

∥ वसुधैव कुटुम्बकम् ∥ SYMBIOSIS													
Subject code		Semester	I	II III	IV	V	VI	M.Com.	I	II	III	IV	
Title of Subject For Approval of BOS		Statistics for Economics: Theory and Applica T.Y.BA Semester VI Special Paper 8							ions			-1	
Objectives						1							
	1. The co	1. The course aims to strengthen fundamental knowledge and understanding of the										;	
	principles and nature of statistics.												
	urse enables students to develop the skills to select, apply and use a wide												
		variety of statistical and quantitative techniques in economic analysis and in the											
	_	real-world context.											
	3. The co	ourse enables st	tudents	to be al	le to i	denti	fy and	l analyze	econo	mic p	roblen	ns	
	and op	portunities and	l formu	ılate rec	ommer	ndatio	ons fo	r courses	of act	ion.			
				l syllab									
Unit		Contents of the syllabus							Number of Lectures				
1.	Measures of Ce	Measures of Central Tendency							10				
	1.1 Classification and Tabulation of Data												
	1.2 Graphical Representation of Data												
	1.3 Computation of the three measures of Central tendency:												
	a) For an individual seriesb) for discrete seriesc) for a continuous series												
	1.4 Computation of Quartiles, Deciles and Percentiles												
	1.5 Selection of a Suitable Average												
	1.6 Practical App			Median	and N	Mode	,						
2.	Measures of Di		,							10			
	Contents:												
	2.1 Absolute and	l relative mea	sures o	of Dispe	rsion								
	2.2 Computation of Mean Deviation, Quartile Deviation &									_	_		
	Standard deviation												
	2.3 Relation bety		measu	res of D	ispers	sion							
	2.4 Concept of L												
	2.5 Concept of S		Kurtos	sis									
3.	Correlation and Regression								16	<u> </u>			
	3.1 Meaning of C							+					
	3.2 Computation			_									
	a) Karl Pearson'sb) Rank Correlat		coemic	ient									
	3.3 Meaning of I		nalveie										
	3.4 Properties of			•									
	3.5 Line of Best		231011										
	3.6 Derivation of		Eguatio	ons									

4.	Probability Theory	10
	4.1 Concept of Probability	
	4.2 Types of Events	
	4.3 Theorems of Probability:	
	a) Addition Theorem	
	b) Multiplication Theorem	
5	Association of Attributes	08
	5.1 Notation and Terminology	
	5.2 Yule's coefficient of association	
	Total No. of lectures	54

Learning Outcomes:

- To develop an outlook of logical, critical and creative thinking in problem-solving.
- To apply statistical concepts to economic theory and analysis.
- To acquire practical insights of various statistical concepts.

Suggested References:

- S.C Gupta (2018), 'Fundamentals of Statistics', Himalaya Publishing House, Mumbai.
- S. N. Dey (2015), Business Mathematics and Statistics, Chhaya Prakashani Publishers
- S. Baruah (2011), 'Basic Mathematics and its Application in Economics', Macmillan
- S. Chand (2010), 'Business Statistics', S.Chand & Company Ltd., New Delhi.
- J. Chakrabarti (2008), 'Advanced Business Mathematics and Statistics', Dey Book Concern
- David Freedman, Robaert Pisani and Roger Purves (Fourth Edition) (2007), 'Statistics', Viva Books.
- J. Medhi (2007), 'Statistical Methods -An Introductory Text', New Age International Publishers.
- J. E. Freund and Benjamin Perles (12th Edition) (2007), 'Modern Elementary Statistics'
- Akhilesh and Balasubrahmanyam, 'Mathematics and Statistics for Management', (Vikash Publishing House Pvt.Ltd.)
- Murray Spiegel and Larry Stephens, 'Schaum's Easy Outline of Statistics'.
- Case Studies http://www.stat.ucla.edu/cases/