



**SARDAR PATEL UNIVERSITY**  
**VallabhVidyanagar, Gujarat**  
**(Reaccredited with 'A' Grade by NAAC (CGPA 3.25)**  
**Syllabus with effect from the Academic Year 2021-2022**

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

Course Code	UB01DCOM85	Title of the Course	ADVANCED STATISTICS-I
Total Credits of the Course	03	Hours per Week	03

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.	<b>Statistics, Primary data and Secondary data, classification.</b> 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.	<b>Graphs and Diagrams.</b> 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.	<b>Measure Of Central Tendency</b> 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.	<b>Measure of Dispersion:</b> 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.	<ul style="list-style-type: none"> <li>Organize, manage and present data.</li> </ul>
2.	<ul style="list-style-type: none"> <li>Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.</li> </ul>
3.	<ul style="list-style-type: none"> <li>Analyze statistical data using measures of central tendency, dispersion and location.</li> </ul>
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Suggested References:	
Sr. No.	References
1.	<b>D.S.Sancheti and V.K.Kapoor:</b> Statistics: Theory, Method and application. Sultan Chand and sons, New Delhi.
2.	<b>D.N.Elhance:</b> Fundamental Of Statistics.
3	<b>Goon, Gupta, Dasgupta:</b> An outline of Statistical Theory Volume 1 and 2, world press Calcutta

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