		part la	LESSO	N PLAN
Discipline: Electrical Engineering Subject: Engineering Mathematics-III Sub code: Th-1			Semester: 3rd semester  No of days /week class allotted:02/week	Name of the Teaching Faculty: PTGF  Semester from Date: 15/09/2022 to 22/12/2022 No of weeks: 15
September	1st	01P	16.09.2022	Chapter 2: MATRICES  Define Rank of a Matrix.  Perform Elementary Row Transformations to Determine the Rankof a Matrix
	2 <sup>nd</sup>	02P	20.09.2022	State Rouche's Theorem for Consistency of a System of Linear Equations in <i>n</i> unknowns.
			23.09.2022	Solve Equations in three unknowns testing Consistency
	3rd	02P	27.09.2022	Chapter 3: LINEAR DIFFERENTIAL EQUATIONS  Define homogeneous and non-homogeneous Linear  Differential Equations with constant coefficients with  Examples
			30.09.2022	Find General Solution of Linear Differential Equations in terms of C.F. and P.I.
T. A.	4th	02P	11.10.2022	Derive rules for finding C.F. and P.I. in terms of operator D
			14.10.2022	Problems (D.D.F.)
er	5 <sup>th</sup>	02P	18.10.2022	Define Partial Differential Equation (P.D.E.)
October			21.10.2022	Form Partial Differential Equations by eliminating arbitrary constants and arbitrary functions
	6 <sup>th</sup>	02P	25.10.2022	Solve Partial Differential Equations of the form Pp + Qq = R
Part of			28.10.2022	Problems
737	7th	02P	01.11.2022	Monthly Test-02
November			04.11.2022	Chapter 5:FOURIER SERIES  Define Periodic functions with Examples.  State Dirichlet's condition for the Fourier expansion of a function and it's Convergence
	8 <sup>th</sup>	01P	11.11.2022	Express Periodic function $f(x)$ satisfying Dirichlet's conditions as a Fourier series
	9 <sup>th</sup>	02P	15.11.2022	Revision and Doubt Clearing classes
			18.11.2022	Internal Assessment
	10 <sup>th</sup>	02P	22.11.2022	State Euler's formulae Formulae for Fourier series coefficients
			25.11.2022	Problems on finding Fourier series coefficients
	11 <sup>th</sup>	01P	29.11.2022	Define Even and Odd functions Find Fourier series of Even and Odd functions in $(0 \le x \le 2\pi)$ and $-\pi \le x \le \pi$

	12 <sup>th</sup>	01P	02.12.2022	Obtain Fourier series of continuous functions in ( $0 \le x \le 2\pi$ and $-\pi \le x \le \pi$ ) and Problems		
	13 <sup>th</sup>	02P	06.12.2022	Obtain Fourier series of functions having points of discontinuity ( $0 \le x \le 2\pi$ and $-\pi \le x \le \pi$ ) and Problems		
5			09.12.2022	Chapter 6: NUMERICAL METHODS  Appraise Limitation of Analytical Methods of solution of Algebraic Equations		
	14 <sup>th</sup>	02P	13.12.2022	Derive Iterative formula for finding the solutions of Algebraic Equations by Bisection method		
			16.12.2022	Derive Iterative formula for finding the solutions of Algebraic Equations by Newton-Raphson method		
	15 <sup>th</sup>	01P	20.12.2022	Revision &Previous year question & Answer discussion.		
			. VERY SIMILAR TEST/MOCK TEST			

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