

M. PHIL AND PH.D COURSE WORK

Compulsory Paper

COMMON SYLLABUS FOR SOCIAL SCIENCES (ECONOMICS, SOCIOLOGY, POLITICAL SCIENCE, HISTORY, JOURNALISM, MASS COMMUNICATION), COMMERCE AND MANAGEMENT, EDUCATION, LAW, AND WOMEN STUDIES Year of Implementation: from June, 2011

Paper –I (Compulsory)

Research Methodology, Quantitative Techniques, and Computer Application

Preamble:

Research at M.Phil. / Ph.D course is essential for the subjects (i.e. History, Economics Commerce, Women studies and Journalism etc.). It finds selection to the problems in the field as well as equip the students with research theory and skills for conduct of research at doctoral, post doctoral levels and undertake need based research projects and for the development of the society as a whole. The transaction tools like; discussion, group work, seminar, use of web resources, library resources can be used for teaching the paper.

The course work of this paper will be taught in total 60 contact hours/days. Each unit will be taught in 15 contact hours/days. The contact hours allotted to each unit are adjustable to the total contact hours.

The course work for M.Phil./Ph.D is categorized into four components;

- (a) Research Methodology with 30 marks' weightage
- (b) Quantitative Techniques with 30 marks' weightage and
- (c) Computer Application with 20 marks' weightage
- (d) Practical on QTs and Software application with 20 marks' weightage.

(Important Note: Teaching can be shared by couple of Departments; means the Department, which is unable to teach this paper, can send their students to other Departments with request to a particular Department and a copy sent to the University office. While doing so the number of students in the combine class should not go more than 50.)

Unit- 1: Fundamentals of research

- (a) Basic principles of research
- (b) Theory building, facts, concepts, constructs and definitions
- (c) Valuable and its attributes

- (d) Ethics in research
- (e) Preparation of proposal
- (f) Review of literature, formation and types of hypothesis and testing of the hypothesis
- (g) Research designs, sampling designs, methods, techniques and tools of research
- (h) Creativity, innovation, originality and advancement of knowledge and application to the society

Unit- 2 Communication and evaluation of research

- (a) Report writing and the writing of research papers
- (b) Presentation of research proposals
- (c) Evaluation of research report
- (d) Presentation of research : Oral and Written (abstracts/synopsis)

Unit- 3 Quantitative Method

- (a) Use of quantitative method in research
- (b) Types and sources of data
- (c) Data analysis for specific type of data
- (d) Tabulation and graphical representation
- (e) Central tendency
- (f) Dispersion
- (g) Correlation
- (h) Regression
- (i) Use of chi square
- (j) Steps involved in applying chi—square test
- (k) Non parametric or free distribution tests
- (l) Testing of hypothesis for non parametric data

Unit- 4 Computer application for research

- (a) Word processing
- (b) Data processing
- (c) Graphical processing
- (d) Use of web-2 tools for research
- (e) Use of excel
- (f) Use of SPSS
- (g) Use of graphical software
- (h) Use of multimedia tools

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