

		Children's University School of Nutrition and Health Department of Home Science Gandhinagar.		ACADEMIC YEAR 2020-21	
M.Phil Home Science					
Year	I	Course Type: Core Course Course No: MHC-101 Course Title: Research Methodology-I		Credits	4
Semester	I			Hours/wk	4
Objectives	<ol style="list-style-type: none"> 1. To understand the significance of statistics and research methodology in Home Science research 2. To understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design. 3. To understand and apply the appropriate statistical techniques for the measurement scale and Design. 				
Unit I	Research- Meaning, purpose, approaches and Sampling & Tools <ul style="list-style-type: none"> • Exploration, Description, Explanation • Scientific method and research • Research Designs –Experimental and Observational • Quantitative and Qualitative approaches • Conceptualization and Measurement Variables, concepts and measurement • Levels of measurement • Units of analysis • Role of sampling in research • Types of sampling • Research Tools and Techniques Validity and reliability • Interviewing and observational methods 				

<p>Unit II</p>	<p>The Research Process, Types of Research Tools (Qualitative and Quantitative)</p> <ul style="list-style-type: none"> • Defining the problem, research questions, objectives, hypotheses • Review of related literature and originality in writing • Planning the research • Subjects context and ethics • Methodology and tools • Citation formats: in medical sciences, social sciences. • Focus Group Discussion • Case studies • Observations-Direct, Spot observations • Body mapping • Pile sorting • Free listing • Narrations • In depth interview • Drawing as dialog
<p>Unit III</p>	<p>Representation of Data</p> <ul style="list-style-type: none"> • Graphical and Diagrammatic Presentation of Data (Bar diagrams, Pie-diagram, • Histogram, Frequency Polygon, Smoothed frequency curve and Ogives) • Tabulation and Classification • Frequency Distribution
<p>Unit IV</p>	<p>Basics of Statistical Analysis</p> <ul style="list-style-type: none"> • Conceptual understanding of statistical measures • Measurement of central tendency • Measurement of variation • Skewness and Kurtosis

References

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17. આંકડાશાસ્ત્રીય અનુમાન અનુ .પ્રી .જી .સી .પટેલ યુનીવર્સિટી ગ્રંથ નિર્માણ બોર્ડ
18. પ્રયુક્ત આંકડાશાસ્ત્ર આર ટી .રતાણી યુનીવર્સિટી ગ્રંથ નિર્માણ બોર્ડ
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