

LESSON PLAN

Discipline: Electrical Engineering		Semester: 3rd semester	Name of the Teaching Faculty: Sadashiba Mohanta	
Subject: Engineering Mathematics-III Sub code: Th-1		No of days /week class allotted: 02/week	Semester from Date: 01/08/2023 to 30/11/2024 No of weeks: 17	
Month	Week	No of periods available	Class Day	Theory topics to be covered
August	1 st	01P	02.08.2023	Chapter 2: MATRICES Define Rank of a Matrix. Perform Elementary Row Transformations to Determine the Rank of a Matrix
	2 nd	01P	07.08.2023	State Rouche's Theorem for Consistency of a System of Linear Equations in n unknowns.
			09.08.2023	Solve Equations in three unknowns testing Consistency
	3 th	01P	14.08.2023	Chapter 3: LINEAR DIFFERENTIAL EQUATIONS Define homogeneous and non-homogeneous Linear Differential Equations with constant coefficients with Examples
			16.08.2023	Find General Solution of Linear Differential Equations in terms of C.F. and P.I.
	4 th	01P	21.08.2023	Derive rules for finding C.F. and P.I. in terms of operator D
			23.08.2023	Problems
5 th	01P	28.08.2023	Define Partial Differential Equation (P.D.E.)	
September	6 th	01P	04.09.2023	Form Partial Differential Equations by eliminating arbitrary constants and arbitrary functions
	7 th	01P	11.09.2023	Solve Partial Differential Equations of the form $Pp + Qq = R$
			13.09.2023	Problems
	8 th	01P	18.09.2023	Monthly Test-02

	9 th	01P	25.09.2023	Chapter 5:FOURIER SERIES Define Periodic functions with Examples.
			27.09.2023	State Dirichlet's condition for the Fourier expansion of a function and it's Convergence
October	10 th	01P	04.10.2023	Express Periodic function () satisfying Dirichlet's conditions as a Fourier series
	11 th	01P	09.10.2023	Revision and Doubt Clearing classes & Internal Assessment
			11.10.2023	State Euler's formulae
	12 th	01P	16.10.2023	Formulae for Fourier series coefficients
			18.10.2023	Problems on finding Fourier series coefficients
	13 th	01P	25.10.2023	Define Even and Odd functions Find Fourier series of Even and Odd functions in ($0 \leq x \leq 2\pi$ and $-\pi \leq x \leq \pi$)
	14 th	01P	30.10.2023	Obtain Fourier series of continuous functions in ($0 \leq x \leq 2\pi$ and $-\pi \leq x \leq \pi$)
November	15 th	01P	01.11.2023	Problems
	16 th	01P	06.11.2023	Obtain Fourier series of functions having points of discontinuity ($0 \leq x \leq 2\pi$ and $-\pi \leq x \leq \pi$)
			08.11.2023	Problems
	17 th	01P	13.11.2023	Chapter 6: NUMERICAL METHODS Appraise Limitation of Analytical Methods of solution of Algebraic Equations
		01P	15.11.2023	Derive Iterative formula for finding the solutions of Algebraic Equations by Bisection method
	18 th	01P	20.11.2023	Problems
			22.11.2023	Derive Iterative formula for finding the solutions of Algebraic Equations by Newton-Raphson method
	19 th	01P	29.11.2023	Revision & Previous year question & Answer discussion.
. VERY SIMILAR TEST/MOCK TEST				