

Tentative Lesson Plan for BA/BSc I

Paper: Ordinary Differential Equations

April:- Geometrical meaning of a differential equation.

Exact differential equations, Integrating factor
First order higher degree equations solvable
for x, y, p . Lagrange's Equations. Clairaut's
Equations. Equations reducible to Clairaut's
form. Singular solutions

May:-

Orthogonal trajectories in Cartesian coordinates
and polar coordinates. Self orthogonal family of
curves. Linear Differential Equations with constant
coefficients. Homogeneous linear Ordinary differential
Equations reducible to homogeneous.

June:- Linear Differential equations of second order.
Reduction to Normal form. Transformation of the
equation by changing the dependent variable.
Solutions by operators of non-homogeneous L.D.E.
Reduction of order of a D.E. Method of variations
of parameters. Method of undetermined coefficients

July:-

Ordinary Simultaneous D.E. Total D.E. General
method of solving $Pdx + Qdy + Rdz = 0$

Session (2021-22)
Business mathematics

Tentative Lesson Plan for B Com IInd Semester

April | Linear Inequalities in two variables
Linear Programming.

May | Data - Introduction, Classification and
Tabulation.

Diagrammatic Representation of Data.

June | - Graphical Representation of Data
Data Interpretation.

July | - Permutations and Combinations
Binomial Theorem.

Neha Kohli

Session (2021-22)
Mathematical Foundations

Tentative Lesson Plan for BCA - IInd Semester.

April - Matrices. Rank of Matrix.

May - Application of Matrices to solution
of System of Linear Equations.

June - Logical statements and Truth Tables
Principle of Mathematical Induction.

July - Groups
Rings, Fields and Ideals.

Nutan Pokhila