

**SARDAR PATEL UNIVERSITY**  
**B.Com. Semester: I**  
**Syllabus with Effect From: June-2019**

<b>Paper Code: UB01DCOM65</b>	<b>Total Credit:3</b>
<b>Title Of Paper: Advanced Statistics – I</b>	

**Objective:** 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.

Unit	Description of Detail	Weighting (%)
<b>I</b>	<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.	<b>25%</b>
<b>II</b>	<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.	<b>25%</b>
<b>III</b>	<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.	<b>25%</b>
<b>IV</b>	<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.	<b>25%</b>

**Basic Text & Reference Books:-**

- **D. S. Sancheti and V. K. Kapoor:** Statistics: Theory, Method and application. Sultan Chand and sons, New Delhi.
- **D. N. Elhance:** Fundamental Of Statistics.
- **Goon, Gupta, Dasgupta:** An outline of Statistical Theory Volume 1 and 2, world press Calcutta.