



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

SESSION: 2021-2022 (EVEN SEMESTER)

LESSON PLAN

NAME OF THE STAFF : DIVYA R

COURSE CODE/TITLE : 18MAT41/ COMPLEX ANALYSIS, PROBABILITY AND STATISTICAL METHODS

SEMESTER/YEAR : IV / II-CV & ME

Sl. No.	Topic to be covered	Mode of Delivery	Teaching Aid	No. of Periods	Cumulative No. of Periods	Proposed Date	Execution Date
MODULE 1							
1	Review of function of a complex variable, limits, continuity, and differentiability.	L+D,PS	Blackboard	1	1	23-05-2022	23/5/22
2	Analytic functions: Cauchy-Riemann equations in Cartesian and Polar forms	L+D,PS	Blackboard	2	3	24-05-2022 25-05-2022	24/5/22 26/5/22
3	Problem Solving (Tutorial)	L+D,PS	BB	0	3	26-05-2022	27/5/22
4	Construction of analytic functions: Milne-Thomson method-Problems.	L+D,PS	BB	2	5	27-05-2022 28-05-2022	6/6/22 7/6/22
5	Problem Solving (Tutorial)	L+D,PS	BB	0	5	30-05-2022	8/6/22
6	Construction of analytic functions: Milne-Thomson method-Problems.	L+D,PS	BB	3	8	31-05-2022 01-06-2022 02-06-2022	9/6/22 13/6/22 14/6/22
7	REVISION	L+D,PS	BB	0	8	03-06-2022	15/6/22
MODULE 2							
8	Introduction. Discussion of transformations: $w = z^2, w = e^z, w = z + \frac{1}{z}, z \neq 0$.	L+D,PS	BB	3	11	06-06-2022 07-06-2022 08-06-2022	16/6/22 17/6/22 27/6/22
9	Bilinear transformations- Problems	L+D,PS	BB	2	13	09-06-2022 10-06-2022	28/6/22 28/6/22
10	Problem Solving (Tutorial)	L+D,PS	BB	0	13	13-06-2022	29/6/22
11	Complex integration: Line integral of a complex function- Cauchy's theorem and Cauchy's integral formula and problems	L+D,PS	BB	3	16	14-06-2022 15-06-2022	30/6/22 1/7/22

12	Problem Solving (Tutorial)	L+D,PS	BB	0	16	16-06-2022	8/7/22
13	REVISION	L+D,PS	BB	0	16	17-06-2022	9/7/22, 11/7/22
MODULE 3							
14	Probability Distributions: Review of basic probability theory. Random variables (discrete and continuous),	L+D,PS	BB	2	18	23-06-2022	14/7/22
15	Problem Solving (Tutorial)	L+D,PS	BB	0	18	25-06-2022	15/7/22
16	Binomial distributions- problems	L+D,PS	BB	2	20	27-06-2022	16/7/22
17	Poisson distributions- problems	L+D,PS	BB	1	21	04-07-2022	18/7/22
18	Problem Solving (Tutorial)	L+D,PS	BB	0	21	05-07-2022	19/7/22
19	Exponential distributions- problems	L+D,PS	BB	1	22	06-07-2022	20/7/22
20	Normal distributions- problems	L+D,PS	BB	2	24	07-07-2022	21/7/22
21	REVISION	L+D,PS	BB	0	24	08-07-2022	22/7/22
MODULE 4							
22	Statistical Methods: Correlation and regression-Karl Pearson's coefficient of correlation and rank correlation-problems	L+D,PS	BB	3	27	09-07-2022	24/7/22
23	Regression analysis- lines of regression -problems.	L+D,PS	BB	2	29	13-07-2022	29/7/22
24	Problem Solving (Tutorial)	L+D,PS	BB	0	29	14-07-2022	30/7/22
25	Curve Fitting: Curve fitting by the method of least squares-fitting the curves of the form $y = ax + b$, $y = ax^2 + bx + c$, $y = ax^b$	L+D,PS	BB	3	32	15-07-2022	1/8/22
26	Problem Solving (Tutorial)	L+D,PS	BB	0	32	16-07-2022	2/8/22
27	REVISION	L+D,PS	BB	0	32	18-07-2022	3/8/22
MODULE 5							
28	Joint probability distribution: Joint Probability distribution for two discrete random variables, expectation and covariance	L+D,PS	BB	2	34	19-07-2022	4/8/22
29	Problem Solving (Tutorial)	L+D,PS	BB	0	34	01-08-2022	5/8/22
30	Sampling Theory: Introduction to sampling distributions, standard error, Type-I and Type-II errors. Test of hypothesis for means	L+D,PS	BB	3	37	02-08-2022	18/8/22
31	Student's t-distribution, Chi square distribution as a test of goodness of fit	L+D,PS	BB	3	40	03-08-2022	19/8/22
						08-08-2022	
						10-08-2022	20/8/22
						11-08-2022	22/8/22
						12-08-2022	

32	Problem Solving (Tutorial)	L+D.PS	BB	0	40	13-08-2022	25/8/22
33	REVISION	L+D.PS	BB	0	40	16-08-2022 17-08-2022	26/8/22
34	REVISION	L+D.PS	BB	0	40	18-08-2022 19-08-2022	29/8/22
35	REVISION	L+D.PS	BB	0	40	22-08-2022 23-08-2022	30/8/22
36	REVISION	L+D.PS		0	40	24-08-2022 02-09-2022	
37	REVISION	L+D.PS		0	40	03-09-2022	

Total No. of Lecture Hours = 40

Total No. of Tutorial Hours = 10

Total No. of Revision Hours = 09

Wijaya P
Course in charge

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