NIRMA UNIVERSITY Institute of Management Master of Business Administration (Full Time) Programme/ Integrated Bachelor of Business Administration-Master of Business Administration Programme/ Master of Business Administration (Family Business & Entrepreneurship) Programme

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Course Code	MFT5SEEF04	MBM5SEEF04	MFB5SEEF04
Course Title	Derivatives and	Risk Management	

Course Learning Outcomes (CLO):

At the end of the course, the students will be able to:

- 1. Explain the application of financial derivative instruments for hedging, trading and arbitrage purposes and understand their regulatory framework.
- 2. Apply the principles and models for valuation of financial derivatives.
- 3. Apply the principles and models for measuring risk.

Syllabus

Teaching Hours

Unit I: Overview of Financial Derivatives	03
 Enterprise Risk Management and Derivatives 	
• Types of derivatives: Forward and Futures, Options, Swaps	
• Financial derivatives markets: OTC, Exchange-traded	
• Scope of financial derivatives: Stocks & Indices, Foreign Exchange,	
Interest Rates	
Unit II: Forward and Futures	07
• Understanding the forward and futures contracts	
Hedging with forward/futures	
Determination of forward/futures prices	
Stock and Index Futures	
Currency Futures	
Interest Rate Futures	
Unit III: Options	11
Understanding the option contracts	
Hedging with options	
Determination of option prices: Black-Scholes-Merton Model	
Stock and Index Options	
Currency Options	
Interest Rate Options	
Volatility Smiles	
Option trading strategies	

Option Greeks	
Unit IV: Swaps	03
• Understanding the swap contracts	
• Designing the swaps: Interest Rates, Currency	
Unit V: Value at Risk	03
Concept of VaR	
Measuring VaR: Single Security and Portfolio	
Unit VI: Other Derivatives	03
Introduction to Commodity Derivatives	
Introduction to Credit Derivatives	

Suggested Readings:

- 1. Hull, J. C., Options futures and other derivatives. Pearson Education India.
- 2. Chance, D. M., & Brooks, R., Derivatives and Risk Management Basics. *Cengage Learning, New.*
- 3. Sundaram, R. K., & Das, S. R., *Derivatives: principles and practice*. New York, NY: McGraw-Hill Irwin.
- 4. Vohra, N.D., Futures and Options. Tata McGraw Hill Education Pvt. Limited.
- 5. Janakiramanan, S., Derivatives and risk management. Pearson Education India.
- 6. Madhumathi, R., Derivatives and Risk Management. Pearson Education India.

w.e.f. Academic Year 2019-20 and onwards