

NILASAILA INSTITUTE OF SCIENCE & TECHNOLOGY SERGARH-756060, BALASORE (ODISHA) (Approved by AICTE& affiliated to SCTE&VT, Odisha)



LESSON PLAN

SUBJECT: Th1. ENGINEERING MATHEMATICS – III

CHAPTER WISE DISTRIBUTION OF PERIODS

Sl.No.	Name of the chapter as per the Syllabus	No. of Periods as per the Syllabus	No. of periods actually needed
1	Complex Numbers	6	6
2	Matrices	4	4
3	Differential Equations	10	10
4	Laplace transforms	12	12
5	Fourier Series	12	12
6	Numerical Methods	4	4
7	Finite difference & interpolation121		
	TOTAL	60	60

Discipline: EE/EEE	Semester: 3RD	Name of the Teaching Faculty: Mr SUBAS CHANDRA DASH		
Week	Class Day	Theory / Practical Topics		
1ST	1 st	1.Complex Numbers 1.1 Real and Imaginary numbers		
	2 nd 3 rd	1.2 Complex numbers, conjugate complex numbers, Modulus and Amplitude of a		
		complex number		
		1.3 Geometrical Representation of Complex Numbers.		
		1.4 Properties of Complex Numbers		
	4 th	1.5 Determination of three cube roots of unity and their properties.		
	1 st	1.6 De Moivre's theorem		
	2 nd	1.7 Solve problems on 1·1 - 1·6		
		2.Matrices		
2ND	3 rd	2.1. Define rank of a matrix.		
		2.2. Perform elementary row transformations to determine the rank of a		
	4 th	2.3. State Rouche's theorem for consistency of a system of linear equations in		
	4	unknowns.		
	1 st	2.4. Solve equations in three unknowns testing consistency		
	2 nd	2.5. Solve problems on 2.1 – 2.4		
		3.Linear Differential Equations		
3RD	3 rd	3.1. Define Homogeneous and Non – Homogeneous Linear Differential Equations		
	_	with constant coefficients with examples		
	4 th	3.2. Find general solution of linear Differential Equations in terms of C.F. and P.I.		
	1 st	3.2. Find general solution of linear Differential Equations in terms of C.F. and P.I.		
4TH	2 nd	3.3. Derive rules for finding C.F. And P.I. in terms of operator D, excluding.		
	3 rd	3.3. Derive rules for finding C.F. And P.I. in terms of operator D, excluding.		
	4 th	3.4. Define partial differential equation (P.D.E)		
	1 st	3.5. Form partial differential equations by eliminating arbitrary constants and		
		arbitrary functions 3.5. Form partial differential equations by eliminating arbitrary constants and		
5TH	2 nd			
-	- 3 rd	arbitrary functions		
	-	3.6. Solve partial differential equations of the form Pp + Qq = R		
	4 th	3.7. Solve problems on 3.1- 3.6		
6ТН	1 st	4.Laplace Transforms 4.1. Define Gamma function and and find .		
	2 nd	4.2. Define Laplace Transform of a function and Inverse Laplace Transform .		
	3 rd	4.2. Define Laplace Transform of a function and Inverse Laplace Transform .		
	3	4.2. Define Laplace Transform of a function and Inverse Laplace Transform .		
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	1 st	4.3. Derive L.T. of standard functions and explain existence conditions of L.T.		

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		4 th	6.3. solve problems on 6.2		
¹ 7.1 Explain finite difference and form table of forward and backward difference		1 st	7.Finite difference and interpolation		
			7.1. Explain finite difference and form table of forward and backward difference		
2 nd		and			
13TH 2 7.2. Define shift Operator and establish relation between & difference operat	13TH	2	7.2. Define shift Operator and establish relation between & difference operator.		

	3 rd	7.3. Derive Newton's forward and backward interpolation formula for equal
	3	intervals
	4 th	7.4. State Lagrange's interpretation formula for unequal intervals.
14TH	1 st	7.5. Explain numerical integration and state:
		7.5.1. Newton's Cote's formula
	2 nd	7.5.1. Newton's Cote's formula
	3 rd	7.5.2. Trapezoidal rule
	4 th	7.5.2. Trapezoidal rule
15TH	1 st	7.5.2. Trapezoidal rule
	2 nd	7.5.3. Simpson's 1/3rd rule
	3 rd	7.5.3. Simpson's 1/3rd rule
	4 th	7.6. Solve problems on 7.1- 7.5

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