

SARDAR PATEL UNIVERSITY

Vallabh Vidyanagar, Gujarat

(Reaccredited with 'A' Grade by NAAC (CGPA 3.25) Syllabus with effect from the Academic Year 2021-2022

(Master of Science –Home Science) (Foods and Nutrition) (M.Sc.-H.Sc.) (Foods and Nutrition) Semester (II)

Course Code	PH02CFDN51	Title of the Course	Statistics
Total Credits of the Course	02	Hours per Week	02

	 To understand the role of statistics in research To apply different statistical methods to analyze and interpret the data
3	

Course	Course Content	
Unit	Description	Weightage (%)
1.	 (a) Introduction and scope of Statistics (b) Types of data: Qualitative and quantitative (c) Frequency distribution and graphical presentation of data (Histogram, Frequency polygon, Frequency curve, cumulative frequency curves) 	25
2.	(a) Measures of central tendency, Mean (Arithmetic, Harmonic and Geometric means), Median and Mode(b) Measures of dispersion-standard deviation, coefficient of variation and standard errors	25
3.	(a) Bivariate Data: Correlation coefficient, Product and rank correlation coefficients and its application in the field of home science(b) Regression: Simple linear regression and its application in the field of Home Science	25
4.	 (a) Basic idea of significance test, Statistical Hypothesis, levels of significance, Student's t-test, paired t-test, chi- square and F tests, large sample tests (b) General awareness of popular software packages for word processing SPSS, Spread sheet, openepi etc. Sample size calculation and analysis of data using these softwares 	25

Teaching- Learning Methodology	Classroom lectures (Blackboard/Power Point Presentations), Discussion on recent application in research with suitable examples
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Evaluation Pattern





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Sr. No.	Details of the Evaluation	Weightage
1.	Internal Written Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Quizzes, Assignments, Attendance (As per CBCS R.6.8.3)	15%
3.	University Examination	70%

Course Outcomes: Having completed this course, the learner will be able to	
1.	Identify different types of data.
2.	Describe application of basic statistical treatment for different types of data.

Sugges	Suggested References:	
Sr. No.	References	
1.	Gupta, S. C. (2001). Fundamentals of statistics. Himalaya Pub House.	
2.	Rao, K. V. (2007). <i>Biostatistics: a manual of statistical methods for use in health, nutrition and anthropology</i> (No. Ed. 2). Jaypee Brothers Medical Publishers (P) Ltd.	
3.	Pal, N. & Sarkar, S. (2005) Statistics: Concepts and applications. Prentice-Hall of India Pvt. Ltd.	

On-line resources to be used if available as reference material
On-line Resources
https://epgp.inflibnet.ac.in/Home/ViewSubject?catid=827

