

VEER NARMAD SOUTH GUJARAT UNIVERSITY

University Campus, Udhna-Magdalla Road,
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M.Com. (Part- II) Statistics

Advanced Statistics Paper – IV (External Programme)

Effect from 2015- 16

(1) Design of Experiments:

Basic principles of Design of Experiments, Efficiency of a design, Basic designs: CRD, RBD and Latin Square designs and their applications, Factorial experiments, its analysis, concept of confounding in 2^2 and 2^3 factorial experiments with analysis. (50%)

(2) Sampling Techniques:

Sample surveys, Principal steps involved in sample survey, some specific sampling designs: simple random sampling, sampling for proportions and percentages, estimation of sample size, stratified random sampling, systematic sampling, two stage sampling. Use of auxiliary information at estimation stage, Ratio, product, difference and regression estimators, two – phase sampling and it's uses in ratio and regression estimation. (50%)

BOOKS :

- (1) Federer, W.T. (1955): Experimental Designs - Theory and Applications, Oxford & TBH Pub.
- (2) Shah, S. M. (1976): Nidarshan Padhdhatio ane Prayogik Abhikalpanao (in Gujarati); University Granth Nirman Board, Ahmedabad.
- (3) Montgomery, D.C.(1991) : Design and Analysis of Experiments; John Wiley.
- (4) Cochran, W.G. (1984): Sampling Techniques, Wiley Eastern.
- (5) Mukhopadhyay, P. (1979): Applied Statistics, Books & Allied Pub., Kolkata.