Mindluster Platform

About the course Mathematical Finance Fundamentals

Mathematical Finance course in hindi, in ths course explore the application of mathematical models and techniques in financial analysis, risk management, and investment strategies.

Business Category's Courses

Course Lesson(37)

Lesson 1 : **Mathematical Finance Introduction Video**

Lesson 2 : **Lec 01 Introduction to Financial Markets and Bonds**

Lesson 3 : **Lec 02 Introduction to Stocks Futures Forwards and Swaps**

Lesson 4 : **Lec 03 Introduction to Options**

Lesson 5 : **Lec 04 Interest Rates and Present Value**

Lesson 6 : **Lec 05 Present Future Values Annuities Amortization and Bond Yield**

Lesson 7 : **Lec 06 Price Yield Curve and Term Structure of Interest Rates**

Lesson 8 : **Lec 07 Markowitz Theory Return Risk and Two Asset Portfolio**

Lesson 9 : **Lec 08 Minimum Variance Portfolio and Feasible Set**

Lesson 10 : **Lec 09 Multi Asset Portfolio Min Variance Portfolio Efficient Frontier Min Variance Line**

Lesson 11 : **Lec 10 Minimum Variance Line Continued Market Portfolio**

Lesson 12 : **Lec 11 Capital Market Line Capital Asset Pricing Model**

Lesson 13 : **Lec 12 Performance Analysis**

Lesson 14 : **Lec 13 No Arbitrage Principle and Pricing of Forward Contracts**

Lesson 15 : **Lec 14 Futures Options and Put Call Parity**

Lesson 16 : **Lec 15 Bounds on Options**

Lesson 17 : **Lec 16 Derivative Pricing in a Single Period Binomial Model**

Lesson 18 : **Lec 17 Derivative Pricing in Multiperiod Binomial Model**

Lesson 19 : **Lec 18 Derivative Pricing in Binomial Model and Path Dependent Options**

Lesson 20 : **Lec 19 Discrete Probability Spaces**

Lesson 21 : **Lec 20 Filtrations and Conditional Expectations**

Lesson 22 : **Lec 21 Properties of Conditional Expectations**

Lesson 23 : **Lec 22 Examples of Conditional Expectations Martingales**

Lesson 24 : **Lec 23 Risk Neutral Pricing of European Derivatives in Binomial Model**

Lesson 25 : **Lec 24 Actual and Risk Neutral Probabilities Markov Process American Options**

Lesson 26 : **Lec 25 General Probability Spaces Expectations Change of Measure**

Lesson 27 : **Lec 26 Filtrations Independence Conditional Expectations**

Lesson 28 : **Lec 27 Brownian Motion and its Properties**

Lesson 29 : **Lec 28 ItÃ´ Integral and its Properties**

Lesson 30 : **Lec 29 ItÃ´ Formula ItÃ´ Processes**

Lesson 31 : **Lec 30 Multivariable Stochastic Calculus Stochastic Differential Equations**

Lesson 32 : **Lec 31 Black Scholes Merton BSM Model BSM Equation BSM Formula**

Lesson 33 : **Lec 32 Greeks Put Call Parity Change of Measure**

Lesson 34 : **Lec 33 Girsanov Theorem Risk Neutral Pricing of Derivatives BSM Formula**

Lesson 35 : **Lec 34 MRT and Hedging Multidimensional Girsanov and MRT**

Lesson 36 : **Lec 35 Multidimensional BSM Model Fundamental Theorems of Asset Pricing**

Lesson 37 : **Lec 36 BSM Model with Dividend Paying Stocks**

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