SARDAR PATEL UNIVERSITY
Vallabh Vidyanagar, Gujarat
(Reaccredited with 'A' Grade by NAAC (CGPA 3.11)
Syllabus as per NEP 2020 with effect from the Academic Year 2023-2024

(B.Com) (Business Studies)
(B.COM) (Programme Name) Semester (I)

Course Code	UB01MACOM05	Title of theCourse	ADVANCED STATISTICS -I
Total Credits of the Course	04	Hours per Week	04

Course Objectives:	The objectives will be to achieve a deep understanding of particularstatistical methods and to learn to use some advanced tools for analyzing and developing statistical methods.

Course Content		
Unit	**Description**	**Weightage* (%)**
1.	**Statistics, Primary data and Secondary data, classification.** Definition of Statistics, Concept of Primary and Secondary data. Methods of collecting Primary data: Direct Investigation,indirect investigation, information through local agency, mailed questionnaire, Framing of questionnaire, source of secondary data. Concept of classification, types and Importance of classification, example of classification.	25%
2.	**Graphs and Diagrams.** Representation of statistical data on (1) Histogram (2) Frequency Polygon (3) Frequency Curve (Ogive Curve), (4) Pie Chart.. To obtain median, mode, from the above graphs,Simple examples.	25%
3.	**Measure Of Central Tendency** Meaning of central tendency, various measures of centraltendency: A.M., Median, Mode Their merits and demerits, Simple examples of Mean,Mode and Median. Various Measure of Central tendency: Quartiles, Deciles,Percentiles, their merits, demerits, and simple examples.	25%
4.	**Measure of Dispersion:** Definition of dispersion, Measures of dispersion.Simple Examples to Find various measures Of dispersion by different methods (Range, Q.D., M.D., S.D.)for grouped and ungrouped data.	25%

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Teaching- Learning Methodology	These are teacher-centred methods, learner-centred methods, content-focused methods and interactive/participative methods.

Evaluation Pattern		
Sr. No.	**Details of the Evaluation**	**Weightage**
1.	Internal Written / Practical Examination (As per CBCS R.6.8.3)	15%
2.	Internal Continuous Assessment in the form of Practical, Viva-voce, Quizzes,Seminars, 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.	• Organize, manage and present data.
2.	• Analyze statistical data graphically using frequency distributions and cumulativefrequency distribution s.
3.	• Analyze statistical data using measures of central tendency, dispersion and location.
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Suggested References:	
Sr. No.	**References**
1.	**D.S.Sancheti and V.K.Kapoor**: Statistics: Theory, Method and application. Sultan Chand and sons, New Delhi.
2.	**D.N.Elhance**: Fundamental Of Statistics.
3	**Goon, Gupta, Dasgupta**: An outline of Statistical Theory Volume 1 and 2, world press Calcutta

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