



UTKAL UNIVERSITY

**P.G. DEPARTMENT OF PUBLIC ADMINISTRATION
PH.D COURSE WORK**

**Paper –I
Research Methodology**

100 marks

Objectives:

This paper makes the student familiar with basic of research and research process, types and methods. Student will be able to develop a theoretical knowledge on formulating research questions, hypothesis and its application in conducting research work. This paper is also enable student to know about various methods of data collection and report writing skills in research work.

Unit-I: Research Fundamentals: Research: Meaning, Objectives and features, types of research studies, scientific and Non- scientific Research Methods

Unit-II: Research problem, Hypothesis: Nature, types, role and validity, Development of research plan.

Unit-III: Research Design: meaning and types, sampling: meaning and types.

Unit- IV: Data collection: primary and secondary, methods and techniques, Survey method, Questionnaire and schedule, case study method

Unit-V: Research report witting style: Report Writing – Chicago and MLA style

Outcomes: Student would be able to know the application of research methodology and concepts in social science research. Student will be able to identify appropriate research topics, research problem and can formulate a good research design. Finally student can learn technology usages in research work.

(Note) Examination shall be Unit wise covering 20 marks each, of which qualifying mark is 10. If a candidate fails to get 10 in each Unit, s/he can repeat the same twice during course work period.

Essential Readings:

1. Garg, B.L., Karadia, R., Agarwal, F. and Agarwal, U.K., 2002. An introduction to Research Methodology, RBSA Publishers.
2. Kothari, C.R., 1990. Research Methodology: Methods and Techniques. New Age International. 418p.
3. Sinha, S.C. and Dhiman, A.K., 2002. Research Methodology, Ess Ess Publications. 2 volumes.
4. Trochim, W.M.K., 2005. Research Methods: the concise knowledge base, Atomic Dog Publishing. 270p.

Paper-II
Research techniques and computer Aided Analysis **100 marks**

Objectives: This paper aims to provide an understanding on advance research techniques and computational skills through various statistical techniques and different mathematical tools for research data analysis.

Unit-I: measurement and scales: type of scales, frequency distribution, measurement of central tendency, dispersion.

Unit-II: statistical analysis and data interpretation- testing of hypothesis – T test, Z Test, Chi-square test, probability and normal distribution.

Unit- III- co-relation and regression analysis ANOVA

Unit- IV- Factor analysis: Co- efficient of determination.

Unit- V – Computer added data analysis – M.S. Excel/ SPSS.

Outcomes: After the completion of this paper student would be able to identify appropriate statistical techniques and mathematical tools towards the data analysis of their research topic.

(Note) Examination shall be Unit wise covering 20 marks each, of which qualifying mark is 10. If a candidate fails to get 10 in each Unit, s/he can repeat the same twice during course work period.

Paper- III
Review of Literature

100 marks

Objectives: This paper will help to increase research writing skill of student in picking out useful pieces of information from a longer text and student can enhance own critical evaluation and discussion on a topic.

Unit- I: Preparation of review of literature on the project 50 Marks.
(Qualifying Mark is 25)

Unit-II: Preparation of review of literature before SRC or DRC 50 Marks.
(Qualifying Mark is 25)

Outcomes: Student would be skilled in conducting relevant review of literature to keep in view the specific research question.

Paper- IV
Seminar Presentation

100 marks

Objectives: This paper will enable students to enhance their presentation skills, critical thinking, evaluation and discussion on a topic.

Unit- I One seminar presentation on the aspect of project 50 Marks
Unit- II One seminar presentation on the aspect of project 50 Marks
(Qualifying mark is 25 in each part)

Outcomes: The students would be able to develop their confidence to discuss on a relevant topic.
