UNIVERSITY OF MUMBAI

No. UG/ 26 of 2018-19

CIRCULAR:-

Attention of the Principals of the Affiliated Colleges, the Head University Departments and Directors of the recognized Institutions in Faculty of Interdisciplinary Studies is invited to this office circular No.UG/344 of 2011, dated 10th October, 2011 relating to syllabus of Master of Philosophy.

They are hereby informed that the recommendations made by the Ad-hoc Board of Studies in Physical Education at its meeting held on 24th April, 2018 have been accepted by the Academic Council at its meeting held on 5th May, 2018 vide item No. 4.3 and that in accordance therewith, the revised syllabus for the M.Phil. in Physical Education has been brought into force with effect from the academic year 2018-19, accordingly. (The same is available on the University's website www.mu.ac.in).

MUMBAI-400 032 72ndJune, 2018 To

The Principals of the affiliated Colleges, the Head University Departments and Directors of the recognized Institutions in Faculty of Interdisciplinary Studies. (Circular No. UG/334 of 2017-18 dated 9th January, 2018.)

A.C/4.3/05/05/2018

No. UG/ 26 -A of 2018

MUMBAI-400 032 22nd June, 2018

Copy forwarded with Compliments for information to:-

- 1) The I/c Dean, Faculty of Interdisciplinary Studies,
- 2) The Chairman, Board of Studies in Physical Education,
- 3) The Director, Board of Examinations and Evaluation,
- 4) The Director, Board of Students Development,
- 5) The Professor-cum-Director, Institute of Distance and Open Learning (IDOL),
- 6) The Co-Ordinator, University Computerization Centre,

ulland

(Dr. Dinesh Kamble)

I/c REGISTRAR

(Dr. Dinesh Kamble) I/c REGISTRAR

UNIVERSITY OF MUMBAI

M.PHIL IN PHYSICAL EDUCATION OUTLINE

(With Effect From the year 2018-2019)

INTRODUCTION

The M. Phil. Degree shall have the status of an intermediate Degree between the first Post-Graduate Degree and the Doctorate Degree. It will have both research and course components and will give the student adequate background for advanced research.

Objectives:

1. To equip students with essential knowledge and skills required for taking up multidimensional responsibilities in colleges of education at the pre-primary and secondary level.

2. To prepare students through systematic study and research towards contributing to the development of educational literature and lending to the growth of education as a discipline.

3. To develop a set of core skills in students to work with efficiency in the areas of teacher education, technology of teaching, educational administration and supervision

4. To train students toconduct field based research studies including selection of research problems, sampling, and preparation of research tools and adoption of statistical methodologies.

5. To prepare professional administrators and supervisors for the position of responsibilities in the context of emerging perspectives in educational planning and supervisory services.

COURSE WISE CREDIT ASSIGNMENTS Master in Philosophy (M.Phil) in Physical Education

Course	Code	Hours	Marks (External)	Credit	Code	Hours	Marks (Internal)	Credit
Course I Research Methodology in Physical Education & Sports	MPhil01	48	80	4	MPhil01	24	20	2
Course II Statistical Application in Sports Sciences	MPhil02	48	80	4	MPhil02	24	20	2
Course III (Optional) Test, Measurement & Evaluation in Physical Education and Sports Sciences Sports Psychology in Physical Education Science of Exercise and Sports Training Application of Yogic Sciences in Physical Education & sports 	MPhil 03	48	80	4	MPhil 03	24	20	2
Course IV Dissertation	MPhil 04	72	80	6	MPhil 04		20	
Total		144	320	18		72	80	6

* Total Credits =24 (18 theory + 6 projects) * Total marks = 400 (240 external + 60 interna A learner should submit the two copies of dissertation to the University before the commencement of the University Examination. Each dissertation shall be examined by an external examiner appointed specifically for the purpose, by the board of Examination on the recommendation of the board of studies in Physical Education. Viva-voce examination on the dissertation will be held jointly by the external and internal examiners and the marks (out of 80) will be given by the external examiner , on the basis of dissertation and viva- voce performance . whereas the marks out of 20 will be given by the concern guiding teacher on the basis of the work done by the learner.

