



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

(B.Com) (Business Studies) (Semester-II)

Course Code	UB02DCOM85	Title of the Course	ADVANCED STATISTICS-III
Total Credits of the Course	03	Hours per Week	03

Course Objectives:	The objective of the course is to provide essential knowledge of the Basics Statistics for interpreting Business information and their business application for decision making in Basic Statistics.
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Course Content		
Unit	Description	Weightage* (%)
1.	<b>Population Census</b>  Population census: Method of population census and its uses. Study of India's population census. Limits of population census.	25%
2.	<b>Demography Methods</b>  Meaning scope of demography, use of demographic statistics. Examples to find C.D.R, S.D.R and to compare the healthiness of cities. Meaning of Infant Mortality Rate (I.M.R.), Crude Birth Rate (C.B.R.), Meaning Of fertility rate, General Fertility Rate (G.F.R.), Specific Fertility Rate (S.F.R.) and total fertilityrate (T.F.R.). Simple Examples.	25%
3.	<b>Time Series</b>  Meaning of time series, various components of time series: Trend, Seasonal, Cyclical, And random components. Method of measuring Trend by (a) Graphical Method (2) Moving Average Method. Seasonal Indices and simple sums of Seasonal variations.	25%
4.	<b>Index Number</b>  Definition, Limitation and uses of index number. Construction of cost of living index number, Wholesale index number, construction of index number by aggregate expenditure method and family budget method and family budgetmethod using Laspeyers, Paasches and Fishers formula.	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.	Uses of population census for the better use of the resources available.
2.	Uses of birth rate and death rate for study of health regarding issues.
3.	Uses of time series for the upcoming year data and prediction for the future.
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Suggested References:	
Sr. No.	References
1.	<b>S.C Gupta and V.K.Kapoor:</b> Fundamental of applied statistics, Sultan Chand and sons, NewDelhi.
2.	<b>Kapoor V.K.:</b> Business Mathematics, Sultan chand and sons, New Delhi.
3	<b>Parimal Mukhopadhay:</b> Mathematical Statistics, Books and allied P.Ltd.

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