

# **UNIVERSITY OF MUMBAI**



## **Ph. D. Course Work**

**(Prescribed by the Ad-hoc Board of Studies  
in Physical Education with Effect from  
the Academic Year 2012-13)**

## UNIVERSITY OF MUMBAI

### COURSE WORK FOR Ph.D. IN PHYSICAL EDUCATION

(Prescribed by the Ad-hoc Board of Studies in Physical Education  
with Effect from the Academic Year 2012-13)

#### I. NATURE OF COURSE WORK

1. *The duration of the course work shall be a minimum period of one semester i.e. 06 months.*
2. *Every candidate shall be evaluated by the research center/department in the course work.*
3. *The course work shall be treated as Pre-Ph. D. preparation.*
4. *Candidate who have successfully completed the M. Phil programme from University of Mumbai or any other UGC recognized University as per UGC guidelines from time to time will be exempted from the course work.*
5. *It is proposed to commence the teaching programme every year from the month of December and complete the same by the end of the month of May next year. This would entail instructional time from December to April followed by a one month period for the learner to complete and fulfill the requirements for the completion of the course work.*
6. *Instructional time for the teaching programme would consist of 48 hours per course. Generally this would be conducted in the form of two hour interactive sessions on every Saturday from 2.00 pm. to 4.00 pm. during the semester.*
7. *Every alternate working Saturday will be used up by one of the course programmes of its seminar sessions, such that by the end of April all three courses would have conducted 24 contact sessions of two hours each.*
8. *Attendance for the entire programme is compulsory and as per University regulations, it is mandatory that learner maintain at least 75% attendance during the entire course.*
9. *On completion of the teaching programme, the center/department will announce the name of those candidates who have successfully finished the programme, as well as the grades they have obtained in the entire three courses.*
10. *Those students, who have not completed the research programme satisfactorily, as the requirements of the center/ department will be asked to repeat the course in the subsequent year and only after they have successfully completed the course programme, they will be permitted to proceed with their doctoral research work.*
11. *It will be endeavored to use the seminar format to teach all three courses. This would involve the students, having in advance in their possession, the reading material for discussion and deliberation during input session.*
12. *It will be the duty of the course co-coordinator to ensure that all resource persons being invited to take input sessions (including faculty members of the center/ department) will make available, atleast a week in-advance, the reading material that he/she will utilize during the input session.*
13. *Participants will be provided with a timetable, at the beginning of each week, stating the different courses/ resource persons/ topics/ timings etc.*

14. Prior to the commencement of the course work, all participants to the programme should undergo a half-day workshop (Orientation) to be held at the beginning of the first week of December.
15. Ph.D Course work shall be offered with credit system. The entire course will have total 18 credits. The learner will have to earn maximum 18 credits in maximum of 03 semester.
16. The course wise and credit wise distribution is as under:

SR No	Course	Credits
1	<i>Research Methodology in Physical Education and Sports</i>	06
2	<i>Computer Application in Physical Education and Sports</i>	06
3	<i>Area Based course work, Active Participation and Field work</i>	06

## II. THE COURSE WISE CONTENT

### Course-I Research Methodology in Physical Education and Sports (06 credits)

#### Module I Introduction to Research

- Meaning, Characteristics and Areas of Research
- Qualities of a good Research and Researcher
- Components of Research Proposal

#### Module II Reviewing Related Literature

- Importance of reviewing related literature and kinds of Sources
- Procedure of reviewing related literature
- Reviewing literature from internet Sources
- Recording of reviews

#### Module III Research Methods

- Descriptive Method
- Historical Method
- Experimental Method

#### Module IV Methods of data collection

- Concept of Sampling and other concepts related to sampling
- Probability and non-probability samples, their characteristics and implications
- Tools of data collection, their types and attributes
- Designing research tools like questionnaire, observation, interviews, scales and test etc.

#### Module V Methods of data Analysis

- Analysis of various tools based on various tools
- Analysis of quantitative data and its presentation with tables and graphs

- c) Statistical tools and techniques of data analysis measures of central tendency, dispersion
- d) Decision making with hypothesis testing through parametric test and non parametric test

#### **Module VI Report writing and evaluation**

- a) Principles of report writing and guide line according to style manuals
- b) Writing and presentation of preliminary, main body and reference section of report
- c) Evaluation of research report
- d) Writing research article, abstract and synopsis

#### **Reference:**

- 1 Beashel, P., & Taylor, J. (1996). *Advance Studies in Physical Education and Sports*. U.K.: Thomas Nelson and Sons Ltd.
- 2 Best, J.W., & Kahn, J.K. (2006). *Research in Education (10<sup>th</sup> Ed.)*. Delhi : Dorling Kindersley (India) Pvt. Ltd.
- 3 Creswell, J.W. (2006) *Education Research : Planning Conducting & Evaluating Quantitative and Qualitative Research*. New Jersey : Pearson/Merill Prentice Hall.
- 4 Kamlesh, M.L.(2006). *Methodology of Research in Physical Education & Sports*. New Delhi : Metropolitan Book Co.
- 5 Lilly, a Chadha N.( 2001). *Research Methods for Sports Sciences*. New Delhi : Friends Publication.
- 6 Murthy, A.M. (2000). *Research Method in Physical Education, Sports and Exercise Science*. New Delhi : Friends publication.
- 7 Pathad, A.B., Sharma, M.P., & Davi D.N. (1999). *A handbook on Educational Research*. NCTE Publication.
- 8 Sharma, Y.P. (1997). *Physical Education and Research Methodology*. New Delhi : Publishing house .
- 9 Thomas, J.& Nelson, J.(1996). *Research Method in Physical Activity*. USA : Human Kinetic Publication.
- 10 Yobu, A.( 2008). *Research Process in Physical Education and Sports*. New Delhi : Friends publication.
- 11 Rothstein, A. (1985). *Research Design and Statistics for Physical Education*. New Jersey : Prentice-hall, inc. Englewood cliffs Publication.