COURSE I

RESEARCH METHODOLOGY IN PHYSICAL AND SPORTS

UNIT-I : Basics Of Research

- a. Meaning Need, and Scope of Research in Physical Education
- b. Types and methods of Research
- c. Agencies promoting research and new trends in P.E.
- d. Research Scholarship, contemporary issues and Awards in research field

UNIT-II- Literature Search

a. Purpose of surveying related literature

- b. Selecting, Locating and Formulating research problem
- c.Library sources
- d. Allied and Critical literature

UNIT-III: Hypothesis, Sampling And Tools OF RESEARCH

- a.Types and formulation of Hypothesis
- b.Delimitations and Limitation f the study
- c. Sampling techniques
- d.Tools of research

UNIT-IV: Ethics In Research, Writing Research Report

- a.Plagiarism. Citations and Impact factor
- b Research publication
- c. Bibliography, Appendices and References
- d. Steps in writing a research report

References:

1. Best, J. W. & Kahn, J. V. (1995). Research in Education.(9th ed.). New Delhi: Prentice Hall 2. Clark, D. H. & Clark, H. H. (1979). Research process in Physical Education, recreation & health. Englewood Cliffs: prentice Hall

3. Johnson, B. & Christensen, L. (2008). Education Research, Quantitative, Qualitative and Mixed Approaches. (3rd ed.). Sage Publication: England

4. Thomas, J. R. & Nelson, J. K. (2001). Research Methods in Physical Education, (4th ed.). USA: Human Kinetics

COURSE II

COUERS II

STATISTICS IN PHYSICAL EDUCATION AND SPORTS RESEARCH

OBJECTIVES:

- To develop the understanding of statistics in physical education and sports.
- To understand the implications of statistics in physical education and sports.
- To develop understanding graphical representation of data.
- To develop understanding of data analysis and its interpretation.

I Introduction of Statistics

- a. Meaning, definition and need of statistics in Physical Education and Sports
- b. Important Functions of statistics in Physical Education and Sports
- c. Organization and tabulation of Discrete and Continues Data
- d. Graphical representation Histogram, Frequency Polygon and Frequency Curve

II Normal Probability Curve

- a. Meaning and importance Normal Probability Curve
- b. Important properties of Normal Curve
- c. Meaning, definition and Types of Skewness and Kurtosis
- d. Measurement of Skewness and Kurtosis

III Descriptive Analysis of Data

- Measurement of Central Tendency of Ungroup and Group Data: Mean, Median and Mode
- Measurement of Variability Ungroup and Group Data: Variance and Standard Deviation
- c. Measurement of Dispersion: Range, Quartile, Decile and Percentile
- d. Percentiles and Spearman's Rank Order Correlation Coefficient

IV Inferential Analysis of Data

- Concept and Interpretation of Inferential Statistical Measures: The Null
 Hypothesis, Degrees of freedom, Level of significance, Type I & Type II error,
 Standard Error of the Mean, Confidence Interval
- Parametric tools with Large Sample: One Sample, Independent Sample and Paired Sample Z-test
- c. Parametric tools with small Sample: One Sample, Independent Sample, Paired Sample t-test and One Way ANOVA
- d. Non-Parametric tools- Chi-square test of testing association between two attributes, Sign test, Mann Whitney U test

