BBA III Year	BBA-E506/606		Semester-V/VI		
	Financial Model				
Time Allotted for	Marks Allotted for	Marks Allotted for End	Maximum	Total	Maximum
End Semester	Internal	Semester Examination	Marks (MM)	Credits	Hours
Examination	Assessment	(ESE)			
3 Hrs.	30 (20+10)	70	100	06	60

**OBJECTIVE:** To equip students with principles and techniques of Financial modelling along with various Financial Derivatives including Greeks & Exotic Options.

- Introduction: Financial Time Series and Their Characteristics: Asset Returns; Distributional Properties of Returns; Review of Statistical Distributions and Their Moments, Distributions of Returns, Multivariate Returns, and Likelihood Function of Returns and Empirical Properties of Returns
   (15 Hours)
- Linear Time Series Analysis and Its Applications: Stationarity; Correlation and Autocorrelation Function; White Noise and Linear Time Series. (15 Hours)
- Financial Derivatives: Introduction, various underlying and strategies: Forwards and Futures, Interest rate futures and currency futures; Determination of forward and futures prices; Options and related terminology, Calculating the pay-off from options and diagrammatic representation. (15 Hours)
- Pricing of Options- Binomial model and Black-Scholes model; trading strategies involving options; Exotic Options; Introduction to Swaps, Interest rate swaps, currency swaps, cross currency swaps; Forward rate agreements (FRA). Interest rate caps, floors, collars. (15 Hours)

## **SUGGESTED READINGS:**

- 1. Franke, J., Wolfgang H. & Christian, H. (2000). Introduction to Statistics of Financial Markets. Germany: Springer.
- 2. Hull, John, C.(2009). Options, Futures and Other Derivatives (7th Ed.). New Delhi: Pearson Education.
- 3. Tsay, Ruey S. (2005). Analysis of Financial Time Series (2nd Ed.). India: John Wiley.
- 4. Madhumathi, R.& Ranganatham, M. (2012). *Derivatives and risk management* (1st Ed.). New Delhi:Pearson eduction.
- 5. Redhead, K. (1996). *Financial Derivatives- An introduction to futures, forwards, options, swaps.* New Delhi: Prentice Hall of India.

**NOTE:** The list of cases, specific references and books including recent articles will be announced in the class by concerned teachers from time to time.