

ಮಂಗಳೂರು  
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
UNIVERSITY

(Accredited by NAAC with 'A' Grade)

No. : MU/ACC/CR.46/2014-15/A2

ಕುಲಸಚಿವರ ಕಛೇರಿ  
ಮಂಗಳಗಂಗೋತ್ರಿ - 574 199  
Office of the Registrar  
Mangalagangothri - 574 199

ದಿನಾಂಕ/Date: 15.02.2016

## NOTIFICATION

Sub : Revised syllabus for Ph.D. Course work in Physical Education  
Ref: Academic Council decision No.: 3:22(2015-16), dated 25.01.2016.

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The revised Syllabus for Ph.D Coursework in Physical Education which approved by the Academic Council at its meeting held on 25.01.2016 is hereby notified for implementation with effect from the academic year 2015-16.

  
REGISTRAR.

To:

- 1) The Chairmen of P.G. Departments/ Co-ordinators of P.G. Courses/ Principals of the Recognised Colleges/ Directors of Recognised Institutions of Mangalore University.
- 2) The Chairman, Board of Studies in subject concerned.
- 3) The Superintendent (ACC), O/o the Registrar, Mangalore University.
- 4) Guard File.

Physical Edn - 2 copies  
R (E) - 2 copies.

ರವಾನಿಸಲಾಗಿದೆ  
ನಂ:..... ದಿನಾಂಕ: 15/2/16  
ಪಹಿ:.....

# MANGALORE UNIVERSITY

## SCHEME OF EXAMINATION FOR Ph.D. COURSE WORK IN PHYSICAL EDUCATION

| Papers  | Particulars          | Hours of Instruction per week | Duration of Exam (hrs) | Marks |        |       |         |
|---------|----------------------|-------------------------------|------------------------|-------|--------|-------|---------|
|         |                      |                               |                        | IA    | Theory | Total | Credits |
| Paper 1 | Research Methodology | 4                             | 3                      | 30    | 70     | 100   | 4       |
| Paper 2 | Review of Literature |                               |                        |       |        |       |         |
|         | Review Report        | 16                            | -                      | -     | -      | 150   | 8       |
|         | Viva                 | -                             | -                      | -     | -      | 50    | 2       |
|         |                      |                               |                        |       |        |       | 14      |

## Syllabus for Ph.D. Course Work in Physical Education

### Research Methodology

#### Chapter I- Foundations:

The Language of Research, Types of Studies, Time of Research, Variables, Hypotheses, Types of data, The Unit of Analysis, Philosophy of Research, Ethics in Research, Problem formulation, The literature review.

#### Chapter II – Sampling:

External Validity, Sampling Terminology, Statistical terms in sampling, Probability sampling, Non-probability sampling.

#### Chapter III- Survey Research and Scaling:

Survey Research, Types of Survey, Selecting the Survey Method, Constructing the Survey, Interviews, Advantages and disadvantages of Survey Methods, Scaling, Qualitative and Quantitative data.

#### Chapter IV- Experimental design:

Introduction to Experimental Design, Classifying Experimental Designs, Factorial Designs, Randomised block designs, Covariance designs, Quasi-experimental design.

#### Chapter V- Analysis:

Conclusion validity, Data preparation, Statistical Power, checking the data for accuracy, Data transformation, Descriptive statistics, the distribution, Central tendency, Dispersion, Correlation, Testing the significance of a correlation, other correlations, Inferential statistics.

#### Chapter VI- Research Proposal and Reporting:

Formating, title page, Abstract, Body of thesis, Introduction, Methods, Sample, Measures, design, Procedures, Results, Conclusions, References, Tables, figures, Appendices, Sample Paper.

