

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	25%
II	Probability Distributions Binomial , Poisson and Normal distribution Applications	25%
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	25%
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)	25%

Basic Text & Reference Books:

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

