

BUSINESS STATISTICS - II B.COM. TT
LESSON PLAN (Module wise)

LECTURE HOURS: 60

UNIT/ SESSION/ HOURS (TIME REQUIRED)	TOPICS FOR STUDENT PREPARATION (INPUT)	PROCEDURE (PROCESS)	LEARNING OUTCOME (OUTPUT)	ASSESSMENT
Module - 1 : Introduction 6hrs.	Importance, scope, limitation and distrust of Statistics, classification of data and tabulation (simple problems)	Explain with illustrations	Students should be able to understand the basic nature and purpose of statistics and its basics	Evaluation through Assignment/Project/test
Module-2: Measures of Central Tendency and Dispersion 20 hrs	Mean, Median, Mode, Quartile Deviation, Standard Deviation and Coefficient of Variation	Explain with illustrations and problems	To be able to work out simple problems in these topics	Evaluation through Assignment/Project/test
Module-3: Correlation and Regression 1 5 hrs	Scatter Diagram, Karl Pearson and Spearman's Correlation Coefficient, Regression, Properties of Regression Coefficient, Coefficient of Determination	Explain with illustration problems	To be able to work out problems in these topics	Evaluation through Assignment/Project/test
Module-4: Index Numbers 6 hrs	Fisher Price Index, Consumer Price Index and its special uses	Explain with illustrations and problems	To be able to work out problems in these topics	Evaluation through Assignment/Project/test
Module-5: Time Series and Components of Time Series 7 Hours	Trend Analysis by Moving Averages and Least Squares Method (linear)	Explain with illustrations and problems	To be able to work out problems in these topics	Evaluation through Assignment/Project/test
Module-6: Diagrammatic and Graphical Representation of Data 6Hours	Diagrams: Utilities, Limitations, Construction of One Dimensional and Two Dimensional and Three Dimensional Diagrams Graphs: Utilities, Limitations, Constitution, Frequency Distribution, Histogram, Frequency Polygon, Frequency Curve and Ogives	Explain using Excel	To be able to draw and interpret diagrams and graphs	Evaluation through Assignment/Project/test

LESSON PLAN (Topic wise)

LECTURE HOURS: 60

Sl. No	Topics	No. of Lecture Hours	Methodology/ Instructional techniques	Evaluation/ learning confirmation
MODULE 1	Introduction	6		Assignment/Project/Test
1.	Discussion of Syllabus, Assignment and Project Topics	1	Discussion	
1.	Importance, scope, limitation and distrust of Statistics,	2	Lecture and Discussion	
2.	classification of data and tabulation (simple problems)	3	Lecture and Discussion	
MODULE 6	Diagrammatic and Graphical Representation of Data	6		Assignment/Project/Test
1.	Diagrams: Utilities, Limitations, Construction of One Dimensional and Two Dimensional and Three Dimensional Diagrams	2	Illustrations	
2.	Graphs: Utilities, Limitations, Constitution, Frequency Distribution, Histogram, Frequency Polygon, Frequency Curve and Ogives	4	Illustrations	
MODULE 2	Measures of Central Tendency and Dispersion	20		Assignment/Project/Test
1.	Mean	4	Lecture and Work out Problems	
2.	Median	4	Lecture and Work out Problems	
3.	Mode	3	Lecture and Work out Problems	
4.	Quartile Deviation	3	Lecture and Work out Problems	
5.	Standard Deviation and Coefficient of Variation	4	Lecture and Work out Problems	
6.	Assignment/Project submission and Viva – I Unit Test	2	Activity	
Mid Semester Test – Modules 1, 6 & 2				
MODULE 3	Correlation and Regression	15		Assignment/Project/Test
1.	Scatter Diagram	2	Lecture and Discussion	
2.	Karl Pearson Correlation Coefficient	4	Lecture and Work out Problems	
3.	Spearman's Correlation Coefficient	3	Lecture and Work out Problems	

4.	Regression and Properties of Regression Coefficient	4	Lecture and Work out Problems	
5.	Coefficient of Determination	1	Lecture and Work out Problems	
6.	II Unit Test	1	Test	
MODULE 4	Index Numbers	6		Assignment/Project/Test
1.	Fisher Price Index	3	Lecture and Work out Problems	
2.	Consumer Price Index and its special uses	3	Lecture and Work out Problems	
MODULE 5	Time Series and Components of Time Series	7	Explain with illustrations and problems	Assignment/Project/Test
1.	Trend Analysis by Moving Averages and	3		
2.	Least Squares Method (linear)	4		

Assignment Topics

1. Modules 1 & 2 – Theory only
2. Modules 3, 4 & 5 – Theory only

Project Topics

1. Select a topic, collect data using a questionnaire and represent it in diagrams & graphs
2. Select a topic, collect secondary data, compare using correlation
3. Select a topic, collect secondary data and apply Time Series Analysis
4. Select a topic, collect secondary data and construct Index Numbers

Books for Reference

1. C.B. Gupta, Statistics
2. Chikkodi & B.G. Satya Prasad, Business Statistics
3. S.P. Gupta, Statistical Methods
4. Dr. B.N. Gupta, Statistics
5. Dr. Asthana, Elements of Statistics
6. Dr. Sancheti & Kapoor, Statistics Theory, Methods and Application
