

SARDAR PATEL UNIVERSITY
Programme: B.Sc
Semester: IV
Syllabus with effect from: November - 2012

Paper Code: US04FSTA01	Total Credit: 2
Title of Paper: Foundation of Statistics - II	

Unit	Description in detail	Weightage (%)
I	Correlation & Regression Meaning Types of correlation Methods of studying correlation Scatter diagram(plot) method Karl-Pearson's correlation coefficient method Properties of correlation coefficients (without proof) Applications Regression Meaning Properties of regression coefficients (without proof) Applications	
II	Probability Distributions Binomial , Poisson and Normal distribution Applications	
III	Test of Significance-I Test of Independence Large sample test Test for population proportion Test for difference between two population proportions Test for population mean Test for difference between two population means	
IV	Test of Significance-II Small sample test Test for population mean Test for difference between two population means (Unpaired t-test) Test for difference between two population means (Paired t-test)	

Basic Text & Reference Books:

- Gupta S.C. & Kapoor V.K. Fundamentals of applied statistics
- Gupta S.C, Fundamentals of statistics by S.C. Gupta

