

**DEPARTMENT OF PHYSICAL EDUCATION
ALAGAPPA UNIVERSITY, KARAİKUDI**

**Ph.D. Pre Registration Qualifying Entrance Examination
Revised Syllabus**

COURSE NAME: RESEARCH METHODOLOGY

UNIT -I RESEARCH IN PHYSICAL EDUCATION

Physical Education research-Meaning, Importance and Scope of research in Physical Education – Types of research: basic & applied research, and action research, and their characteristics - knowledge and Research - Planning the research study: sources of research problems, review of the literature-purpose and resources-Web resource-statement of problem.

UNIT -II QUANTITATIVE METHODS OF RESEARCH

Quantitative method: - co-relation studies, and correlation research-controlling variables- Nature of experimental research, variables in experimental research -independent, dependent and confounding variables - Experimental research designs: single-group pre-test post-test design, pre-test post-test control-group design, Post-test only control-group design, and Factorial design.

UNIT -III QUALITATIVE METHODS OF RESEARCH

Qualitative research: meaning, steps and characteristics - Descriptive Methods of Research- Survey Studies, case studies- Historical research- meaning, significance, steps, primary and secondary sources –philosophical research-longitudinal research- methods of collecting data.

UNIT -IV METHODS AND TOOLS

Objectives,Hypothesis- Research Question-Population-Sample-Sampling Tools standardization of tools, Reliability, validity, objectivity– Opinionaires –Questionnaires- Interview –observation schedule –rating scale, -check list.

UNIT V- RESEARCH REPORT

Preparation of the research proposal- format of the research report -The dissertation or thesis –Style of writing - synopsis–evaluation of research report. Ethical Issues in Research

REFERENCE AND TEXTBOOKS:-

- Best J.W (1999) *Research in Education* New delhi; Prentice Hall of india pvt.ltd.
- 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*, London 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.
- Kerlinger, F.N. (1986). *Foundations of Behavioural Research*. Fort Worth, TX: Harcourt BmceJovanovich.
- Patton. M.Q. (2002). *Qualitative Research and Evaluation Methods*. Thousand Oaks: C.A: Sage.
- Sharma, Bharti (2004). *Methodology of Educational Research*. New Delhi: Vohra Publishers and Distributors
