

397  
04/01/22

ಮಂಗಳೂರು  
MANGALORE



ವಿಶ್ವವಿದ್ಯಾನಿಲಯ  
UNIVERSITY

(Accredited by NAAC)

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

ಕುಲಸಚಿವರ ಕಛೇರಿ

ಮಂಗಳಗಂಗೋತ್ರಿ - 574 199

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.: ಎಸಿ:ಶೈ.ಸಾ.ಸ.3:99 (2021-22) dated 17.12.2021

\*\*\*\*\*

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,

- ✓ 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.

698

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

| Course   | Particulars                           | Hours of Instruction per week | Duration of Exam (hrs.) | Marks |              |            | Credits   |
|----------|---------------------------------------|-------------------------------|-------------------------|-------|--------------|------------|-----------|
|          |                                       |                               |                         | IA    | Theory       | Total      |           |
| Course 1 | Research Methodology                  | 4                             | 3                       | 30    | 70           | 100        | 4         |
| Course 2 | Research and Publication Ethics (RPE) | 2                             | 3                       | 30    | 70           | 100        | 2         |
| Course 3 | Review of Literature                  | 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 publication misconducts.**

**Course Level:**

**2 Credit course (30 hrs.)**

**Eligibility:**

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

**Fees:**

**As per University Rules**

**Faculty:**

**Interdisciplinary Studies**

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

**Ph.D. in relevant subject area having more than 10 years' of teaching experience**

## 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.

| Modules         | Unit Title             | Teaching Hours |
|-----------------|------------------------|----------------|
| <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>



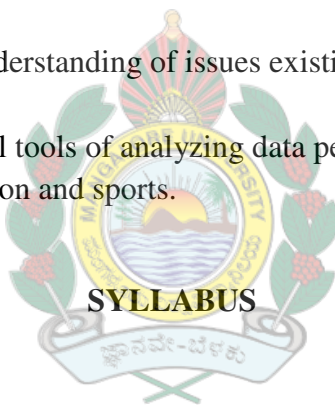
## **DOCTOR OF PHILOSOPHY IN PHYSICAL EDUCATION**

### **Programme Outcomes**

1. The Programme of Doctoral Studies in Physical Education is geared towards advancing the Studies pertaining to Physical Education and Sports.
2. To inculcate the spirit of research in Physical Education Professionals and thereby expand the horizons of knowledge in the field.
3. To popularize the Physical Education and sports as an analytical discipline and add a scientific touch to it;
4. To add to the existing knowledge by acquainting oneself with different types of tools of research and becoming proficient in it.

### **Programme Specific Outcomes**

1. To identify the areas of Research in Physical Education and Sports and develop expertise in those areas
2. To increase the depth of understanding of issues existing in sports and develop an attitude of solving these issues.
3. To understand the analytical tools of analyzing data pertaining to varying types of research in physical education and sports.



### **PAPER I : RESEARCH METHODOLOGY**

#### **Course Outcomes:**

1. To Understand the fundamentals of Research Methodology in Research
2. To understand the types of research prevailing in physical education and sports
3. To Understand the analysis of different types of research.
4. To become acquainted with the writing of thesis and data.

#### **Chapter I – Foundations:**

The language of Research, Types of Studies, Time of Research, Variables, Hypothesis, 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, Covarians designs, Quasi-Experimental Designs.

## **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:**

Formatting, 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 God Publishing, USA
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 & Rack K Nelson (2000) Research Methods in Physical Activities, Illinois, Human Kinetics
6. Kamlesh, M L (1995) Thesis Writing Format. Chennai, Poompugar Pathippagam

## II PAPER – REVIEW OF LITERATURE

### Course Outcomes:

1. To become aware of the research done in an individual's area of expertise.
2. To understand the methodology followed and analysis done on related areas of research.
3. To develop a topic of research based on the literature reviews done and finalise the research topic.

