

**MANGALORE UNIVERSITY**  
**DEPARTMENT OF ECONOMICS**

No. MU/ECO/ACC-3/2021-21/227

Mangalagangothri-574 199  
Phone: 0824-2287372(O)  
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Prof. Vishwanatha  
Chairman  
PG BOS in Economics

To:

The Registrar  
Mangalore University  
Mangalagangothri

Sir,

**Sub:** Ph.D. Course work Syllabus of RPE  
**Ref:** UGC office D.O. No.F.1-/2018 (Journal/CARE) dated December 2019

Please find enclosed the syllabus of Ph.D. course work titled "Research and Publication Ethics (RPE)". This Ph.D. course work title is approved by the PG Board of Studies in Economics by circulations.

Thanking you,

Yours faithfully,

(Vishwanatha)

Chairman  
PG BOS in Economics  
Mangalagangothri-574199



**MANGALORE UNIVERSITY**  
**Ph.D COURSE WORK SYLLABUS**  
**DEPARTMENT OF ECONOMICS**

**PAPER-I RESEARCH METHODOLOGY**

**Course Objectives:**

1. To expose research student to the fundamentals of research in Economics.
2. To examine the role and importance of research in the Social Sciences.
3. To develop understanding of the basic frame work of Research Process.
4. To understand the complex issues inherent in selecting a research problem, selecting an appropriate research design and proceeds of research work.
5. To discuss the concepts and procedures of sampling, data collection, analysis and reporting of research work.
6. To familiarize students with qualitative and quantitative skills involved in social science research.

**Course Outcomes:** Research Students who successfully complete this course

will be able to:

1. Understand and able to distinguish between Research and other Reading priorities.
2. Reflect on the issues/concepts effectively.
3. Approach the sources as well as interpret as required.
4. Develop understanding on various kinds of research, objectives of doing research, research process, research designs and sampling.
5. Make use of techniques including statistical methods in social science research.

**PAPER I: RESEARCH METHODOLOGY IN ECONOMICS**

## **Module I: Foundations of Research:**

What is research? Social science research and Types of research- difference between pure and applied research-descriptive research, diagnostic research, experimental research, non-experimental research, and analytical research. Action research and steps in research.

## **Module II: Research Planning and Review of Literature**

Research design-identification of a problem-conceptualization-hypothesis formulation objectives of research, Review of literature- what to review and procedure of review, sources of data-Primary and Secondary Cataloguing-Survey setting-approach to the problem-experimental design-pilot studies-bench mark surveys case studies-field studies – villages studies-national studies-census surveys.

## **Module III: Statistical Methods in Research**

Statistics - Meaning - Significance - Application in Economic Analysis - Data and Information - Primary and Secondary Data - Data Collection Methods - Processing of Data - Data Classification and Tabulation.

Sampling - Place of sampling in census and survey work - Requirements of a good sample - Structure of various types of sample - sampling size, Practical problems arising in the planning of a survey - Problems arising in the execution and analysis of a survey design.

## **Module IV: Research Methods and Tools of Analysis**

Content analysis, quantitative, qualitative and descriptive analyses –tools of analysis Processing and interpretation of data – hypothesis, and testing the hypothesis and forecasting-editing-classification-coding tabulation statistical interpretation and explanations-correlation and regression analysis, Application of Econometrics and models and use of statistical software for data analysis.

## **Module V: Research Report Writing**

Types of reports, report format and Principles of report writing- organization of a thesis – documentation and providing foot notes and bibliographies.

## List of Books

1. J.Hentschel (1998), Distinguish between Types of Data and Methods of Collecting Them, World Bank.
1. E.M. Trauth (2001), Qualitative Research: Issues and Trends, Idea Group Publishers.
2. Don Erwin Ethridge (2004), Research Methodology in Applied Economics- Organizing Planning and conducting research, Black well publishing Company.
3. Subhas Jain, Rebecca Marschan. Piekkari (2003), Hand book on Qualitative Research Methods for Handbook of Research in International Marketing, Oxford.
4. Tata H.A. (1997), Operation Research: An Introduction, Prentice Hall of India Pvt Ltd, New Delhi.
5. P.C. Tripathi (2008), A Textbook of Research Methodology in Social Science, Sulthan Chand & Sons, New Delhi.
6. C.R. Kothari and Gaurav Garg (2014), Research Methodology - Methods and Techniques, New Age International Publishers.
7. Allen R.G.D. (1974), Mathematical Analysis for Economists, English Language Book Society, London.
8. Baumol, W.G. (1980), Theory Economic and Operations Analysis, 4<sup>th</sup> Ed., Prentice-Hall of India New Delhi.
9. Chiang, Alpha C. (1974), Fundamental Methods of Mathematical Economics, MCGraw-Hill, Kogakusha Ltd., Tokyo.
10. Dinwiddy, C. Caroline (1967), Elementary Mathematics for Economics, Oxford University Press Nairobi.
11. Handry ,A.T. (1999), Operations Research, Prentice Hall of India, New Delhi.
12. Handerson, J.M. & Quandt, Richard (1980), Micro Economic Theory- A Mathematical Approach, 3<sup>rd</sup> ed., McGraw-Hill: Auckland,.
13. Weber, Jean, D. (1982), Mathematical Analysis- Business and Economic Applications- 4<sup>th</sup> ed.,- Harper & Row, Cambridge.
14. Yamane, Taro (1975), Mathematics for Economists: An Elementary Survey, 2<sup>nd</sup> Edition, Prentice Hall, New Delhi.
15. Chou.Y. (1975), Statistical Analysis, Holt, Reinhart and Winston, New York.
16. Elhance, D.N. (1987), Fundamental methods of Statistics, Kitab Mahal, Allahabad.
17. Gupta, S.C. (1993), Fundamentals of Applied Statistics, S. Chand & Sons, New Delhi.

18. Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book Co, London.
19. Amemiya, T. (1985), Advanced Econometrics, Harvard university Press, Cambridge, Mass.
20. Baltagi, B.H. (1998), Econometrics, Springer, New York
21. Dongherty, C. (1992), Introduction to Econometrics, Oxford University Press, New York.
22. Goldberger, A.S. (1998), Introductory Econometrics, Harvard University Press, Cambridge, Mass.
23. Gujarati, D.N. (1995), Basic Econometrics (2<sup>nd</sup> edition), McGraw Hill, New Delhi.
24. Hill R.C., E.G. William and G.G. Judge (1997), Undergraduate Econometrics, Wiley, New York.
25. Kennedy, P. (1998), A Guide to Econometrics (4<sup>th</sup> Edition), MIT Press, New York.
26. Kmenta, J. (1997), Elements of Econometrics (Reprint Edition), University of Michigan Press, New York.
27. Koutsoyiannis, A. (1977), Theory of Econometrics (2<sup>nd</sup> ed), The Macmillan Press Ltd., London.
28. Krishna, K.I.L. (ed) (1997), Econometric Applications in India, Oxford University Press, New Delhi.
29. Maddala, G.S. (ed) (1993), Econometrics Methods and Application (2vols), Aldershot U.K.
30. Theil, H. (1981), Introduction to Econometrics, Prentice hall of India, New Delhi.

## **PAPER-II REVIEW OF LITERATURE**

### **Course Objectives:**

1. To equip the Researchers with the in-depth understanding of the research area.
2. To enable the Researcher to comprehend the issues concerning research area
3. To cultivate critical reflection on the subject area by the Researcher.
4. To take a stock of the materials available to research.

### **Course Outcomes:** The students will be enabled to;

1. Have nuanced understanding of the area.
2. Empowered to handle research.
3. Capable of critical reflection on the research area.
4. Capable of identifying the relevant materials, research gaps and set goals for research.

In this paper the Review report submitted by the researcher will be evaluated, among others, with due consideration to the following aspects highlighted in the report:

- Significance of the study area
- Selection of literature/materials
- Identification of specific area of research
- Delineation of different aspects of research area
- Formulation of research questions and critical reflection
- Methodological requirement of research writing.

### **Course Work Viva-voce:**

There shall be a Viva voce towards the end of course work in which the researchers ability to handle ideas and abstractions, knowledge about the subject area, analytical and presentation skills, critical reflections among others will be assess



## Course Title -2

**Research and Publication Ethics (RPE)-** Course for awareness about the publication ethics and publication misconducts.

### About the course

**Course Code: CPE-RPE**

### **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.

### **Pedagogy**

- Classroom teaching, guest lectures, group discussions and practical sessions

### **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.

### Syllabus in detail

#### **THEORY**

#### **01 • PHILOSOPHY AND ETHICS (3 hrs.)**

1. Introduction to philosophy: definition, nature and scope, concept, branches
2. Ethics: definition, moral philosophy, nature of moral judgements and reactions

#### **02 • SCIENTIFIC CONDUCT (5hrs.)**

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

#### **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

### 04 • OPEN ACCESS PUBLISHING (4 hrs.)

1. Open access publications and initiatives
2. SHERPA/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 tools viz. JANE, Elsevier Journal Finder, Springer Journal Suggester, etc.

### 05 • PUBLICATION MISCONDUCT (4 hrs.)

#### A. Group Discussions (2hrs.)

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

### 06 • DATABASES AND RESEARCH METRICS (7 hrs.)

#### 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 Academics 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/what\\_is/index.cfm](https://www.niehs.nih.gov/research/resources/bioethics/what_is/index.cfm)
- Beali, J. (2012), Predatory publishers are corrupting open access, *Nature*, 489(7415), 179-179. <https://doi.org/10.1038/4891798>
- 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/Ethics\\_Book.pdf](http://www.insaindia.res.in/pdf/Ethics_Book.pdf)