B. Com. II: Semester IV
Application of Industrial Statistics Paper II
Elective Component
Computer Code: 475247
Marks: 100

Objectives: 1. To make the students to get acquainted with the basic statistical analytical Skills.

2. To make students to get acquainted about Statistical tools and techniques to be used for managerial decisions.

Unit	Contents	Weightage	No of Hours
1	**Sampling:** Sampling Concepts, Sampling Distributions and Estimation: Populations and samples, Parameters and Statistics, Descriptive and inferential statistics. Sampling methods including Simple Random sampling, Stratified sampling, Systematic sampling, Judgement sampling and Convenience sampling. Concept of Sampling distributions	16	10
2	**Hypothesis Testing and Estimation:** Tests concerning means and proportions (one and two samples; t test, f test, ANOVA (one way and two way), and Chi-square test	50	30
3	**SQC Theory and Techniques:** Control Charts Acceptance Sampling Industrial Experimentation Management and Organisation of Quality Control Using Excel to plot control charts	34	20

Internal Assessment : 25 marks

Semester Exam : 75 marks

Suggested Readings:

1. Gupta, S.P., and Archana Gupta, Statistical Methods, Sultan Chand and Sons, New Delhi.
2. Gupta, S.C. Fundamentals of Statistics. Himalaya Publishing House.
3. Anderson Sweeney and William, Statistics for Students of Economics and Business, Cengage Learning.
4. Thukral J. K., Business Statistics.

5. Levin, Richard, David S. Rubin, Rastogi, and Siddiqui. Statistics for Management.
7th Edition. Pearson Education.
6. Berenson and Levine. Basic Business Statistics: Concepts and Applications.
Pearson Education.
7. Siegel Andrew F. Practical Business Statistics. McGraw Hill.
8. Vohra N. D., Business Statistics, McGraw Hill.
9. Spiegel M.D. Theory and Problems of Statistics. Schaum's Outlines Series. McGraw Hill
Publishing Co.