

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Humanities and Social Sciences - NOC:Mathematics for Economics - I

Subject Co-ordinator - Prof. Debarshi Das

Co-ordinating Institute - IIT - Guwahati

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Aim of the course, real numbers
Lecture 2 - Logic, proof
Lecture 3 - Definitions
Lecture 4 - Set operations
Lecture 5 - Definitions
Lecture 6 - Linear functions
Lecture 7 - Quadratic functions
Lecture 8 - Exponential functions, etc.
Lecture 9 - Differentiation: preliminaries
Lecture 10 - Rules of differentiation
Lecture 11 - Partial differentiation
Lecture 12 - Higher order differentiations
Lecture 13 - Approximations and elasticities
Lecture 14 - Differentiability, series, PDV
Lecture 15 - NPV, evaluation of investment projects
Lecture 16 - Exponential, logarithmic functions
Lecture 17 - Tutorials - 1a
Lecture 18 - Tutorials - 1b
Lecture 19 - Tutorials - 1c
Lecture 20 - Extreme, stationary points, first derivative test
Lecture 21 - Global and local extreme points
Lecture 22 - Second derivative test
Lecture 23 - Inflection points
Lecture 24 - Profit maximizations
Lecture 25 - Area under a curve, indefinite integral
Lecture 26 - Definite integral
Lecture 27 - Oil extraction, income distribution, PDV
Lecture 28 - Integration by parts, substitution, Lorenz curve
Lecture 29 - First order difference equations, solution

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- Lecture 30 - Dynamic stability, Cobweb model
- Lecture 31 - Market model with inventory, Phase diagrams, Higher order equations
- Lecture 32 - Multiplier-acceleration model
- Lecture 33 - Tutorials - 2a
- Lecture 34 - Tutorials - 2b