Credit Course
Mathematics & Statistics for Economic Analysis

No of Credits: 02	Course Code:	No. of Hours: 30

Objectives

- To familiarize the students with a basic understanding of Mathematics and Statistics.
- To equip the students with the ability to apply these mathematical and statistical tools to Economic Analysis.

Unit 1: Statistical Tools for Economic Analysis	15
1.1 Measures of Central Tendency; Measures of Dispersion. 1.2 Standard Deviation. 1.3 Uni-variate and Bi-variate frequency distribution and Correlation 1.4 Regression Analysis (Linear Regression) 1.5 Random Variables- discrete and continuous 1.6 Probability and Probability Distribution	

Unit 2: Mathematical Tools for Economic Analysis	15
2.1 Matrix Algebra 2.2 Differentiation and its application in Economic Theory 2.3 Maxima and Minima – Economic Applications 2.4 Integration and its Application in Economics 2.5 Time Series	

Reference Books:

1) Agarwal, B.L. (latest ed): " Basic Statistics", Wiley Eastern Ltd, N. Delhi.
2) Ayres, Frank Jr (latest ed): ''Calculus", McGraw Hill Book Co, Singpore & London.
3) Gupta, S.C. (2009):"Fundamentals of Statistics" Himalaya Publishing House, Mumbai.
4) Lipschutz, Seymour (latest ed): "Theory and Problems of Probability", McGraw Hill Book Co, Singapore and London.
5) Sampat Mukherjee and Lalima Mukherjee (2013):'Statistics for Economics', New Central Book Agency (P) Ltd, Kolkata.

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