#### Reference Books:

1. William M.K. Trochim, Research Methods, Atomic Dog Publishing, U.S.A.
2. Best J. W (1971) Research in Education, New Jersey; Prentice Hall, Inc
3. Clarke David. H & Clarke H, Harrison (1984) Research processes in Physical Education, New Jersey; Prentice Hall Inc.
4. Craig Williams and Chris Wragg (2006) Data Analysis and Research for Sport and Exercise Science, London; Routledge Press
5. Jerry R Thomas & Jack K Nelson (2000) Research Methods in Physical Activities; Illinois; Human Kinetics
6. Kamlesh, M. L. (1999) Research Methodology in Physical Education and Sports, New Delhi  
Moses, A. K. (1995) Thesis Writing Format, Chennai; Poompugar Pathippagam

Physical

**Pre Ph.D. Course Work Syllabus in Education**

**Paper II : REVIEW OF LITERATURE**

- ▷ **The review of literature shall be in the area of specialisation/other areas and other Inter-disciplinary area in consultation with respective area.**

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ಕ್ರಮಾಂಕ/ No. : MU/ACC/CR 67/2020-21/A2

ಕುಲಸಚಿವರ ಕಛೇರಿ

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Office of the Registrar

Mangalagangothri - 574 199

ದಿನಾಂಕ/Date:22.12.2021

**NOTIFICATION**

Sub: Revised syllabus for Ph.D. Coursework in Physical Education

Ref: Academic Council approval vide agenda

No.: ಎಸಿಸಿ:ಶೈ.ಸಾ.ಸ.3:99 (2021-22) dated 17.12.2021

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The revised syllabus for Ph.D. Coursework in Physical Education which has been approved by the Academic Council at its meeting held on 17.12.2021 is hereby notified for implementation with effect from the academic year 2021-22.

  
**REGISTRAR**

To,

1. The Chairman, Dept. of P.G. Studies and Research in Physical Education and Sports, Mangalore University, Mangalagangothri
2. The Chairman, PG BOS in Physical Education, P.G. Studies and Research in Physical Education and Sports, Mangalore University.
3. The Registrar (Evaluation), Mangalore University.
4. The Superintendent (ACC), O/o the Registrar, Mangalore University.
5. The Asst. Registrar (ACC), O/o the Registrar, Mangalore University.
6. Guard File.

**MANGALORE UNIVERSITY**  
**DEPARTMENT OF PHYSICAL EDUCATION**  
**SCHEME OF EXAMINATION FOR PH.D. COURSE WORK**

| Course  | Particulars                                | HoursofIns<br>tructionper<br>week | Duration<br>ofExam(<br>hrs.) | Marks |              |            | Credits   |
|---------|--------------------------------------------|-----------------------------------|------------------------------|-------|--------------|------------|-----------|
|         |                                            |                                   |                              | IA    | Theory       | Total      |           |
| Course1 | ResearchMeth<br>odology                    | 4                                 | 3                            | 30    | 70           | 100        | 4         |
| Course2 | ResearchandP<br>ublication<br>Ethics (RPE) | 2                                 | 3                            | 30    | 70           | 100        | 2         |
| Course3 | Review<br>ofLiterature                     | 14                                | -                            | -     | -            | 150        | 6         |
|         | Review report                              |                                   |                              | -     | -            | 50         | 2         |
|         | Viva                                       |                                   |                              |       |              |            |           |
|         |                                            |                                   |                              |       | <b>Total</b> | <b>400</b> | <b>14</b> |

**Course Title:**

**Research and Publication Ethics {RPE}**-Course for awareness about the publication ethics and publicationmisconducts.

**Course Level:**

2Creditcourse(30hrs.)

**Eligibility:**

M.Phil., Ph.D. students and interested faculty members.

**Fees:**

As per UniversityRules

**Faculty:**

InterdisciplinaryStudies

**Qualifications of faculty members of the course:**

Ph.D.inrelevantsubjectareashavingmorethan10years'ofteachingexperience

## **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.

### **Course structure**

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

| <b>Modules</b>  | <b>Unit Title</b>      | <b>Teaching Hours</b> |
|-----------------|------------------------|-----------------------|
| <b>Theory</b>   |                        |                       |
| RPE01           | Philosophy and Ethics  | 4                     |
| RPE02           | Scientific Conduct     | 4                     |
| RPE03           | Publication Ethics     | 7                     |
| <b>Practice</b> |                        |                       |
| RPE04           | Open Access Publishing | 4                     |
| RPE05           | Publication Misconduct | 4                     |
| RPE06           | Databases and Research | 7                     |
|                 | <b>Total</b>           | <b>30</b>             |

## **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 (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

## **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 (4hrs.)**

#### **A. Group Discussions (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

### **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/pdt7EthicsBook.pdf>