

LESSON PLAN

Discipline: Electrical Engineering		Semester: 3rd semester	Name of the Teaching Faculty: Dharashree Puthal	
Subject: Engineering Mathematics-III Sub code: Th-1		No of days /week class allotted: 02/week	Semester from Date: 15/09/2022 to 22/12/2022 No of weeks: 15	
Month	Week	No of periods available	Class Day	Theory topics to be covered
September	2 nd	02P	19.09.2022	Chapter 1: COMPLEX NUMBERS Real and Imaginary numbers Complex Numbers, Conjugate Complex Numbers, Modulus and Amplitude of a Complex Number
			21.09.2022	Geometrical Representation of Complex Numbers Properties of Complex Numbers
	3 rd	02P	26.09.2022	Determination of three cube roots of unity and their properties
			28.09.2022	De Moivre's Theorem and Problems
October	4 th	02P	10.10.2022	Monthly Test-01
			12.10.2022	Chapter 4: LAPLACE TRANSFORMS Define Gamma function and $\Gamma(n+1)=n!$ and find $\Gamma(1/2)=\sqrt{\pi}$
	5 th	02P	17.10.2022	Define Laplace Transform of a function $f(t)$ and Inverse Laplace Transform
			19.10.2022	Derive L.T. of standard functions and explain existence conditions of L.T.
	6 th	02P	26.10.2022	Explain Linear, Shifting property of L.T.
31.10.2022			Formulate L.T. of Derivatives, Integrals	
November	7 th	02P	02.11.2022	Multiplication by t^n and Division by t
			07.11.2022	Derive formulae of Inverse L.T. and Explain method of Partial Fractions
	8 th	01P	09.11.2022	Problems
	9 th	02P	14.11.2022	Revision and Doubt Clearing classes & Internal Assessment
			16.11.2022	
	10 th	02P	21.11.2022	Explain Finite Difference and form table of Forward and Backward difference
			23.11.2022	Define Shift Operator and Establish relation between & Difference Operator
11 th	02P	28.11.2022	Derive Newton's Forward Interpolation formula for equal intervals	
		30.11.2022	Derive Newton's Backward Interpolation formula for equal intervals	

December	12 th	01P	05.12.2022	State Lagrange's Interpretation formula for unequal intervals
	13 th	02P	07.12.2022	Monthly Test-03
			12.12.2022	Explain Numerical Integration and State Newton's Cote's formula.
	14 th	02P	14.12.2022	Trapezoidal rule and Solve Problems on Trapezoidal rule
			19.12.2022	Simpson's 1/3rd rule and Solve problems on Simpson's 1/3rd rule
	15 th	01P	21.12.2022	Revision & Previous year question & Answer discussion.
			. VERY SIMILAR TEST/MOCK TEST	

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 LPM
 13/12/22