SECTION - IV
Detailed Syllabus of the Courses

MPED – I Semester
PART – A
THEORY COURSES

MPCC – 101:
Course Title: RESEARCH PROCESS IN PHYSICAL EDUCATION AND SPORTS SCIENCES

Credit			Teaching Hours		
Lecture/Tutorials	**Practical/Internship**	**Total**	**Lecture/Tutorials**	**Practical/Internship**	**Total**
4	-	4	64	-	64

THE COURSE OBJECTIVES ARE:

1. To develop understanding of the basic framework of research process.
2. To identify appropriate research topics.
3. To identify various sources of information for literature review and data collection.
4. Select and define appropriate research problem, parameters and research questions.
5. To develop an understanding of various research designs and techniques.
6. Write a research proposal and report.
7. Organize and conduct a scientific research in a more appropriate manner
8. To develop an understanding of the ethical dimensions of conducting applied research.

THE STUDENT LEARNING OUTCOMES ARE:

1. To define research and describe the research process and research methods.
2. To understand the research context within the area of physical Education and sports.
3. To understand the processes and requirements for conducting successful research in physical education and sports.
4. Understand and apply basic research methods.
5. Students use print and electronic library resources effectively and appropriately.
6. To understand the process of sampling, the uses of questionnaires as data-gathering instruments, how a survey is carried out in terms of process and method, the uses of surveys and to be able to capture their own data.
7. Understand and apply basic research methods including research design, data analysis, and interpretation.
8. Students develop testable hypotheses, differentiate research design, evaluate aptness of research conclusions, and generalize them appropriately.
9. Students design and conduct quantitative or qualitative research studies in laboratory or field settings.
10. Students use research data to formulate or evaluate new research questions, using reason and persuasion in a logical argument.
11. To know how to apply the basic aspects of the research process in order to plan and execute a research proposal and research report.
12. To be able to present, review and publish scientific articles.

UNIT – 1: INTRODUCTION

- Meaning and Definition of Research –
- Need, Nature and Scope of research in Physical Education.
- Classification of Research, Location of Research Problem,
- Criteria for selection of a problem,
- Limitation, Delimitation, Hypothesis
- Qualities of a good researcher

UNIT – II: METHODS OF RESEARCH

- Descriptive Methods of Research:
  - Survey Study and Case study,
- Historical Research
  - Steps in Historical Research
  - Sources of Historical Research:
  - Primary Data and Secondary Data,
  - Historical Criticism: Internal Criticism and External Criticism.
- Experimental Research – Meaning, Importance,
  - Meaning of Variable, Types of Variables.
  - Experimental Design - Single Group Design, Reverse Group Design, Repeated Measure Design, Static Group Comparison Design, Equated Group Design, Factorial Design.

UNIT – III: SAMPLING

- Meaning and Definition of Sample and Population.
- Types of Sampling
  - Probability Methods
    - Systematic Sampling
    - Cluster sampling
    - Stratified Sampling.
    - Multistage Sampling
  - Non- Probability Methods;
    - Convenience Sample,
    - Judgment Sampling,
    - Quota Sampling.

UNIT – IV: RESEARCH PROPOSAL AND RESEARCH REPORT

- Research Project
- Writing a Research Proposal: Introduction and its parts
- Footnotes & Bibliography, E-Referencing
- Ethical Issues in Research:
  - Areas of Scientific Dishonesty
  - Ethical issues regarding copyright
  - Responsibilities of Researcher
  - Working Ethics with Faculty
  - Protecting Human Participants
- Plagiarism

TEACHING LEARNING STRATEGIES: The class will be taught by using lectures and demonstration, seminars, classroom discussion, videos, charts and presentations method.

ACTIVITIES: Lecture//Laboratory Work/ Field Work/ Outreach Activities/ Project Work/ Vocational Training/Viva/ Seminars/ Term Papers/Assignments/ Presentations/ Self-Study etc.

ASSESSMENT RUBRIC: Classroom Test, Project Work, Assignments, Presentations

TEXT & REFERENCES:

- Best & Kahn (2003) Research in Education, 10th Ed. New Jersey; Prentice Hall, Inc.
- Clarke David. H & Clarke H, Harrison (1984) Research processes in Physical Education,
- New Jersey; Prentice Hall Inc.
- Craig Williams and Chris Wragg (2006) Data Analysis and Research for Sport and Exercise
- Science, Londonl Routledge Press
- Jerry R Thomas & Jack K Nelson (2000) Research Methods in Physical Activities; Illinois;
- Human Kinetics;
- Kamlesh, M. L. (1999) Research Methodology in Physical Education and Sports, New Delhi
- Moses, A. K. (1995) Thesis Writing Format, Chennai; PoompugarPathippagam
- Rothstain, A (1985) Research Design and Statistics for Physical Education, Englewood
- Cliffs: Prentice Hall, Inc.
- Subramanian, R, Thirumalai Kumar S &Arumugam C (2010) Research Methods in Health,
- Physical Education and Sports, New Delhi; Friends Publication
- Moorthy A. M. Research Processes in Physical Education (2010); Friends Publication, New Delhi