

Syllabus for Course on: **Research Methodology – II-Quantitative**

M. Phil : I Semester
Course number: Core Course
December
Credits: 4
Course Instructor :

Duration : **July -**

Course rationale and content: This course aims at preparing students to conduct research in political science in the quantitative tradition. It acquaints them with their strengths as well as limitations. Students will be imparted basic skills to go about doing a research project, including sampling, collecting data, and to process and analyze it, using statistics. By the end of the course the students will learn how to formulate a researchable question relating to their research topic, think of a research design suitable for their research, and to collect and analyze information leading to meaningful and defensible conclusions.

- Unit 1: Introduction: Empirical Research in quantitative tradition; Evolution of Political Science as a discipline
Unit 2: Building blocks of social research: Concepts, hypotheses and variables
Developing a research question; Working with literature; Research design
Unit 3: Sampling; Survey research: Questionnaire and Interviewing
Unit 4: Quantitative data analysis: Descriptive statistics; Measures of Central Tendency; Measures of dispersion; Frequency Tables; Cross-Tables; Graphical Representation of Data
Unit 5: Relationships between variables: correlation; Regression analysis
Unit 6: Inferential Statistics: Chi Square Tests; Tests of means and proportions; Principal Component Analysis

Textbooks:

1. Janet Buttolph Johnson, H.T. Reynolds, and Jason D. Mycoff, *Political Science Research Methods*, CQ Press: Washington DC, 2008.
2. Peter Burnham, Karin Gilland Lutz, Wyn Grant and Zig Layton-Henry, *Research Methods in Politics (Second edition)*, Palgrave Macmillan: New York, 2008.
3. Zina O’Leary, *The Essential Guide to Doing Your Research Project*, Sage Publications: New Delhi, 2010.
4. Michael S. Lewis-Beck, *Data Analysis: An Introduction*(Sage University Paper series on Quantitative Applications in the Social Sciences), Sage Publications: Thousand Oaks, CA, 1995.
5. David E. McNabb, *Research Methods for Political Science: Quantitative and Qualitative Methods*, PHI Learning Pvt. Ltd: New Delhi, 2009.
6. Antonius, Rachad. 2003. *Interpreting quantitative data with SPSS*. London: Sage Publications.

Internet Sources:

<http://psrm.cqpress.com>
<http://www.socialresearchmethods.net>