SARASWATI MAHILA MAHAVIDYALAYA, PALWAL

LESSON PLAN

Class : B A / B.Sc (N.M & C.S) **Semester :** 3rd

Paper : Maths, P-2 Partial Differential Equation **Session :** 2020-21

Lectures	Topic
	UNIT-1 :
	Ch-① : Formation of Partial Differential Eqn PDE, Order degree, Linear & Non-Linear
	Ch-② : First order Linear Partial Differen-
16	-tial Equation, complete Solun, Singular
	Solun linear Eqn General Solun, Solun of Lagrange's
	Ch-③ : First Order Non-Linear PDE,
	Charpit Method, Compatible Systems,
	Jacobi's Method
2	Class Test & Discussion of Problems
	Unit-2 :
	④ Linear Partial Diff. Eqn of Second
	and Higher Orders
18	⑤ PDE's with Variable Coefficients
	Reducible to Equations with
	Constant Coefficients
1	Assignment & Discussion of Doubts

Lectures	Topic
	Unit-3
	Ch-6 : Classification and Canonical forms of Second Order Linear PDE's
18	Ch-7 : Monge's Method for PDE's of Second Order
2	Class Test & Discussion of Problems
	Unit-4
	Ch-8 : Characteristics of Second Order PDE's and Cauchy's Problem
22	Ch-9 : Method of separation of Variables : Wave, Heat and Laplace Equations
1	Assignment
10	Revision

Amrita Agrawal