutorial Hours = 17

Total No. of Revision Hours = 7

Chousia Sultana
Course In charge

[Signature]
Head - Dept

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Principal