

Programme: M. A. Economics

Course Code: ECC 116

Title of the Course: STATISTICS FOR ECONOMIC
ANALYSIS

Number of Credits: 4

Total Contact Hours:48

Effective from AY: 2018-19

<u>Prerequisites for the course:</u>	Nil	
<u>Objective:</u>	To learn the statistical techniques and concepts that aid economic analysis.	Contact Hours
<u>Content:</u>	1. Probability Sample Space, Random Variable, Addition and multiplication theorem-Conditional Probability, Bayes Theorem, Distribution Function, Mathematical Expectation, Measures of central tendency and variance. 2. Probability Distributions : Discrete, Continuous and Sampling Distributions: Binomial, Poisson, Normal, Standard Normal, Student-t, Chi-Square, F-distribution. 3. Testing of Hypotheses: Concepts & Applications Testing of Hypothesis; Null and Alternative Hypothesis, Type I & II errors. Levels of Significance. Testing mean, proportion -single and two populations. Testing t, z, F, chi-square test. 5. Correlation & Regression: Covariance, Correlation, Rank Correlation. Introduction to Two Variable Regression.	12 12 12 12
<u>Pedagogy:</u>	16. Chalk and talk aided by power-point lectures 17. PC lab exercises 18. Android based activity 19. Assignments and presentations 20. Group activity 21. MOOC (or similar) Component	
<u>References/Readings</u>	• Mark L. Berenson, David M. Levine, Kathryn A. Szabat (2015), Basic Business Statistics, Pearson publication • David M. Levine, Kathryn A. Szabat, David F. Stephan, Statistics For Managers Using Ms Excel,	
<u>Learning Outcomes</u>	By the end of the course, successful students are expected to understand basic statistical techniques and be in preparation for learning Econometrics	