

SRI KRISHNADEVARAYA UNIVERSITY :: ANANTAPUR
DEPT. OF ECONOMICS & APPLIED ECONOMICS
Syllabus for M.Phil./Ph.D. Written Examinations
Paper - I : Research Methodology

SECTION - I

1. SCIENTIFIC RESEARCH : Evolution, Characteristics, Procedures, Scope and limitations of Scientific Research.
2. SOCIAL SCIENCE RESEARCH : Need for research, Objectives, Demand and Utility of Social Science Research, Distinction between Social survey and Social Research.
3. APPROACHES TO RESEARCH : Historical, Descriptive, Experimental, Statistical and Case Study approaches to research.
4. SAMPLE DESIGNS: Probability and Non-Probability sample designs for Social Science Research.
5. DATA ANALYSIS AND REPORT WRITING : Sources and Methods of data Collection, Tabulation and presentation of data, and report writing.

SECTION - II

6. REGRESSION ANALYSIS : Bivariate regression and regression lines. Multiple regression – The matrix method.
7. THE THEORETICAL DISTRIBUTIONS : Binominal, Normal, student 't', Chi-square and 'F' distributions.
8. HYPOTHESIS TESTING : Formulation of a hypothesis, Test procedure, Level of significance, types of errors, Standard error and Estimation of Mean.
9. TESTS OF SIGNIFICANCE : Difference between two means – 'Z' Test and 't' test. Goodness of fit test – χ^2 test.
10. ANALYSIS OF VARIANCE : Ratio of variances, ANOVA table and analysis of variance test.

Text books

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| 1. P.V. Young | : "Scientific Social Surveys and Research" |
| 2. M.H. Gopal | : "An introduction to Research procedure in social Science" |
| 3. Cardoso Francesco et.al | : "Research and Report writing" |
| 4. Campbel W.G. | : "Form and Style in thesis writing" |
| 5. S.R. Bajpai | : "Methods of Social Survey and Research" |
| 6. John E. freund | : "Modern Elementary Statistics" |
| 7. Taro Yamane | : "Statistics – An introductory analysis" |
| 8. Simpson & Hafka | : "Basic Statistics" |
| 9. S.P. Gupta | : "Statistical methods" |

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