ST.JOSEPH'S COLLEGE FOR WOMEN (AUTONOMOUS) , VISAKHAPATNAM

II SEMESTER   B.COM (COMPUTERS)   TIME: 7Hrs/Week

COM 2201(4)   BUSINESS STATISTICS   Max. Marks : 100

w.e.f. 2017 – 2020 ('17AE') SYLLABUS

OBJECTIVES: To enable the students to –

1. acquire knowledge of business mathematics and statistics.

2. apply the principles of quantitative techniques in decision making.

3. apply information technology in Business World.

UNIT – I: Introduction To Statistics : meaning, definition, functions, Importance and limitations of statistics; collection of data primary and secondary data – schedule and questionnaire; Frequency distribution; Tabulation; Diagram and graphic presentation of data – Barcharts,- Histogram, circle or pie diagram.

UNIT – II: Measures of Central Tendency: Definition, objectives and characteristics of measures of central tendency. Types of averages – Arithmetic mean, Geometric mean, Harmonic mean, median, mode.

UNIT – III: Measure of Dispersion: Meaning, definitions, objectives of dispersions, Range, Quartile deviation; Mean deviation; standard deviation, coefficient of variation; Definition and objectives of skewness; Karl Pearson's coefficient of skewness. Bowley's coefficient skewness.

UNIT – IV: Correlation and Regression Analysis: meaning, definition and use of correlation ; Types of correlation ; Karl Pearson's correlation coefficient; spearman's Rank correlation and probable error, meaning and utility and Regression analysis comparison between correlation and Regression; Regression equations – Regression with only two variables.

UNIT–V: Measures of Index numbers: Meaning – Definition importance of index numbers – methods of construction of Index numbers – price Index number – Quantityindex number – value Index numbers – tests of consistency of Index numbers – 1. Time Reversal Test 2. Factor Reversal Test 3. Limitations of Index numbers.

REFERENCES:

1. Fundamentals of Statistics – D.N.Elhance, Veena Elhance – Kitab Mahal B.M.Agrawal Agency (2001)

2. Quantitative Techniques – S.P.Jain, K.L.Narang – Kalyani Publisher (2001)

3. Statistical Methods – S.P. Gupta – Vikas Publishing House, Delhi (1999)

4. Statistics (Problems and Solutions) – V.K. Kapoor – Himalaya Publisher (2000)

5. Business Statistics – Dr.C.Satya Devi – Sultanchand (2009)

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