

Raja Mahendra Pratap Singh University, Aligarh



Syllabus

Pre – Ph. D. Course Work

Political Science

(For Both University Campus and Affiliated Colleges of University)

(As Per Guidelines of University Grants Commission)

(w.e.f. the session 2023-24)

Raja Mahendra Pratap Singh University, Aligarh

Ph.D. Course Work Syllabus

Paper – I: Research and Publication Ethics (RPE)

Credits: 2 Total Units: 4

Marks: 50

Course Type: Compulsory for all Ph.D. Scholars

Course Objectives

- To introduce research scholars to ethical principles in academic research.
- To develop awareness regarding publication ethics and research misconduct.
- To provide knowledge about plagiarism detection tools and citation practices.
- To familiarize scholars with quality research publications and indexing databases.

Unit I: Philosophy and Ethics of Research

- Meaning, objectives and significance of research
- Ethics in scientific research
- Moral philosophy: ethical theories and principles, values in research
- Scientific conduct: honesty, integrity, objectivity and transparency
- Ethical Issues in research involving human participants, animals and environment

Unit II: Research Misconduct and Publication Ethics

- Definition and types of research misconduct: fabrication, falsification and plagiarism
- Redundant publications: duplicate publication and salami slicing
- Authorship ethics and criteria for authorship
- Responsibilities of authors, reviewers and editors
- Conflict of interest in research and publication

Unit III: Publication Practices and Journal Quality

- Types of research publications: research articles, review papers, conference papers, books and book chapters
- Quality parameters of journals: Impact factor, citation index
- Indexing databases and platforms: Scopus, Web of Science, Google Scholar, DOAJ
- Predatory journals and publishers: Identification and prevention
- Open access publishing models

Unit IV: Plagiarism and Citation

- Meaning and types of plagiarism
- Academic integrity and plagiarism policies
- Plagiarism detection tools: Turnitin, Urkund

Suggested Practical / Assignments

- Identification of predatory journals
- Demonstration of plagiarism checking using available software
- Preparation of reference list using reference management tools
- Writing a short research article with proper citation and referencing

Suggested Readings

1. Bird, A. (2006). *Philosophy of Science*. Routledge.
2. Resnik, D. B. (1998). *The Ethics of Science: An Introduction*. Routledge.
3. Shamoo, A. E., & Resnik, D. B. (2015). *Responsible Conduct of Research*. Oxford University Press.
4. National Academy of Sciences (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research*.
5. Day, R. A., & Gastel, B. (2012). *How to Write and Publish a Scientific Paper*. Cambridge University Press.

Evaluation Scheme

Internal Assessment / Assignment / Seminar: 15 Marks

End Semester Examination: 35 Marks

Raja Mahendra Pratap Singh University, Aligarh

Ph.D. Course Work Syllabus

Paper II : Research Methodology

Credits : 4

Unit: 4

Total Teaching Hours : 60

Maximum Marks : 100

Course objectives

- To develop a comprehensive understanding of research concepts and scientific enquiry.
- To familiarize scholars with different Research Designs and methodologies.
- To train Scholars in techniques of Data Collection, analysis and interpretation.
- To develop skills in academic writing, publication and presentation of research findings.

Course outcome

- Scholars will be able to identify and formulate research problems.
- Scholars will acquire knowledge of quantitative and qualitative research methods.
- Scholars will be able to analyse research data using statistical techniques.
- Scholars will develop the ability to write research papers and theses following academic standards.

Unit : I

- Definition, objectives, motivation and importance of research.
- Approaches to Research : Normative and Traditional, Empirical and Scientific.
- Interdisciplinary and Multidisciplinary Research.
- Research methods : Historical, Philosophical, Observational, Case study, Qualitative and Quantitative methods.

Unit : I

- Formulating Research Problems.
- Sources and Identification of Research Problems.
- Hypothesis : meaning, characteristics and formulation of good hypothesis.
- Review of Literature.
- Outlines of Synopsis

Unit : III

- Research Design.
- Data collection : types of data, importance of data collection.
- Methods of Primary Data Collection : Observation, Interview, Questionnaire, Survey and Sampling.
- Use of Secondary Data and databases, use of library.

Unit : IV

- Structure of Theses / Dissertation.
- Referencing style : APA, MLA, Chicago, IEEE.
- Citation and Bibliography preparation.
- Writing research papers for journals.
- Presentation of research findings and academic communication.
- Reference management tools : Mendeley, zotero, and End note.

Suggested Readings

- S. C. Singhal – A Research Methodology in Political science, Lakshmi Narayan Agarwal Agra.
- Kataria Dr. Surendra, Paliwal Dr. Neha – Research Methodology, National publishing house Jaipur.
- Kothari, C. R. – Research Methodology : Methods and Techniques.
- Kumar, Ranjit – Research Methodology : A Step – by – Step Guide for Beginners.
- Booth, wayne C., Colomb, Gregory G. & Williams Joseph M. – The Craft of Research
- Gupta, S. P. – Statistical Methods.

Evaluation Scheme

Internal Assessment /Assignment /Seminar : 30 Mark.

End Semester Examination : 70 Marks

Raja Mahendra Pratap Singh University, Aligarh

Ph.D. Course Work Syllabus

Paper -III : Subject Specific Course – Political Science

Credits : 4

Unit : 4

Total Teaching Hours : 60

Maximum Marks : 100

Course objectives / course outcomes

- The papers objective is to enable students to gain insight into some basic concepts of research and its methodology.
- Enable students to identify appropriate research topic.
- Enable students to write research proposal and thesis.
- It will enable students to develop their skills in data analysis, critical thinking and writing.

Unit – I

- Approaches to the study of Political Theory.
- A Debate on Decline and Resurgence of Political Theory.
- Major Political Ideologies : Liberalism, Communism, Feminism and Post – Modernism.

