## SARDAR PATEL UNIVERSITY

Programme: B.Com. Semester: II

Syllabus with Effect From: November/December-2018

Paper Code: UB02DCOM35	Total Constitut
Title Of Paper: Advanced Statistics - III	Total Credit:3

**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 (%)
I	Population Census	25%
	Population census: Method of population census and its uses. Study of India's	
	population census. Limits of population census.	
II	Demography Methods	25%
	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 fertility	
	rate (T.F.R.). Simple Examples.	
III	Time Series	25%
	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.	
IV	Index Number	25%
	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 budget	
	method using Laspeyers, Paasches and Fishers formula.	

## **Basic Text & Reference Books:-**

- > S.C Gupta and V.K.Kapoor: Fundamental of applied statistics, Sultan Chand and sons, New Delhi.
- **Kapoor V.K.**: Business Mathematics, Sultan chand and sons, New Delhi.
- **Parimal Mukhopadhay:** Mathematical Statistics, Books and allied P.Ltd.