Course: VEC Practical on Descriptive Statistics

Semester: I Credits: 2 Subject Code:BSVECPDS2301 Lectures: 60

Course Outcomes:

At the end of the course the learner will be able to:

- CO1 Tabulate and make frequency distribution of the given data using various graphical and diagrammatic techniques
- CO2 To compute various measures of central tendency, dispersion.
- CO3 To calculate and interpret measures of skewness and kurtosis.
- CO4 Analyze the relationship between two variables using scatter plot. Compute and interpret coefficient of correlation.

Unit 1: Summary Statistics I Tabulation and construction of frequency distribution. (Use of at least two data sets more than 50 observations- each for constructing frequency distribution) Diagrammatic and graphical representation using EXCEL and data interpretation. (problems on the basis of SET and NET examination in Paper I to be taken) Summary statistics for ungrouped data (Problems based on central tendency) (Also using EXCEL) Summary statistics for ungrouped data (Problems based on dispersion) (Also using EXCEL) Summary statistics for grouped frequency distribution. (Problems based on central tendency) (Also using EXCEL) Summary statistics for grouped frequency distribution. (Problems based on dispersion) (Also using EXCEL)

Unit 2: Summary Statistics II Summary statistics (Problem solving using moments up to order four). (Also using EXCEL) Summary statistics (Problem solving using skewness) (Also using EXCEL) Summary statistics (Problem solving using kurtosis). (Also using EXCEL) To draw a scatter plot using MS-EXCEL spreadsheet. To find correlation coefficient and interpret the results (Also using EXCEL) Assignments based on measures of central, dispersion and moments. Assignments based on measures of skewness, kurtosis and correlation.



Recommended Text Books:

- Gupta S. C. and Kapoor V. K. 1987, Fundamentals of Applied Statistics (3rd Edition) S. Chand and Sons, New Delhi.
- Sarma K.V.S. 2001 Statistics Made Simple. Do it Yourself on P.C. Prentice Hall

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Reference Books:

- Agarwal B. L., Programmed Statistics, New Age International Publishers.
- Freund J.E., Modern Elementary Statistics, Pearson Publication, 2005.
- George W. Snedecor, William G, Cochran, Statistical Methods, John Wiley & sons.
- Gupta and Kapoor, Fundamentals of Applied Statistics(3rd Edition), S. Chand And Sons, New Delhi, 1987...
- Kennedy and Gentle, An Introductory Statistics.
- Mukhopadhyay P. Mathematical Statistics (3rd Edition), Books And Allied (P), Ltd 2015.

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