Unit -II

- Functions and Challenges to Democracy in India.
- Federalism
- Secularism

Unit – III

- Concept of Development Administration.
- Major Administrative Thinkers : Elton Mayo, Herbert Simon, Fred Riggs.

Unit – IV

- Major approaches to the study of International Relations: Idealism, Realism and Constructionism.
- Recent trends in India's Foreign Policy : Look East Policy, Policy Towards West Asia.
- Role of superpowers in East West Asia and South Asia.
- Role of UNO in maintenance of international peace and security.
- Contemporary International Issues : Human Rights and Environmentalism.

Suggested readings

- S. C. Singhal – Contemporary Political Issues, Lakshmi Narain Agarwal, Agra (Hindi)
- S. H. Sabine, A History of Political Theory, Oxford and IBH, Bombay.
- G. A. Almond – Comparative Politics Today : A world view Pearson Education, Pvt. Ltd., Singapore.
- J. C. Johri – New comparative Govt., Lotus Press, N. Delhi.
- D. D. Basu – An Introduction to the Indian Constitution, Lexis – Nexis Butterworth Wadhwa Publishing House, Nagpur (Hindi)
- A. G. Noorani – Constitutional Question in India : The President, Parliament and the States.
- Arora, Balveer and Verney (edited by Douglas 1995) – Multiple Identities in single state : Indian Federalism in comparative perspective, Konark, Delhi.
- B. Parekh – Rethinking multiculturalism : Cultural diversity and Political Theory, London, Palgrave.
- Reddy and Reddy – Indian fiscal Federalism, OUP India.
- C. Brown – Understanding International Relations, Hampshire Macmillan Press Ltd.

- Paul Brass – Politics of India since Independence, orient longman, Hyderabad.
- Appadorai – Indian Political Thinking Through The Ages, Khanna publishers, Delhi.
- Mukherjee and Mukherjee – India after Independence, N. Delhi, Penguin.
- Birch, Ah – The Concept and Theories of Modern Democracy, Routledge.
- Deepak Nayyar – Governing Globalisation : Issues and Institutions, New Delhi, OUP
- Frans J. Schuurman – Globalisation and Development Studies : Challenges for the 21st century, N. Delhi.
- S.C. Singhal– Ideas and Issues in public administration, Laxmi Narain Agarwal, Agra. (Hindi)
- Fred Riggs – The Ecology of Public Administration, 1961.
- A. P. Awasthi – Development Administration (Hindi)
- Ashutosh Varshney – Democracy, Development and the Countryside : Urban – Rural struggles in India, Cambridge University Press.

Evaluation scheme

Internal Assessment / Assignment / Seminar : 30 Marks.

End Semester Examination : 70 Marks.

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Ph.D. Course work syllabus

Paper – IV: Computer Application

Credits: 2 Units: 4

Maximum Marks: 50

Course Objectives

- To provide fundamental knowledge of computer to research scholars.
- To provide the knowledge of applications required for documentation and presentation.
- To provide the knowledge of digital tools used in literature survey and scientific writing.
- To provide the knowledge of Origin software

Unit – I: Fundamentals of Computer and Operating Systems

- Introduction to Computers: Components, Types and Applications
- Hardware and Software Concepts
- Operating Systems: Windows and Linux Basics
- File Management and Data Storage
- Computer Networks and Internet Basics
- Cyber Security Awareness and Safe Computing Practices

Unit – II: Office Applications for Academic Work

- Word Processing using MS Word / LibreOffice Writer
 - Formatting, Tables, Templates
 - Equation Editor and Symbols
 - References, Footnotes and Endnotes/Zotero
 - Preparation of Research Reports, Thesis and Articles using Word Processors
- Spreadsheet Applications using MS Excel / LibreOffice Calc
 - Data Entry and Management
 - Basic Statistical Functions
 - Graphs and Charts
- Presentation Tools using MS PowerPoint / LibreOffice Impress
 - Slide Design and Layout
 - Inserting Figures, Charts and Multimedia
 - Effective Academic Presentations

Unit – III: Computer Applications in Research

- Literature Search using Academic Databases
- Use of Digital Libraries and Online Resources
- Use of Internet Tools for Research Collaboration

- Open Access Journals and Repositories
- Use of AI and Digital Tools in Academic Research
- Online Submission of Research Papers and Thesis
- Use of LaTeX for Scientific Documentation (Basic Introduction)

Unit – IV: Data processing using Origin

- Basics of origin-
 - Origin workspace, importing ASCII/Excel data, Data Connectors
 - 2D plotting, 3D plotting, customizing axes, legends, and themes for publication
 - creating templates for repetitive data analysis
 - statistical analysis.
- Peak fitting-
 - Finding baselines, peak detection, and peak integration
 - Non-linear Curve Fitting using Gaussian, Lorentzian, Voigt functions
 - Deconvolution or separating overlapping peaks in spectra
 - Outputting peak parameters (Area, Position, FWHM).

Suggested Readings

1. Peter Norton – *Introduction to Computers*
2. Alexis Leon & Mathews Leon – *Introduction to Computers*
3. V. Rajaraman – *Fundamentals of Computers*
4. Kogent Learning – *Office 365 / Microsoft Office Step by Step*
5. Wayne Winston – *Microsoft Excel Data Analysis and Business Modeling*
6. Leslie Lamport – *LaTeX: A Document Preparation System*
7. S.P. Gupta – *Statistical Methods* (for basic data analysis)
8. University Grants Commission – *Research and Publication Ethics Guidelines*

Evaluation Scheme

Internal Assessment / Assignment / Seminar: 15 Marks

End Semester Examination: 35 Marks