

Syllabus for Master of Business Administration, 3rd Semester Functional Area Specialization: Finance Management Subject Name: Financial Derivatives (FD) Subject Code: 4539222

With effective from academic year 2018-19

1. Learning Outcomes:

Learning Outcome Component	Learning Outcome		
Business Environment and Domain Knowledge (BEDK)	Demonstrate an understanding of the risk management approaches and techniques. Describe and explain the fundamental features of a range of key financial derivatives instruments.		
Critical thinking, Business Analysis, Problem Solving and Innovative Solutions (CBPI)	Ability to solve problems requiring pricing derivative instruments and hedge market risk based on numerical data and current market trends. Ability to devise risk management strategies and solutions based on a detailed analysis of risk assessment and associated factors.		
Global Exposure and Cross- Cultural Understanding (GECCU)	• Understand global conventions of valuing financial derivatives.		
Social Responsiveness and Ethics (SRE)	• Evaluate, synthesise and communicate the ethical implications of financial risk management policies and practices to an intended audience.		
Effective Communication (EC)	• Ability to understand the risk management needs of clients and effectively communicate solutions comprising financial derivatives.		
Leadership and Teamwork (LT)	• Ability to work independently or as part of a team to develop optimal investment strategies integrating financial derivative instruments.		

2. Course Duration: The course duration is of 40 sessions of 60 minutes each.

3. Course Contents:

Module No:	Contents	No. of Sessions	70 Marks (External Evaluation)
	 Introduction to risk management: (Only theory) Defining and managing risk Upside and downside risks Commodity price risk 		
	 Interest rate risk Approaches to risk management Introduction to derivatives: 		
I	 Defining derivatives and derivative markets Spot v/s Derivatives markets Forward, Futures, Options, Swaps Uses of derivatives 	10	18
	 Derivatives Market: International and Indian derivatives market Derivative exchanges Trading system and types of traders 		



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	Trading process, online tradingClearing and settlement system		
	Regulatory framework of derivatives market in India.		
	 Forward Contracts: Meaning, purpose, advantages and problems Pricing of commodity forward contracts (Theory and numerical). Interest rate forwards (Theory and numerical). 		
II	 Margins and marking-to-market (Theory and numerical). Cost of Carry Models (Theory and numerical). Price quotes, settlement price, open interest Types of orders Hedging, Speculation and Arbitrage using Futures: Basis risk. Factors affecting basis risk Single stock futures and Stock Index Futures (Theory and numerical). Commodity futures (Theory and numerical). 		18
III	 Fundamentals of Options: Options issued by corporations (introduction) Meaning of options contract, options terminologies Moneyness in options (ITM, ATM, OTM) (Theory and numerical). Factors affecting Options premium Exchange traded options Call and Put options. (Theory and numerical). Options Trading Strategies: Uncovered Covered Spread Combination Put-Call Parity: (Theory and numerical). Risk free security Put-call relationship Binomial Options Pricing Model: (Theory and numerical). Binomial Options Pricing model for call and put 	10	17



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	 options Single period and two-period binomial options pricing model 		
IV	 Black-Scholes Options Pricing model: (Theory and numerical). Stock price behaviour Assumptions in Black-Scholes model Black-Scholes model for pricing call and put options Greeks in Options (only theory): Risks in options trading Characteristics of options hedging Greeks in options hedging: delta, gamma, theta, vega, rho. SWAPS (Only theory): Swaps: meaning, types, terminologies Forward swaps Swaptions Equity swaps Commodity swaps 	10	17
V	 Practical: Analysing Various Derivative Contract Specifications from Exchanges. Mark to Market Margin Calculation on Real time data from Exchanges. Understanding the trading and settlement process and other documentary requirements at Brokers' office to open the trading account. Calculating the futures and options price with cost of carry, binomial and BS Models on real time data from Exchange & analysing them with current market price. Forming of different futures and options trading strategies with the real time data from Exchange. Forming of hedging with real time data from commodities and currency Exchanges. 		(30 marks CEC)

4. Pedagogy:

- ICT enabled Classroom teaching
- Case study
- Practical / live assignment
- Interactive class room discussions

5. Evaluation:

Students shall be evaluated on the following components:

A Internal Evaluation		Internal Evaluation	(Internal Assessment- 50 Marks)	
		Continuous Evaluation Component	30 marks	



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	Class Presence & Participation	10 marks
	• Quiz	10 marks
В	Mid-Semester examination	(Internal Assessment-30 Marks)
C	End –Semester Examination	(External Assessment-70 Marks)

6. Reference Books:

No.	Author	Name of the Book	Publisher	Year of Publication / Edition
1	Sundaram Janakiramanan	Derivatives and Risk Management	Pearson Education	2011 / 1 st
2	Rajiv Srivastava	Derivatives & Risk Management	Oxford University	2014 / 2 nd
3	R. Madhumathi, M. Ranganatham	Derivatives & Risk Management	Pearson	2014 / 2 nd
4	John C. Hull	Fundamentals of Futures and Options Market	Pearson	2016 / 8 th
5	Verma	Derivatives & Risk Management	Tata McGraw hill	2008
6	Vohra & Bagri	Futures and Options	McGraw Hill	2017 / 2 nd
7	David A. Dubofsky, Thomas W. Miler	Derivatives: Valuation and Risk Management	Oxford University Press	Latest Edition
8	A. Maheshwari, D. Chugh	Financial Derivatives	Pearson	2012 / 1 st

Note: Wherever the standard books are not available for the topic appropriate print and online resources, journals and books published by different authors may be prescribed.

7. List of Journals/Periodicals/Magazines/Newspapers / Web resources, etc.

- 1. Indian Journal of Finance
- 2. International Journal of Financial Markets and Derivatives
- 3. Business Standard
- 4. The Economic Times
- 5. Financial Express
- 6. NSE & BSE, SEBI, FMC, RBI Websites
- 7. ICFAI journal of Derivative Market
- 8. Business Today
- 9. Business India
- 10. Business World
- 11. Finance India
- 12. Treasury Management
- 13. Financial Risk Management