

UNIVERSITY OF MADRAS
B.Com. (GENERAL) DEGREE COURSE
SYLLABUS WITH EFFECT FROM 2020-2021

BGE-CSA3A

ALLIED-III(A): BUSINESS STATISTICS

Common to BCom(A&F), BCom(CS), BCom(BM), BCom(MM),
B.Com(Co-op), BCom(CA) & BCom(ISM)

Inst.Hrs : 6

Credits : 5

YEAR: II

SEMESTER: III

OBJECTIVES

To Facilitate Understanding Relevance and Need Of Statistics in Current Scenario

- To Customize the Importance of Business Statistics for the Commerce Students

UNIT-I Introduction

Meaning and Definition of Statistics- Collection and Tabulation of Statistical Data- Presentation of Statistical Data-Graphs and Diagrams

UNIT-II Measures of Central Tendency and Measures of Variation

Measures of Central Tendency- Arithmetic Mean, Median, Mode, Harmonic Mean and Geometric Mean. Measures of Variation- Standard Deviation -Mean Deviation- Quartile Deviation-Skeweness and Kurtosis- Lorenz Curve

UNIT-III Correlation and Regression Analysis

Simple Correlation-Scatter Diagram- Karl Pearson's Correlation- Spearman's Rank Correlation- Regression- Meaning-Linear Regression.

UNIT- IV Time Series

Analysis of Time Series-Causes of Variation in Time Series Data -Components of Time Series- Additive and Multiplicative Models- Determination of Trend By Semi Average, Moving Average and Least Square(Linear Second Degree And Exponential) Methods- Computation of Seasonal Indices By Simple Average, Ratio to Moving Average, Ratio to Trend and Link Relative Methods

UNIT-V Index Numbers

Meaning and Types of Index Numbers-Problems in Construction of Index Numbers- Methods of Construction of Price and Quantity Indices- Test of Adequacy- Errors in Index Numbers- Chain Base Index Numbers- Base Shifting -Splicing -Deflation -Customer Price Index and Its Uses- Statistical Quality Control

SUGGESTED READINGS

1. Dhingra IC & MP Gupta, Lectures In Business Statistics, Sultan chand and Sons, New Delhi 2009
2. Gupta SP and Archana Agarwal, Business Statistics (Statistical Methods) Sultan chand and Sons, New Delhi, 9th Edition 2013
3. Gupta SC, Fundamentals of Statistics, Himalaya Publishing House
4. Richard Levin and David Rubin, Statistics for Management, Prentice Hall Of India, New Delhi, 2011,7th Edition
5. Sharma J K, Fundamentals of Business Statistics, Second Edition, Vikas Publishing House Private Limited, 2013
6. Siegel, Andrew, Practical Business Statistics, Irwin Mcgraw Hill International Edition 4th
7. Rajagopalan SP and Sattanathan R B Business Statistics and Operations Research, Vijay Nicole Imprint Private Limited, Chennai