



Department of Management and Commerce

Syllabus - Ph.D. Coursework

Semester –I

DMCW 101: Fundamentals of Research Methodology

Credit: 04 (Teaching Hours: 60 hrs.)

Learning Objectives:

- To enable scholars develop basic understanding of research and its fundamental concepts.
- To provide insight into the philosophy of research including insight to understand the importance of research in creation of knowledge.
- To enable research scholars appreciate the importance of philosophical, sociological and psychological bases and sources of knowledge as well core concepts of research processes.

Unit 1: Research Methodology

Methodology; Research; Research Methodologies; Research Questions and Research Objectives; Types of Research; Purposes of Research; Relationship between Methodology and Method, Paradigm of Research

Unit 2: Foundations of Research: Meaning, Objectives, Concept of theory, empiricism, deductive and inductive theory; Characteristics of scientific method – Understanding the language of research – Concept, Construct, Definition, Variable; Research Process

Unit 3: Epistemology and Research

Philosophy of Research; Epistemology as a branch of Philosophy; Theories of knowledge; Sources of knowledge: philosophical, sociological and psychological; different forms of knowledge and validation of knowledge

Unit 4: Philosophy of Science, Mathematics, Social Science and Language

What is Science; Science, Non-science and Pseudo Science; Aims and Claims of Science; Limitations of Science; Description, Causality, Prediction and Explanation; Realism and Instrumentalism.

Epistemological bases of Science, Mathematics, Social Science and Language

Studies and Analysis of the Works of Thomas Kuhn, Karl Popper, Imre Lakatos, Feyerabend, Ernst, Bruno Latour, etc.

References

1. Introduction to Research in Education
(http://wps.ablongman.com/ab_mcmillan_edresearch_4/16/4150/1062448.cw/index.html).
2. Chalmers, A. F. (1999). What is This Thing Called Science?. Queensland: University of Queensland Press.
3. Kuhn, T. (1996). The Structure of Scientific Revolutions(4th ed.). Chicago: University of Chicago Press.
4. Popper, K. (1983). The Logic of Scientific Discovery. London: Hutchinson
5. Feyerabend, P. (). Against Method. Science in Free Society.
6. Pruzan, P. Perspectives on Research (Unpublished).

DMCW 102: Research and Publication Ethics
(As per UGC Guidelines)

Credit: 02 (Teaching Hours: 30 hrs.)

Eligibility:

- Ph.D. students and interested faculty members

Faculty:

- Interdisciplinary Studies

Qualifications of faculty members of the course:

- Ph.D. in relevant subject areas having more than 10 years' of teaching experience.

About the course

Overview

- This course has total 6 units focusing on basics of philosophy of science and ethics, research integrity, publication ethics. Hands-on-sessions are designed to identify research misconduct and predatory publications. Indexing and citation databases, open access publications, research metrics (citations, h-index, Impact Factor, etc.) and plagiarism tools will be introduced in this course.

Evaluation

- Continuous assessment will be done through tutorials, assignments, quizzes, and group discussions. Weightage will be given for active participation. Final written examination will be conducted at the end of the course.

Course structure

- The course comprises of six modules listed in the table below. Each module has 4-5 units.

Modules	Unit title	Teaching hours
Theory		
RPE 01	Philosophy and Ethics	4
RPE 02	Scientific Conduct	4
RPE 03	Publication Ethics	7
Practice		
RPE 04	Open Access Publishing	4
RPE 05	Publication Misconduct	4
RPE 06	Databases and Research Metrics	7
	Total	30

Syllabus in detail

THEORY

- **RPE 01: PHILOSOPHY AND ETHICS (3 hrs.)**
 1. Introduction to philosophy; definition, nature and scope, concept, branches
 2. Ethics: definition, moral philosophy, nature of moral judgment and reactions
- **RPE 02: SCIENTIFIC CONDUCT (5 hrs.)**
 1. Ethics with respect to science and research
 2. Intellectual honesty and research integrity
 3. Scientific misconducts: Falsification, Fabrication, and Plagiarism (FFP)
 4. Redundant publications: duplicate and overlapping publications, salami slicing
 5. Selective reporting and misrepresentation of data
- **RPE 03: PUBLICATION ETHICS (7 hrs.)**
 1. Publication ethics: definition, introduction and importance
 2. Best practices/standards setting initiatives and guidelines: COPE, WAME, etc.
 3. Conflicts of interest
 4. Publication misconduct: definition, concept, problems that lead to unethical behavior and vice versa, types.
 5. Violation of publication ethics, authorship and contributorship
 6. Identification of publication misconduct, complaints and appeals
 7. Predatory publishers and journals

