

LESSON PLAN

Name of the Assistant/ Associate Prof.:- Mrs. Pinky

Class and Section: B.com 4th SEM

Subject: Business Statistics

Session: 2021-2022

Week	Topics
1	Unit-1 Chapter-1(Index Numbers 1) Meaning and uses of Index Numbers Limitation of Index Numbers/and its Types
	Problems in the Construction of Index Numbers Methods of Constructing Index Numbers(simple Index Numbers Method)
	Construction of simple index Numbers on the Basis of Average price
	Numerical problems Solved Related to Simple Index Numbers
	Weighted Index Numbers(Weighted Aggregative Method)
	Weighted Average of price Relative Method When prices and weights of Different Commodities are given
2	Weighted Average of price Relative Method When group indices and weights are given
	Exercise Numerical Problems solved related to Weighted index Numbers
	Quantity Index Numbers(Simple quantity index Numbers)
	Quantity Index Numbers(Weighted Quantity Index Numbers)
	Value Index Numbers
	Exercise Numerical problems Taken from students
3	Test of Adequacy of Index Number Formulae Time Reversal test
	Test of Adequacy of Index Number Formulae Factor Reversal Test
	Test of Adequacy of Index Number Formulae Circular Test
	Important Typical Examples related to time, factor and circular Test
	Miscellaneous solved Examples
	Chapter 2-(Index Numbers 2) Chain Base Index Numbers
	Fixed Base Index
	Base Conversion (1) Conversion of Chain base in to Fixed base index (2)Conversion of Fixed base in to chain base
4	Base Shifting Splicing
	Deflating of index Numbers, purchasing power of money
	Consumer Price Index Important typical Examples Based on Family Budget Method

	Miscellaneous solved Examples of 2 nd chapter
	Unit-2 chapter 3-(Time Series Analysis 1) Meaning,utility,Components of Time series Analysis of Time series
	Methods of Measuring Trend (1)Freehand curve method (2)Semi Average Method
5	Methods of Measuring Trend (3) Moving Average Method(Odd Period Moving Average) (Even Period Moving Average)

	Use of Weights in the calculation of moving average
	period of moving Average
	Measurement of short term Fluctuations
	Methods of Measuring Trend (4) Least Square Method(Direct Method)
6	Methods of Measuring Trend (4) Least square method(Short cut method)
	Important Typical Examples
	To convert Annual Trend equation to Monthly/Quarterly Trend Equation Shifting the trend origin
	Fitting of second Degree parabolic Trend
	Fitting of Exponential Trend
7	Miscellaneous solved examples of Time series Analysis
	Chapter 4(Time Series Analysis-2) Measurement of Seasonal Variations (1) Method of simple Average
	(2) Method of moving Averages
	(3) Ratio to moving Average
	(4) Ratio to Trend Method
	(5) Link Relative Method
	4.2 Deseasonalisation of Data
	4.3 uses of Seasonal Indices
	Exercise problems taken from students Class test

Week	Topics
8	Unit-3 Chapter 5(Probability) Some basic concept of Probability
	Definition and importance of Probability
	Calculation of Probability of an event
	Use of combination in Theory of Probability
	Exercise problems taken
	Addition Theorem of probability
9	Multiplication Theorem of Probability
	Numerical problems solved on Addition and Multiplication Theorem
	conditional Probability
	Combined use of Addition and Multiplication Theorem
	Combined use of Addition and Multiplication Theorem
10	Use of Bernoulli's Theorem in Theory of probability
	Mathematical Expectation
	Exercise problems solved
	Test of 4 th chapter

11	Bayes' theorem
	Miscellaneous solved Examples of Probability
	Chapter 6-Probability Distribution Observed Frequency Distribution Theoretical Distribution
	Binomial Distribution Application of Binomial Distribution Formula
	Binomial Distribution To find n, p and q from mean and Standard Distribution

Week	Topics
12	Exercise problems of Binomial Distribution
	Binomial Distribution To find mean and Standard Distributions when n, p and q are given
	Binomial Distribution Fitting of Binomial Distribution
	Possion Distribution Possion Distribution as limiting form of Binomial Distribution
	Possion Distribution Definition, properties and its uses
	Possion Distribution Application of possion Distribution Formula
13	Possion Distribution Fitting of Possion Distribution
	Miscellaneous solved Examples
	Chapter 7-Normal Probability Distribution Definition, features, roles
	How to measure Area Under The Normal Curve
14	Application of Normal Distribution Finding areas when mean and standard deviation given
	Application of Normal Distribution Finding mean and standard deviation when the area is given
	Application of Normal Distribution Finding minimum and maximum Score amongst highest and lowest group
	Application of Normal Distribution Fitting of Normal curve
	Assignment/Presentation(topic According to the choice of students)