

Veer Narmad South Gujarat University

Quantitative Methods-IV

S.Y. B.B.A., Semester IV

Effective from December 2012

OBJECTIVES:

1. The course is designed to impart the basic knowledge of statistics, to acquaint the students with the practical utility of the subject with special reference to business and commerce and equip them with those statistical tools and techniques which shall provide them the necessary background for the applications of these techniques in different areas of management.

PEDAGOGIC TOOLS:

Lectures, Practical examples from business world, assignments & presentations.

COURSE CONTENT: - Topics with Weightage

1. Testing of Hypothesis (60%)

- Large sample test: for one sample and two samples
(About the parameters mean, standard deviation, proportion)
- Small sample test: for one sample and two samples-(t-test, F-test, χ^2 -test, Z-test)
(About the parameters mean, standard deviation, correlation coefficient)
- ANOVA

2. Sampling Methods (15%)

- Definition and methods of Simple random sampling with and without replacement
- Examples on Simple random sampling
- Definition and explanation of Stratified sampling
- Examples on Stratified sampling

3. Statistical Quality Control (20%)

- General Theory
- X-R Chart (for quantitative data)
- p-np Chart (for defective articles in a lot with same sample size)
- C-Chart (for number of defects)

3. Decision Theory (5%)

- Introduction of Basic Theory

Reference Books:

1. Fundamentals of statistics : S.C. Gupta
2. Statistics for management : Richard I. Levin and David S. Rubin
3. Complete Business Statistics : Amir D. Aczel and Jayavel Sounderpandian
4. Statistics for Management : Anand Sharma
5. Statistics for Business and Economics : R P Hooda