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- 3 Clark, H., & Charke, D.(1987). *Application of Measurement to Physical Education* (6th add). New Jersey : Prentice hall, Inc. Englewood cliffs.
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- 6 Kamlesh, M.L.(2006). *Methodology of Research in Physical Education & Sports*. New Delhi : Metropolitan Book Co.
- 7 Leerkes, E.M. (2005). *SPSS Manual for Howell's Fundamental Statistics*. Australia: Thomson.
- 8 Lilly, a Chadha N.(2001). *Research Methods for Sports Scientists*. New Delhi : Friends Publication.
- 9 Murthy, A.M. (2000). *Research Method in Physical Education, Sports and Exercise Science*. New Delhi : Friends publication.
- 10 Pathad, A.B., Sharma, M.P., & Davi D.N. (1999). *A handbook on Educational Research*. NCTE Publication.
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- 13 Thomas, J.& Nelson, J.(1996). *Research Method in Physical Activity*. USA : Human Kinetic Publication.
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- 17 पंडित, बी.बी. ;२००८ ज्रण्*शिक्षणातील संशोधन*. पुणे :नुतन प्रकाशन.
- 18 **संशोधन मार्गदर्शक मालिका. पथदर्शक अभ्यासाचे संशोधनात उपयोग. नाशिक**: यशवंतराव चव्हाण महाराष्ट्र मुक्त विद्यापीठ.
- 19 दांडेकर, वा.ना. ;२००७ ड*शैक्षणिक मुल्यमापन व संख्याशास्त्र*. पुणे : श्रीविद्या प्रकाशन.
- 20 भिंताडे, वि.रा. ;२००९ . शैक्षणिक संशोधन पध्दती. पुणे : नुतन प्रकाशन.

Course III (Optional)

TEST, MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION AND SPORTS (80 Marks)

OBJECTIVES:

- To understand the concept of Test, Measurement, Evaluation and Assessment Procedure in Physical Education and sports.
- To gain knowledge regarding selection, construction and administration of tests.
- To administer different test in Physical Education and sports.
- To understand the involvement of Test, measurement and evaluation in research activity as a means of professional development.

I. INTRODUCTION

- a) Meaning of test, Measurement and Evaluation in Physical Education and sports
- **b**) Need and Importance of test, Measurement and Evaluation in Physical Education and sports
- c) Technical Standards of a good test
- d) Administrative feasibility of a good test

II. CONSTRUCTION AND ADMINISTRATION OF TEST

- a) Classification of Test
- **b**) Administration of Test
- c) Principles of Knowledge test construction
- d) Principles of Sport skill test construction

III. ANTHROPOMETRIC, PHYSICAL FITNESS AND MOTOR FITNESS TEST

- a) Anthropometric tests
- **b**) Components of Physical Fitness and Health Related Physical Fitness
- c) Kraus- Weber Strength Test, Harward Step Test, Sit and Reach Test, Standing Broad
 Jump, Stork Stand Test, Nelson Hand Reaction Time Test
- d) Eye- Hand Coordination Test, Eye- Foot Coordination Test, Upper Limb Coordination test

IV. GENERAL MOTOR ABILITY TEST AND MOTOR EDUCABILITY TEST

- a) Philip's J.C.R. Test
- b) Barrow General Motor Ability Test
- c) Metheny Johnson Motor Educability Test
- d) IOWA Brace Motor Educability Test
- e) Sports Skill Test
- f) Psychological Testing
- g) Physiological Testing
- h) Socio- economical testing

Internal Assessment: (20 marks)

- 1. **Term Papers** (10 marks): Two and half hours theory paper as per the pattern of the semester end examination will be conducted for 80 marks, which will be converted in to marks out of 10.
- Projects on testing Variables: (10 marks): The scholar will be given any two projects on testing the variables of school / college students or athletes from the above mentioned Unit VI of skill and variables test and will prepare and submit the report.

REFERENCES:

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- 11. Nilgoose, Erle: "Evalation In Health Education And Physical Edocation", New York:Mcgra-Eill Book Co., Inc.

Course III (Optional)

PSYCHOLOGY OF PHYSICAL EDUCATION AND SPORTS

Objectives:

- 1. To develop understanding of the nature, scope and importance of Psychology of Physical Education and Sports.
- 2. To acquire the knowledge of Psychological facts for effective teaching and learning in Physical Education and Sports.
- 3. To understand the relationship between Individual differences, Personality and Sports Participation.
- 4. To gain knowledge regarding Psychology of Competition as well as Psychological for enhancement of Sports Performance.
- 5. To gain knowledge regarding the application of Psychological tests in Physical Education and Sports through various research tools.

Unit I Psychology of Physical Education and Sports

- a. Nature, Scope and importance of Psychology in Physical Education and Sports.
- b. Concept and Principles of Growth and Development.
- c. Individual differences with respect to Physical Education and Sports.
- d. Concept of Play and Play Theories.