PRACTICE

- **RPE 04: OPEN ACCESS PUBLISHING (4 hrs.)**
 1. Open access publications and initiatives
 2. SHEPRA / RoMEO online resource to check publisher copyright & self-archiving policies
 3. Software tool to identify predatory publications developed by SPPU
 4. Journal finder / journal suggestion tool viz. JANE, Elsevier Journal Finder, Springer Journal.
- **RPE 05: PUBLICATION MISCONDUCT (4hrs.)**
 - A. Group Discussion (2 hrs.)**
 1. Subject specific ethical issues, FFP, authorship
 2. Conflicts of interest
 3. Complaints and appeals: examples and fraud from India and abroad
 - B. Software tools (2 hrs.)**

Use of plagiarism software like Turnitin, Urkund and other open source software tools
- **RPE 06: DATABASES AND RESEARCH METRICS (7hrs.)**
 - A. Databases (4 hrs.)**
 1. Indexing databases
 2. Citation databases: Web of Science, Scopus, etc.
 - **B. Research Metrics (3 hrs.)**
 1. Impact Factor of journal as per Journal Citation Report, SNIP, SJR, IPP, Cite Score
 2. Metrics: h-index, g index, i10 index, altmetrics

References

Bird, A. (2006). *Philosophy of Science*. Routledge.

MacIntyre, Alasdair (1967) *A Short History of Ethics*. London.

P. Chaddah, (2018) *Ethics in Competitive Research: Do not get scooped; do not get plagiarized*, ISBN:978- 9387480865

National Academy of Sciences, National Academy of Engineering and Institute of Medicine. (2009). *On Being a Scientist: A Guide to Responsible Conduct in Research: Third Edition*. National Academies Press.

Resnik, D. B. (2011). *What is ethics in research & why is it important*. National Institute of Environmental Health Sciences, 1-10. Retrieved from

<https://www.niehs.nih.gov/research/resources/bioethics/whatis/index.cfm> Beall, J. (2012). *Predatory publishers are corrupting open access*. *Nature*, 489(7415), 179-179. <https://doi.org/10.1038/489179a>

Indian National Science Academy (INSA), *Ethics in Science Education, Research and Governance* (2019), ISBN:978-81-939482-1-7. <http://www.insaindia.res.in/pdf/EthicsBook.pdf>

DMCW 103: Research Methods for Management

Credit: 04 (Teaching Hours: 60 hrs.)

UNIT-1: Fundamental of Research and Sampling in Management Research:

Definition, Importance, Advantages and Limitation, The Research Process, Problem Identification, Design of Research, Types of Design, Sampling Process and Selection, Sample Type, Sample Size, Sampling Errors.

UNIT-2: Data Collection and Data Processing in Management Research:

Data Collection Methods, Tools, Questioner, Interview Schedule, Kinds of Data, Attitude Measurement of Scaling Technique, Editing, Coding, Tabulation.

UNIT-3: Statistical Data Analysis in Management Research:

Statistical Data Analysis, Hypothesis (Source, Formulation, Testing) Z Test, T- test, Chi Square Test.

UNIT-4: Interpretation and Report Writing in Management Research:

Steps in Report Writing, Layout of Report, Types, Principals of Report Writing, Graphical Representation of Results.

UNIT-5: Research Application in Management Research:

Product Research, Price Research, Motivation Research, Promotion Research, Distribution Research, Sales Control Research, Media Research.

Recommended Books:-

C. R Kothari, 'Research Methodology Methods and Technique', New Age International Publishers

M. K. Jain, 'Research Methodology', University Publication New Delhi.

DMCW 104: Computer Application

Credit: 04 (Teaching Hours: 60 hrs.)

This paper will be dealt & taught by LILA section as per University Norms.

DMCW 105: Management thoughts and Contemporary Practices (Subject Specific)

Credit: 04 (Teaching Hours: 60 hrs.)

UNIT -1

Classical Theory, Scientific Management, Administrative Management, Bureaucratic Management

Neo Classical Theory, Behavioral System Movement

UNIT-2

System Theory and Approach, Contingency Approach, Need Theory (Maslow, McGregor and McClelland)

Leadership Thought Theory

UNIT-3

Management of Business Environment, Corporate Social Responsibility, Ethics and Value System in Indian Business

UNIT-4

MBO and TQM, Creativity and Innovation in Management, Organizational Transformation, Technology Management, Knowledge Management

UNIT-5

Contemporary Management Viewpoints, Macknisey 7S Framework, 21st Centaury Approaches to Management- Theory Z Approach, Michael Potter's Industry and Competitive Analysis, Contribution of C. K. Prahlad, Hamel, Peter Ducker, Henry Mintzberg and Harward Simen.

Recommended Books:-

Dr. R. N. Singh, Management Thoughts and Thinkers" Sultan Chand and Sons New Delhi

Navin Mathur, Management Thoughts" National Publishing House, Choura Rasta Jaipur

Edward De Bono, 'Lateral Thinking for Management', McGraw hill Book company UK.

**Head of the Department
Management & Commerce**