LESSON PLAN (Business Statistics)

LESSON PLAN FRAMEWORK (module wise) (I B.COM TT)

Unit/ Session/ Hours (Time Required)	Topics For Student Preparation (Input)	Procedure (Process)	Learning Outcome (Output)	Assessment
Unit I 5hours	Meaning and Definition Importance of statistics , functions, Distrusts of Statistics Classification and Tabulation of data	• Lecture • Sums	**Conceptual & Skills**: Usage of tables and grouping.	Assignment and practical
Unit II 15 hours	Different type Measures Mean, median, mode, SD and variance	• Working out of sums • Activity (Using Excel)	**Conceptual & Skills**: Measure of tendency and dispersion	Assignment, practical and test
Unit III 12 hours	Correlation and Regression Scatter diagram, Karl Pearson's and Spearman's Correlation of coefficient. Regression, properties of regression coefficient, coefficient of determination.	• Working out of sums • Activity (Using Excel)	**Conceptual & Skills**: Importance of correlation and regression	Assignment, practical and test
Unit IV 6 hours	Index Numbers Fisher Price Index Numbers Consumer Price Index Nmbers	• Working out of sums	**Conceptual & Skills**:	Assignment, practical and test

Unit V **7 hours**	Time Series Trend Analysis by Least square method and Moving Averages	• Working out of sums • Activity (Using Excel)	**Conceptual & Skills**: Time series	Assignment, practical and test
Unit VI **15 hours**	Statistical Applications in Excel Basic Excel Function VLookup, Pivot Table, Charts-Line chart,bar chart, Pie chart, Histogram, Descriptive statistics, correlation and Regression	• Lecture • Activity (excel)	**Conceptual & Skills**: Different diagram and graphs	Assignment, practical and test

LESSON PLAN PREPARATION HOURLY WISE

Subject Name: Business Statistics (I .B.COM TT) Hours : 60

Objective: To enhance students to grasp the fundamentals of statistics for interpreting business data. To familiarize students with the concepts and techniques statistics using MS-Excel.

Sl. No	UNIT & OBJECTIVES	No. of Lecture Hours	Methodology/Instructional techniques	Evaluation/ learning confirmation
Module I	***Introduction***	***5+1***		
1.	Definition, meaning, Importance of statistics, scope, limitations and Distrusts of Statistics	1	Lecture	Discussion
2.	Meaning of classification, Different type of data sums on classification of data	1	Lecture and illustration	Discussion and Practical
3.	Sums on Classification of data	1	Lecture and illustration	Discussion and Practical
4.	formation of statistics series, tabulation and sums	1	Lecture and illustration	Discussion and Practical
5.	Sums on tabulation	1	Activity	Activity
Module II	***Measures of central tendency and dispersion***	**13+ 2**		

1.	Mean	1	Lecture and illustration	Discussion and Practical
2.	median	1	Lecture and illustration	Discussion and Practical
3.	mode	1	Lecture and illustration	Discussion and Practical
4.	geometrics mean	1	Lecture and illustration	Discussion and Practical
5.	Quartiles, Range	**2**	Lecture and illustration	Discussion and Practical
6.	quartile deviation	1	Lecture and illustration	Discussion and Practical
7.	mean deviation from mean	1	Lecture and illustration	Discussion and Practical
8.	median & mode	2	Lecture and illustration	Discussion and Practical
9.	standard deviation and coefficient of variation	3	Lecture and illustration	Discussion and Practical
Module III	Correlation and Regression Regression, properties of regression coefficient, coefficient of determination	***12***		
1.	Introduction – theoretical concepts of the module	**1**	Lecture and illustration	Discussion and Practical
2.	Scatter diagrams	1	Lecture and illustration	Discussion and Practical
3.	Sums on Karl Pearson's coefficient of correlation	3	Lecture and illustration	Discussion and Practical
4.	Sums on Spearman's Correlation of coefficient	3	Lecture and illustration	Discussion and Practical
5.	Regression, properties of regression coefficient, coefficient of determination	4	Lecture and illustration	Discussion and Practical
Module IV	Index Numbers	**6**		
1.	Introduction – theoretical concepts	**1**	Lecture and illustration	Discussion and Practical

2.	Fisher Price Index Numbers	3	Lecture and illustration	Discussion and Practical
3.	Consumer Price Index Numbers .	2	Lecture and illustration	Discussion and Practical
Module V	Time Series	7		
1.	Introduction	1	Lecture and illustration	Discussion and Practical
2.	Trend Analysis by Least square method	3	Lecture and illustration	Discussion and Practical
3.	Moving Averages	3	Lecture and illustration	Discussion and Practical
Module VI	Statistical Applications in Excel	15		
1.	Basic Excel Function	1	Lecture and illustration	Practical
2.	VLookup, Pivot Table, Charts	3	Lecture and illustration	Practical
3.	Line chart,bar chart, Pie chart, Histogram,	5	Lecture and illustration	Practical
	Descriptive statistics	3	Lecture and illustration	Practical
	correlation and Regression	3	Lecture and illustration	Practical

BOOKS FOR REFERENCE

1. C.B.Gupta: Statistics, Himalaya Publications.
2. Chikkodi & B.G.Satya Prasad: Business Statistics, Himalaya Publications.
3. Dr. Asthana: Elements of Statistics , Chaitanya
4. Dr. Sancheti & Kapoor : Statistics Theory , Methods and Application.

5. Ellahance : Statistical Methods

6. S.P.Gupta : Statistical Methods, Sultan Chand ,Delhi.

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