

PhD Course Work Syllabus (Economics) 2013

1. Research Methodology (5 Credits)

Objective: This paper is helpful to develop the research problem, its analytical tools and techniques to test the hypothesis and analyze the problem.

1. Meaning of research in Economics: Types of Research (descriptive vs. analytical, fundamental vs. applied, qualitative vs. quantitative, conceptual vs. empirical, empirical vs. simulation based, conclusion oriented vs. decision oriented, historical vs. a-historical etc.).
2. Research Methodology, methods and Techniques- differences among them, the logical framework of investigation, the nature of problem and appropriate methodology, macro-level vs. micro-level research, problems in aggregation, methodology leading to methods and then techniques, analysis of historical records, participant or non-participant observation, mass observation, questionnaires, personal interviews, group interviews, case studies, small group study.
3. Formulation of research problem- identification and operationalization of the problem, development of working hypothesis, preparation of research design, investigation in availability of information, sampling design, error minimization, evaluation of time and cost, Measurement scales, collection of information.
4. Review of statistical tools/methods for social research – for univariate and bivariate analysis. F- Test, ANOVA-one way and two way. Significance of correlation coefficient, significance of regression coefficient
5. Simple Concept of Probability and Theoretical Frequency Distribution, (Binomial, Normal & Poisson)
6. Formulation of Hypothesis- criteria of a good hypothesis, types of research hypothesis, advantages of Hypothesis. Hypothesis Testing Procedure, Type I and II Error, Concept of Significance. One sample parametric tests, two sample parametric tests- Test of significance for large and small samples – Student's –'t' test and Z-test, tests for Mean and difference between means and difference between proportions.
7. Non Parametric tests- Chi-square test- χ^2 , Mann-Whitney Test:U, Wilcoxon Signed Rank Test:T.
8. Processing of collected information, interpretation and generalization, systematization of findings, writing of report, references and bibliography.

Reading List

P.C.Tripathi: A Textbook of Research Methodology in Social Sciences, Sultan Chand & Sons
Goodle William J. Hatt Paul K.: Methods in Social Research, McGraw-Hill Book Company.
Bhattacharyya D.K. Research Methods, Excel Books
Scotter A Miller 2007 Developmental Research Methods, Sage Publication.

2. Computer Application (3 credits)

Objective: The candidate should gain sufficient practical knowledge for use of computer and computer software for use in research work.

Hence assessment of this subject would be on a continuous basis, practical application of the subject would be assessed at three stages. (20+20+60)

Basic knowledge of application software's in MS- Office with focus on

1. MS-Word- its features and applications related to presentation of text in decent format and saving the same for further use. The practical knowledge of this software should enable the candidate to type and prepare the thesis in a presentable format.
2. MS-Excel- construction of worksheet and inserting data according to its characteristics, use of statistical tools and their presentation in the form of charts and graphs.
3. MS- Power point – create power point presentation on a topic related to the theme of thesis and use of different presentation techniques.
4. Use of SPSS – method of preparing data sheet and entering data according to its characteristics , use of various statistical tools on SPSS.
5. Use of Internet for research work and exploring various websites and search engines for collecting quality literature review and secondary data etc. related to thesis work.

3. Review of Literature (3 credits)

Students would be given topics to search for literature review. The candidate will be required to submit the report on the review of literature topic given by the department. This will be done under the supervision of same teacher or the guide of the student.