## Course -II Computer Application in Physical Education and Sports

(06 credits)

The research scholar will be provided atleast 12 hours hand on experiences of computer application including the general and specific applications as mentioned below:

### Module: I General Application

- a) MS Word: Save documents as file, arrange the file in folder, print, formatting, insert, page layout, reference (citation and bibliography), review (comments, tracking, compare), converting to pdf. etc.
- b) MS Excel: to use as a research database and other applications related to Research Topic, if any.
- c) MS Power Point Presentation

### Module: II Subject orientated computer Applications

- a) Use of Internet research activities
- b) Use of On-line Journals for research activities
- c) Using search engines, using INFLIBNET, JSTOR, PubMed, Springer etc. Using Virtual Libraries, communicating with scholars through lists, groups, and other internet resources helpful for scholastics activities.

### Reference:

1. Howitt, D., & Cramer, D. (2001). *A Guide to Computing Statistics*. London : Prentice Hall.
2. Leerkes, E.M. (2005). *SPSS Manual for Howell's Fundamental Statistics*. Australia: Thomson.
3. Flynn, Meredith & Rutkosky, Nita H. : *Advanced Microsoft office 2000*, BPB publication. New Delhi, 2000.
4. Gupta/Vikas : *Comdex computer course -kit* , Dreamtech, New Delhi, 2001.
5. Hergert, Douglas A. : *Excel for Windows' 95 Instant Reference*, Sybex Incorporated. 1992.
6. Hillman, David : *Multimedia Technology and Applications*, Delmar Publishers. New York,1998.
7. Nagpal, D.P. : *Computer Fundamentals*, Wheeler publishing, New Delhi, 2001.
8. Rathbone, Andy : *Windows for Dummies* , IInd ed. ,Comdex Computer Publications, New Delhi, 1997.
9. Sanders, Donald H. : *Computers Today*, McGraw Hill Book Co., New York ,1988.
10. Sinha, P.K. : *Computer Fundamentals: Concepts, Systems and Applications*, BPB publications, New Delhi, 1992.
11. Timothy J.O. Leavy and Linda : *Microsoft office 2000*.

**Course -III Area Based course work, Active Participation and Field work  
(06 credits)**

*In order to enable the researcher to proceed further for his/her doctoral research in particular area and developing his/her academic qualities and competencies required as a researcher the following course Work will be completed by him/her during the Semester -*

- a. Seminar/ Presentation of the research proposal on the topic selected by the researcher
- b. Seminar/ Presentation on the proposal of research methodology to be followed by the researcher
- c. Assignment writing (3000 words) based on the area of research selected by the researcher and presentation of the same
- d. Reviewing the relevant research work of atleast 05 other researchers and presentation of the same
- e. Attending workshops cumulatively for 06 days duration

**III. SCHEME OF EVALUATION**

**Course -I Research Methodology in Physical Education and Sports  
(100 Marks)**

1. One Assignment (3000 words) and presentation on given topic. (20 Marks)
2. Discussion on given topic of research methodology. (20 Marks)
3. Written examination for 60 marks based on the modules of the course.

**Course -II Computer Application in Physical Education and Sports  
(100 Marks)**

1. Preparing Power Point Presentation on a given topic which will be assessed by two examiners of the research center/ department. (25 Marks)
2. One assignment of Internet browsing of the information on given topic which will be assessed by two examiners of the research center/ department. (25 Marks)
3. Assignment on use of SPSS in data feeding, presentation and Analysis on given data which will be assessed by two examiners of the research center/ department. (25 Marks)
4. Assignment writing on a given topic in 3000 words, which will be assessed by the concerned guiding teacher. (25 Marks)

**Course -III Area Based course work, Active Participation and Field work  
(100 Marks)**

*The research scholar will be evaluated by the two examiners of the center/ department in case of the course content marked as a, b, c, and d for 20 marks each. In case of the content marked as 'e' the concerned guiding teacher will give marks out of 20 on the basis of the record/ certificate submitted by the scholar.*

**IMPORTANT NOTE: -**

1. *The record of the evaluation is to be maintained till the learner clears his/her PhD degree from the university.*
2. *Seven point scales will be followed for assigning the final grade. Learner should get minimum 'C' grade to qualify.*
3. *After completion of the course work guiding teacher will submit the certificate of completion of course work to the university in the following prescribed format:*

**Name of the Research Centre**

**Certificate**

This is to certify that Mr/Ms/Mrs...(Surname) .....  
(First name) .....(Second name)..... has been a regular learner of Ph.D. degree in Physical Education (Arts) with registration number ..... He/She attended the course work conducted at the recognized research centre/department from ..... to ..... during the year ..... He/She has successfully completed the Ph.D. course work prescribed by the University of Mumbai. He/She secured ..... grade in seven point scale.

Date :

Signature of Guiding Teacher

Signature of Head/Principal with Seal

(Name: )

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(Name: )

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