

VEMANA INSTITUTE OF TECHNOLOGY

Koramangala, Bangalore-34

DEPARTMENT OF MATHEMATICS

Subject	Complex Analysis, Probability and Statistical Methods										18M	18MAT41	
COURSE OUTCOMES													
CO No.	On completion of this course, students will be able to:										Cogi Le	Cognitive Level	
18MAT41.1	Use the concepts and construction of analytic function in Cartesian and polar forms.								I	L2			
18MAT41.2	Utilize conformal transformation and complex integral arising in engineering L3 problems.												
18MAT41.3	Apply discrete and continuous probability distributions in analyzing the L2 probability models arising in engineering field.												
18MAT41.4	Make use of the correlation and regression analysis to fit a suitable mathematical model for the statistical data.								I	L2			
18MAT41.5	Construct joint probability distributions and demonstrate the validity of L3 testing the hypothesis.												
CO-PO MAPPING													
CO No.	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	
18MAT41.1	3.00	2.00	-	-	-	-	-	-	-	-	-	-	
18MAT41.2	3.00	2.00	-	-	-	-	-	-	-	-	-	-	
18MAT41.3	3.00	2.00	-	-	-	-	-	-	-	-	-	-	
18MAT41.4	3.00	2.00	-	-	-	-	-	-	-	-	-	-	
18MAT41.5	3.00	2.00	-	-	-	-	-	-	-	-	-	-	
18MAT41	3.00	2.00	-	-	-	-	-	-	-	-	-	-	

CO-PO JUSTIFICATION

CO No.	РО	CL	Justification
18MAT41.1	PO1	3	Students are able to solve the problems which include complex variables and also understand applications. Hence it is mapped on high scale.
	PO2	2	Many engineering problems involve flow problems which involves complex potential functions. Students will be able to analyze the problems to certain extent only. Hence it is mapped on medium scale
18MAT41.2	PO1	3	Students are able to understand various transformations and its applications. Hence it is mapped on high scale.
	PO2	2	Students will be able to apply the knowledge of Calculus in complex engineering problems
18MAT41.3	PO1	3	Students will be able to apply the knowledge of probability theory in real life problems to predict the future
	PO2	2	Helps students to analyze the problem effectively in engineering.
18MAT41.4	PO1	3	The students are able to solve the problems and also understand applications. Hence it is mapped on high scale
	PO2	2	Students are able to apply statistical method to solve complex engineering problem and mathematical modeling
18MAT41.5	PO1	3	Students are able to solve the Problems associated with testing of hypothesis and hence it is mapped on high scale.
	PO2	2	Many engineering problems involve testing of hypothesis. Student will be able to analyze and interpret the results of the hypothesis tested. Hence it is mapped on medium scale