

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

<b>Paper Code: PH03CHSC01</b>	<b>Total Credit: 4</b>
<b>Title Of Paper: Research Methodology &amp; Scientific Writing</b>	

Unit	Description in detail	Weightage (%)
I	<p><b>Research Methodology-</b> Introduction, meaning of research, definition, characteristics and function, objectives, classification and kinds of research.</p> <p><b>Research Problem-</b> Introduction, selecting the problem, defining the problem, sources of problem, Criteria for selection of the problem, delimiting a problem, assumptions about a problem, evaluating the problem.</p>	
II	<p><b>Foundation of Hypothesis-</b> Meaning, definitions; assumption, postulate and hypothesis; nature of hypothesis Functions, importance, kinds, characteristics of a good hypothesis, variables in a hypothesis, sources of hypothesis, testing of hypothesis</p> <p><b>Research plan/design and sampling-</b> Meaning and definition of plan/design, design format Meaning and definition of sampling, functions of population and sampling, types of Sampling designs, characteristics of a good sample, application of sampling technique in various types of researches.</p>	
III	<p><b>Types of Researches-</b> Survey, historical, philosophical, experimental, case study, genetic</p> <p><b>Design of Experiments-</b> Need and purpose, importance, characteristics of good experimental design, basic principles, types of basic experimental design</p>	
IV	<p><b>Tools of Research-</b> Questionnaire, schedule, rating scale, tests</p> <p><b>Collection of Data-</b> Need, meaning, nature; constants, variables, variate; characteristics of quantitative data, types of data, data collection, organization of data.</p>	
V	<p><b>Research Report and proposal Writing-</b> Need of research report, format of research report (preliminary section, main section &amp; reference section), mechanics of report writing Writing Research Abstract Writing research Paper Need of research proposal for dissertation of Ph.D. , to get funds from various sources</p>	

