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| **Program: Bachelor of Commerce (Economics and Analytics)** | **Semester I** |
| **Course: Financial Derivatives and Commodity Market****AY: 2023-24** | Code: |
| Teaching Scheme | Evaluation Scheme |
| Lecture | Practical | Tutorial | Credits | **Internal Continuous Assessment (ICA)** | **Term End Examinations (TEE)** |
| 20 | 30 |
| 30 | - | - | 02 |
| **Learning Objectives** |
| * Acquire knowledge of how forward contracts, futures contracts, swaps and options work, how they are used and how they are priced.
* Have a good understanding of derivative securities
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| **Learning Outcomes** |
| * Students will understand the different types of derivative instruments their features & importance.
* Students will understand how to hedge a position, to increase leverage, or to speculate on an asset's movement by using future contracts, forward contracts, options.
* Students will understand the importance of options, options Greeks.
* Students should understand the trading and clearing mechanism
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| **Pedagogy** |
| Lecture method, Debates, Group Discussions, Group activities, using excel to calculate option pricing, exploring websites to calculate margin money blocked in different strategies  |
| Detailed Syllabus Plan |
| Module | Module Content | Module wise Pedagogy Used | Duration of Module | Reference Book |
| I |

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| **Introduction to Derivatives and Commodity Market**  |
|  Definition – Types- Participants and Functions- Development of Exchange traded derivatives- Global derivatives markets- Exchange traded vs OTC derivatives markets- Derivatives trading in IndiaIntroduction to Commodity Market:- Meaning of the term Commodity, Commodity Markets, Market for agricultural commodities, Working of agricultural markets in India, Commodity Exchanges around the world, Commodity Exchanges in India. Physical Markets and need for derivatives market, Factors affecting commodity prices, Evolution of commodity derivatives, Physical and Derivatives Market for Commodities, Regulations of Commodity Markets. |

 | Lecture method, Debates, Group Discussions, Group activities. | 10 lectures |  FINANCIAL DERIVATIVES THEORY, CONCEPTS AND PROBLEMS Gupta S.L., PHI, Delhi  FINANCIAL DERIVATIVES: S S S Kumar:  DERIVATIVES and Risk Management Basics, Cengage Learning, Delhi. Stulz M. Rene,  RISK MANAGEMENT & DERIVATIVES, Cengage Learning, New Delhi.  Fundamentals of Financial Derivatives : Prafulla Kumar Swain : Himalaya Publishing  |
| II |

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| **Futures and options- introduction** |
|  Futures: Introduction- Future terminology- Key features of futures contracts- Future vs. Forwards- Pay off for futures- Equity futures- Equity futures in India-Index futures- Stock futures- Future trading strategies Hedging- Speculation- Arbitrage- Spread trading. · Options: Introduction- Option terminology- Types- Options pay off- Options trading strategies- Hedging- Speculation- Arbitrage- Straddle- Strangles- Strips and Straps – Spread trading**Commodity Derivatives:-**Meaning of Derivatives, types of derivatives, commodities traded in derivatives markets, pricing of futures, cost of carry and convenience yield, participants of derivatives market, Hedging using futures. |

 | Lecture method, Debates, Group Discussions, Group activities, Role play,  | 10 lectures |  |
| III |

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| **Trading Clearing and Settlement of Options and Futures**  |
|  Futures and Options trading system- Trader workstations- contract specification- specification for stock and index eligibility for trading charges  Clearing entities and their role- clearing mechanism –adjustment for corporate actions- open position calculation  Margining and settlement mechanism- Risk management- SPAN – Mechanics of SPAN- Overall portfolio margin requirements.  |

 | Lecture method, Discussions, Class activities, Written assignments  | 10 lectures |  |

**Evaluation Pattern:**

The performance of the learner will be evaluated for 50 marks in two components. The first component will be a Continuous Assessment with a weightage of 40% of total marks per course. The second component will be a Semester end Examination with a weightage of 60% of the total marks per course. The allocation of marks for the Continuous Assessment and Semester end Examinations is as shown below:

#### a). Details of Continuous Assessment (CA)

40% of the total marks per course:

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| **Total Marks** | **External Component** | **Internal Component[ICA]** | **ICA Component** |
| **Internal test** | **Assignment** |
| 50 | 30 | 20 | 10 | 10 |
| 1] For 50 Marks-ICA Test Component-2 test of 10 marks, Average of the 2.2] Duration: 30 marks -1 hour, 10 marks-20 Minutes3]ICA Test-Offline |
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**b. End semester exam(60% of total marks)**

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| **SEMESTER END ASSESSMENT: 30 MARKS DURATION: 1 HOUR** Question Paper Pattern (Semester –end Examination)All questions are compulsory

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| Q. No. | Particulars | Marks |
| Q.1. | 1. Answer in brief

OR B) Answer in brief |  8   |
| Q.2. | 1. Answer in brief

OR B) Answer in brief |  8   |
| Q.3. | 1. Answer in brief

OR B) Answer in brief |  8   |
| Q.4. | Read the following Case Study and answer the questions that follow. |  6 |

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