BHAI GURDAS INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Computer Science and Engineering

LESSON PLAN

Subject Name: -Mathematics - IISubject code:-BTAM206-18Year: -2022Semester: - 2nd

Lecture	Unit	days/week	Topic	Teaching	
Lecture 1:			Introduction to	Procentation	
			Laplace Transform	Presentation	
Lecture 2:			Basic result of	Presentation	
		week-l	Laplace Transform		
Lecture 3:			Properties of Laplace	Chalk board	
Lecture 4:			First Shifting Property	Chalk board	
Lecture 5:			Second Shifting Property	Chalk board	
Lecture 6:			Doubt session	Chalk board	
Lecture 7:			Change of Scale property	Chalk board	
Lecture8:			Multiplication property	Chalk board	
Lecture 9:			Division property	Chalk board	
Lecture 10:		week-2	Unit Step Function and	Chalk board	
			Dirac Delta Function	Chair board	
Lecture 11:			Inverse Laplace Transforms	Chalk board	
Lecture 12:			Doubt session		
Lecture 13:	Unit 1:		Basic result of Inverse Laplace	Presentation	
Lecture 14:			Properties of Inverse	Presentation	
	Integral		Laplace Transform	Fresentation	
Lecture 15:	Transform		First Shifting Property of	Chalkboard	
	S		Inverse Laplace	Chaikboard	
Lecture 16:		week-3	Second Shifting Property	Chalk board	
			of Inverse Laplace	Chaik board	
Lecture 17:			Change of Scale property	Chalk board	
			of Inverse Laplace		
Lecture 18:			Doubt session	Chalk board	
Lecture 19::			Multiplication property	Chalk board	
			of Inverse Laplace	Orialit board	
Lecture 20:			Division property of	Chalk board	
		week-4	Inverse Laplace		
Lecture 21:		WGGK-4	Fourier Series	Chalk board	
Lecture 22:			Half Range Sine Series	Chalk board	
Lecture 23:			Half Range Cosine Series	Chalk board	
Lecture 24:			Doubt session	Chalk board	
Lecture 25:			Fourier Transforms	Presentation	

Lecture 26:			Basic concepts of First order	
			Second order ODE's	Chalk board
Lecture 27:		week-5	Geometrical meaning of ODE	
Eccure 27.			of First order	Lecture method
Lecture 28:			Solutions of Separable ODE's	Chalk board
Lecture 29:			Exact ODE's of First order	Chalk board
Lecture 30:			Doubt session	Chalk board
Lecture 31:			Equation Reducible to	
			Exact Equations	Chalk board
Lecture 32:			Exact ODE's of Second order	Chalk board
Lecture 33:		week-6	Equations Solvable for p	Chalk board
Lecture 34:			Equations Solvable for y	Chalk board
Lecture 35:			Equations Solvable for x	Chalk board
Lecture 36:	Unit 2:		Doubt session	Chalk board
Lecture 37:	First and		Clairaut's Equation	Chalk board
Lecture 38	second linear		Linear ODE's	Chalk board
Lecture 39:	ODE's		Equations reducible to the	Challe board
	ODLS		Linear Form	Chalk board
Lecture 41:			Solving ODE's by Laplace	Challe board
			Transform	Chalk board
Lecture 42:			Homogeneous Linear ODE's	Chalk board
			of	Chaik board
Lecture 43:		Week-7	Doubt session	Chalk board
Lecture 44:			Equation reducible	Chalk board
			to Homogeneous	Criaik board
Lecture 45:			Euler – Cauchy Equations	Presentation
Lecture 46:		week-8	Wronskian	Presentation
Lecture 47:		week-o	Non-Homogeneous ODE's	Chalk board
Lecture 48:			Solution by method of	Chalk board
			Variation of Parameters	Criaik board
Lecture 49:			Doubt session	Chalk board
Lecture 50:			Power series method	Chalk board
Lecture 51:			Legendre's Equations	Chalk board
Lecture 52:	Unit 3:	week-9	Legendre Polynomials	Chalk board
Lecture 53:	Series	WEEK-9	Bessel's Equation	Chalk board
Lecture 54:	solution of		Bessel Functions	Chalk board
Lecture 55:	ODE's,		Doubt session	Chalk board
Lecture 56:	special functions'		Sturm Liouville	Presentation
	functions'		Boundary Problems	1 1000111411011
			Orthogonal Functions	Chalk board
Lecture 57:			1 1 8 1 1 1 1 1	
Lecture 57: Lecture 58:		week-l0	Basic concepts of PDE's	Chalk board

Lecture 60:	Unit 4 Partia
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Lecture 61:	Differe
Lecture 62:	ial
	equati
Lecture 63:	n
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Unit 4: Partial
Different ial
equatio n

week-11

Solutions of PDE's : Separables	Chalk board	
Doubt session	Chalk board	
Separables of variables	Chalk board	
by Fourier Transform	Chair board	
Separables of variables by Laplace Transforms	Chalk board	

Reference
Engineering Mathematics by BS Grewal
Engineering Mathematics by BS Grewal

Differenti al equation by Dr. Jitendra Rattan

Differenti al equation by Dr. Jitendra Rattan

Engineering mathematics by N.P. Bali

