

Course code	TITLE OF THE COURSE			L	T	P	C
ALLIED II	BUSINESS STATISTICS			4			4
Pre-requisite	ALLIED II: BUSINESS STATISTICS			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	Examine the Correlation and Regression.						K2
K1 - Remember; K2 - Understand; K3 - Apply; K4 - Analyze; K5 - Evaluate; K6 - Create							

UNIT –I		Hours – 12
Population and Samples - Definition of Statistics, scope of statistics in Industry, Economics, Management Sciences and Social Sciences, Population, Sample SRSWR, SRSWOR, Stratified Sampling (description of Sampling Procedures only)		
UNIT – II		Hours – 12
Data Concession and Representation of Raw data, Attributes, Variables, Classification, Frequency curve and Ogive curves, Diagrams - Bar and Sub divided diagram, Pie chart.		
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 - Absolute and 10 relative measures of dispersion, Range, Coeff. Of range Variance, S. D., Combined SD for two groups only, C. V.		
UNIT - V		Hours - 12
Correlation and Regression - Correlation, types of correlation, Scatter diagram, Corr. Coefficient, regression, lines of regression (Statements only)		

Reference Books	
1	Statistical Methods - S. P. Gupta
2	Fundamentals of Statistics - S. C. Gupta and V. K. Kapoor.
3	Statistics (Theory Methods and Applications) - Sancheti and Kapoor.
4	Quantitative Techniques in Business - Dr. A. B. Rao
Related Online Contents [MOOC, SWAYAM, NPTEL, Websites etc.]	
1	
2	
4	
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