

Course code	TITLE OF THE COURSE			L	T	P	C
ALLIED I	BUSINESS STATISTICS – I			4			4
Pre-requisite	ALLIED I: BUSINESS STATISTICS – I			Syllabus Version			
Course Objectives:							
The main objectives of this course are to:							
➤ To enrich the knowledge in statistics and to solve the statistical problems in analysis of business problems.							
➤ To be familiar with data collection, graphical presentation and classification of tables.							
➤ To inculcate the knowledge of relationship between measures of variation and value deviation.							
Expected Course Outcomes:							
On the successful completion of the course, student will be able to:							
1	Produce appropriate graphical and numerical descriptive statistics for different types of data.						K1
2	Apply statistical concepts to analyze the business problems.						K2
3	Explain the concepts of average and range of data collection.						K2
4	Examine the relationship between the variations.						K4
5	Outline the preparation of graph and table.						K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create							

UNIT –I		Hours - 12
Introduction of Business Statistics-Functions, Scope, Importance and Limitations of Statistics-Meaning of Data and information - Classification and Collection of Primary and Secondary Data-Preparing Primary data collection tools- Sampling & Sampling techniques.		
UNIT – II		Hours - 12
Presentation of Data – Formation of Frequency distribution table – Classification and Tabulation-Diagrammatic (1D, 2D) and graphical presentation- Graphs of Frequency Distribution –frequency curves – Ogive curve.		
UNIT – III		Hours - 12
Measures of Central tendency – Different methods of calculation of Mean, Median, Mode, Geometric Mean and Harmonic Mean – Empirical Relation.		
UNIT - IV		Hours - 12
Measures of Dispersion - Different methods of calculation of Range, Quartile deviation, Mean Deviation, Standard deviation (Grouped and Ungrouped data) , Coefficient of Variation – Relationship between measures of variation, Correcting incorrect values of standard deviation, Lorenz curve.		
UNIT - V		Hours - 12
Skewness – Meaning – Measures of skewness- Pearson’s and Bowley’s coefficient of skewness Correlation- Meaning and Definition- scatter diagram, Karl Pearson’s coefficient of correlation, Spearman’s Rank correlation, and Methods of Least squares.		

Reference Books	
1	S.P. Gupta and M.P. Gupta, Business Statistics– Sultan Chand & Sons Educational Publishers – New Delhi., 18th Edition -2014□
2	Medhi. J ., Statistical Methods: An introductory text. New Age, 1992.□
3	J.K. Sharma, Business Statistics, Pearson Education India, 2007.□
4	KVK Sharma, Statistics Made Simple: Do it Yourself on PC- PHI Publication□
5	Gupta, S.C, and V.K. Kapoor, Fundamentals of Mathematical Statistics- Cultan Chand & Sons – New Delhi. 2001
6	Mood A.M. Graybill F.A and Boes D.C, Introduction to the Theory of Statistics, Mcgraw Hill.
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Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
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Course Designed By:	

COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	M
CO3	S	S	S	M	S
CO3	S	M	S	S	S
CO4	S	S	S	M	S
CO5	S	M	S	S	S