

BA II Year	BEC-S401: Data Analysis		Semester 4
Marks Allotted for Internal Assessment	Marks Allotted for End Semester Examination (ESE)	Maximum Marks	Total Credits
30	70	100	4
Learning Outcomes: Student will be able to <ul style="list-style-type: none"> • Demonstrate the role of quantitative techniques in the field of business/industry. • Classify data on the basis of its source and nature. • Apply concepts that identify relationships between two or more variables. • Interpret the meaning of various population parameters • Understand the nature and purpose of index numbers 			
Unit 1	SOURCES OF DATA: Population census versus sample surveys. Sampling methods.		
Unit 2	UNIVARIATE FREQUENCY DISTRIBUTIONS: Measures of central tendency: Mean median and mode; arithmetic, geometric and harmonic mean. Measures of dispersion, skewness and kurtosis.		
Unit 3	BIVARIATE FREQUENCY DISTRIBUTIONS: Correlation and regression. Rank correlation.		
Unit 4	ESTIMATION OF POPULATION PARAMETERS FROM SAMPLE DATA: Unbiased estimators for population mean and variance.		
Unit 5	BASICS OF INDEX NUMBERS: Introduction to index numbers, price and quantity index numbers.		
Suggested Readings: <ul style="list-style-type: none"> • P.H. Karmel and M. Polasek (1978), Applied Statistics for Economists, 4th edition, Pitman. • M.R. Spiegel (2003), Theory and Problems of Probability and Statistics (Schaum Series). 			

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