

Applied Mathematics 1 - Playlist

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Unit 1

[GGSIPIU New Syllabus II Maths 1 II Unit 1 - Topics Review](#)

[Partial Derivative of 1st and 2nd order - Concept](#)

[Partial Derivative of 1st and 2nd order II Numericals](#)

[Partial Derivative of 1st and 2nd Order II Numericals Part2](#)

[Chain Rule II Total Derivative II Diff. of Composite Function](#)

[Introduction to Differentiation of Implicit Function Theory – Gradient](#)

[Partial Derivative - Change of Independent Variables](#)

[Exact Differential Equation - Concept & Numericals](#)

[Exact differential Equation – Numericals](#)

[Maxima and Minima of a Function of Two Variables II Saddle Point](#)

[Lagrange's method of Undetermined Multipliers](#)

[Differentiation under Integral Sign II Leibnitz's Rule II Numericals](#)

[Jacobians II Chain Rule \$JJ' = 1\$ II Jacobian of Implicit Function](#)

[Jacobians II Jacobians to determine Functional Dependence II Numericals](#)

Unit 2

[Ordinary Differential Equation - Concept II](#)

[Geometric Meaning of \$y' = f\(x,y\)\$ II Direction Fields II ODE](#)

[Euler's Method - Numerical Solution of ODE](#)

[Eulers method \(Numerical Practice\) II Numerical Solution of Differential Equation](#)

[Solving ODE of Order 1 - Review of all Methods](#)

[Solving ODE - Variable Separable Form](#)

[Exact Differential Equation- Concept & Numericals](#)

[Exact differential Equation – Numericals](#)

[Solving Homogeneous Differential Equation Reducible to Exact Form II Integrating factor](#)

[Solving Non-Homogeneous D.E. Reducible to Exact Form II Integrating factor](#)