

SARASWATI MAHILA MAHAVIDYALAYA, PALWAL

LESSON PLAN

Class: BA / B.Sc (N.M & C.S)

Semester: 5th

Paper: ^{Maths, P-3} Numerical Analysis

Session: 2020-21

Lectures	Topic
	<u>Unit-1</u> :
	<u>Ch-1</u> : Finite Difference operators and their relations, Finding the Missing Terms and Effect of Error in a Tabular Value
18	<u>Ch-2</u> : Interpolation with Equal Intervals : Newton's forward and Newton's backward Interpolation Formulae
	<u>Ch-3</u> : Interpolation with Unequal Intervals : Newton's Divided Differences, Lagrange's Interpolation Formulae, Hermite Formula
2	Class Test & Discussion of Problems
	<u>Unit-2</u> :
	<u>Ch-4</u> : Central Difference Interpolation Formulae : Gauss Forward & Backward, Sterling & Bessel's.

Lectures	Topic
18	Ch-5 : Probability Distributions of R.Vs Binomial, Poisson's & Normal distribution : Mean, Variance & Fitting
1	Assignment
	<u>Unit-3</u> :
	Ch-6 : Numerical Differentiation
15	Ch-7 : Eigen Value Problems : Power Method, Jacobi's Method, Given's Method, House-Holder's Method, QR Method, Lanczo's Method
2	Class Test & Discussion of Doubts
	<u>Unit-4</u> :
18	Ch-8 : Numerical Integration
	Ch-9 : Numerical Solution of Ordinary Differential Equations
1	Assignment
10	Lab : Practicals of Numerical Methods in 'c' programming language
5	Revision & Previous Question Papers <small>Discussion of</small>

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