

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

NPTEL Video Course - Mechanical Engineering - NOC:Financial Mathematics

Subject Co-ordinator - Dr. Pradeep K. Jha

Co-ordinating Institute - IIT - Roorkee

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

Lecture 1 - Introduction to Financial Mathematics
Lecture 2 - Important Mathematical Functions and its Characteristics
Lecture 3 - Progressions and Series, Growth and Decay Curves
Lecture 4 - Statistical Measures
Lecture 5 - Problem Solving on Mathematical Functions and Statistical Measures
Lecture 6 - Interest and Interest Rate, Time Value of Money
Lecture 7 - Simple Discount, Focal Date and Equation of Value
Lecture 8 - Introduction to Bank Discount
Lecture 9 - Introduction to Compound Interest
Lecture 10 - Problem Solving on Simple Interest and Bank Discount
Lecture 11 - Introduction to Discrete Compounding and Discrete Payments
Lecture 12 - Equal Payment Series and Gradient Series Factors
Lecture 13 - Geometric Gradient Series Factors
Lecture 14 - Annuities Due and Annuities Deferred
Lecture 15 - Problem Solving on Compounding Factors
Lecture 16 - Compounding Frequency of Interest
Lecture 17 - Interest Factors for Continuous Compounding
Lecture 18 - Introduction to Economic Equivalence
Lecture 19 - Principles of Equivalence
Lecture 20 - Problem Solving on Compounding Frequency and Economic Equivalence
Lecture 21 - Methods of Comparison of Alternatives
Lecture 22 - Payback Period
Lecture 23 - Capitalized Equivalent and Capital Recovery with Return
Lecture 24 - Project Balance
Lecture 25 - Problem Solving on Alternatives Comparison and Project Balance
Lecture 26 - Analysis of Credit and Loans
Lecture 27 - Assessing Interest and Structured Payments in Loans
Lecture 28 - Introduction to Cost of Credit and Amortization
Lecture 29 - Analysis of Amortization Schedule

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- Lecture 30 - Graduated Payment Mortgage, Sinking Funds
- Lecture 31 - Introduction to Depreciation and Depletion
- Lecture 32 - Types of Depreciation
- Lecture 33 - Tax Depreciation Methods
- Lecture 34 - SOD and UOP Method of Depreciation, Depletion
- Lecture 35 - Problem Solving on Depreciation and Depletion
- Lecture 36 - Introduction to Break-Even Analysis
- Lecture 37 - Analysis of Break-Even Time and Dual Break-Even Points
- Lecture 38 - Economic Order Quantity
- Lecture 39 - Introduction to Leverage
- Lecture 40 - Financial Leverage and Total Leverage
- Lecture 41 - Introduction to Stocks
- Lecture 42 - Stock Valuation
- Lecture 43 - Two Stage Dividend Growth and Preferred Stocks
- Lecture 44 - Introduction to Bonds
- Lecture 45 - Bond Premium and Discount, Bond Purchase
- Lecture 46 - Introduction to Mutual funds
- Lecture 47 - Performance Measures
- Lecture 48 - Options
- Lecture 49 - Option Valuation
- Lecture 50 - Introduction to Cost of Capital and Ratio Analysis
- Lecture 51 - Introduction to Risk Measurement
- Lecture 52 - Decision-Making Under Risk
- Lecture 53 - Decision Under Uncertainty
- Lecture 54 - Risk Premium, Portfolio Return and Risk
- Lecture 55 - Portfolio Diversification
- Lecture 56 - Introduction to Insurance, Mortality Table
- Lecture 57 - Pure Endowment and Life Annuities
- Lecture 58 - Introduction to Life Insurance
- Lecture 59 - Types of Life Insurance Policies
- Lecture 60 - Reserve Funds, Property and Casualty Insurance