

SARDAR PATEL UNIVERSITY
Programme: M.Sc (Home Science)
Subject: Textiles & Clothing
Semester: II
Syllabus with Effect from: June - 2013

Paper Code: PH02CHSC01	Total Credit: 4
Title Of Paper: Statistics	

Unit	Description in detail	Weightage (%)
I	Definition and scope of Statistics: Descriptive statistics (i) Measures of central tendency, Mean (Arithmetic, Harmonic and Geometric means), Median and Mode (ii) Measures of dispersion-standard deviation, coefficient of variation and standard errors.	
II	Elements of probability theory: Concept of Probability, definition, laws and conditional probability	
III	Probability distribution: Binomial, Poisson and Normal distribution, Application in Home Science Courses	
IV	Bivariate Data: Correlation coefficient, Product and rank correlation coefficients, simple linear regression.	
V	Basic idea of significance test, Statistical Hypothesis, types of errors, levels of significance, Student's chi-square and F tests, large sample tests.	
VI	General awareness of popular software packages for word processing DBMS, Spread sheet graphics etc. knowledge of statistical packages like SPSS, SAS, MINITAB, MATLAB etc. Use of these packages for statistical analysis in Home Science Courses	

