

Lesson Plan of Mathematics.

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class - B.A./B.Sc. Ist

Paper - Ordinary differential Equation.

1 Feb to 28 Feb 2023

- * Geometrical meaning of differential eqⁿ.
- * Exact differential equation
- * Integrating function.
- * First order higher degree equation.
- * Solvable for x, y, P
- * Lagrange's equation.

1 March to 31 March 2023

- * Orthogonal trajectories in Cartesian coordinates and polar coordinates.
- * Self orthogonal family of curve
- * Linear differential equation
- * L.D.E with constant coefficient

1 April to 30 April 2023

- * Linear differential equation of second order.
- * Reduction to normal form transformation of equation
- * Reduction to normal form by changing the dependent variable.
- * Reduction to normal form by changing the independent variable.

1 May onwards.

- * ordinary simultaneous differential equation. s
- * solution of simultaneous differential equation
- * solution of simultaneous differential equation involving operators $x(d/dx)$ or $t(d/dx)$ etc.

Revision and unit test of ordinary differential equation.