

## **SKILL ENHANCEMENT COURSE STRUCTURE FOR 4<sup>th</sup> SEMESTER**

### **Statistical Methods-II**

#### Unit-I

Computational techniques based on the measures of Skewness, Kurtosis including those based on quartiles.

#### Unit-II

Computation of central and raw moments using data sets.

Relationship between central moments in terms of raw moments and vice-versa with the help of data sets.

#### Unit-III

Computational technique for depicting relationship between variables using correlation and rank correlation on different data sets using scatter diagram , Karl Pearson and Spearman methods.

#### Unit-IV

Prediction of dependent variable by use of value of independent variable with the help of regression technique using different data sets. Fitting of first-degree polynomial and parabola by the principle of least squares using different data sets.

### **REFERENCES**

1. Bhat B.R, Srivenkatramana T and Rao Madhava K.S (1997): Statistics: A Beginner's Text, Vol 1., New Age International (P) Ltd.
2. Croxton F. E, Cowden D.J and Kelin S (1973): Applied General Statistic, Prentice Hall of India.
3. Spiegel, M.R. (1967): Theory & Problems of Statistics, Schaum's Publishing Series.
4. S.C Gupta and V.K Kapoor (2007): Fundamentals of Mathematical Statistics. 11<sup>th</sup> edition (reprint) Sultan Chand and sons.
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