



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	UB1MACOM05	Title of the Course	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 particular statistical methods and to learn to use some advanced tools for analyzing and developing statistical methods.
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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 central tendency: 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%



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