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

Paper Code: UB01DCOM66	Tatal Cuadity?	
Title Of Paper: Advanced Statistics – II	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 (%)
Ι	Permutation and Combination:	25%
	Basic idea of permutation and combinations with simple examples. Formula for	
	^{<i>n</i>} P_r And ^{<i>n</i>} c_r without proof.	
II	Probability	25%
	Definition of Random Experiment, Sample Space, Event, Mutually Exclusive	
	Events, Exhaustive events, Dependent and independent Events, Mathematical	
	And Statistical Definition of probability, Theorems of addition and multiplication	
	law of probability without proof, conditional probability with simple sums.	
III	Mathematical Expectation	25%
	Concept of Mathematical expectation of a discrete random variable with sum and	
	product Of two independent and random variable without proof and its properties	
	with simple sums.	
IV	Moments	25%
	Definition of row and central moments of a discrete random variable up to order	
	four. The relationship of row and central moments without proof and with simple	
	sums.	

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.
- Sancheti And Kapoor : Business Mathematics, Sultan Chand and sons, New Delhi.