Unit II Learning in Physical Education and Sports

- a. Learning Process, Factors affecting Learning: Maturation, Attention, Fatigue, and Motivation.
- b. Theories of Learning:
 - i. Theories of Association: Trial & Error theory (E.L.Thorndike), Classical Conditioning – (Pavlov), Operant Conditioning –(Skinner)
 - ii. Cognitive theory: Learning by insight (Wolfgang Kohler)

iii.Social learning Theory: Bandura.

- c. Transfer of Learning
- d. Concept of Motor Skill Learning, Information Processing Models, principles of Motor Skill Acquisition.

Unit.III Personality and Motivation

- a. Concept Of Personality, Dimensions Of Personality, Factors Affecting The Development Of Personality, Theories Of Personality
- b. Comparison Of Personality Of Sportsman And Non-Sports Man, Assessment Of Personality.
- c. Meaning Of Motivation, Motives, Drive, Need, Level Of Aspiration,

Achievement Motivation.

d. Theories & Dynamics Of Motivation In Sports.

Unit IV Psychology of Competition

- a. Psychological factors affecting Sports Performance viz., Stress, Anxiety, Aggression
- b. Group Dynamics, Team Cohesion and Leadership in Sports.
- c. Sports audience and their effect on the performance of the sportsman.
- d. Psychological Testing: Stress, Competitive Anxiety, Aggression, Personality, Motivation, Team Cohesion, Leadership.

Reference:

- Barrow, B., & Posemary M, (1989). *Practical Measuremennt in Physical Education and Sports (4th Edition)*. London: Lea & Fabiza Philadelphia.
- Beashel, P., & Taylor, J. (1996). Advance studies in Physical Education &Sports, U.K.:Thomas Nelson ans sons Ltd.
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- 11. Singer, Rober N. *Motor Learning and Human Performance*, New York : Mc-Millan Publishing co-Inc. 1975.
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- 13. Withing K. Harmon & Others : *Personality and performance*. Henry Kempton Publishers, London, 1973.

Course III (Optional)

SCIENCE OF EXERCISE AND SPORTS TRAINING

OBJECTIVES:

- 1. To understand the concept, principles and forms of sports training.
- 2. To understand the scientific principles of training and coaching.
- 3. To make able to apply scientific principles of training and coaching.
- 4. To understand the training methods of fitness factors and skill techniques, tactics and strategies.
- 5. To understand the methods of planning and periodization of training.
- 6. To understand the use of evaluation of training.

I. Sports Training & Coaching:

- a. Meaning and Definitions of Training and Coaching.
- b. Aims, tasks and characteristics of Sports training.
- c. Principles of sports training.
- d. Forms of Sports Training.

II. Training Load:

- a. Important Features of training load (Intensity, Density, Duration and Frequency).
- b. Principles of training load.
- c. Relationship between load and adaptation, conditions of adaptations.
- d. Principles of over load, causes and symptoms, tackling of overload.

III. Conditioning of Individual and Team Sports:

- a. Concept and need of physical fitness, motor fitness and conditioning.
- b. Basic methods of conditioning.
- c. Training method: Strength, endurance, flexibility, agility and speed.

IV. Planning, Periodisation and Evaluation of Training:

- a. Importance of Planning.
- b. Principles of Planning.
- c. Systems of Planning.
- d. Periodisation and its types.
- e. Contents for various periods of training.
- f. Evaluation of training (criteria, techniques and presentation format)

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- 1. Seashel, Paul and Taylar John: Advanced Studies in Physical Education and Sports, Thomas Nelson and Sons Ltd., Nelson house, Surrey, U.K., 1996.
- 2. Bunn, J.W.: The Basketball coach, Guide to success, New York, Prentice Hall, 1961.
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- 4. Dick, Frank W.: Sports Training Principles, 7 lighten place, lighten road, London NW 52QL, Henry Kimpten publisher, Ltd., 1980.
- 5. Fuoss, Donald E & R.J. Troppmann: Effective coaching, Macmillan publishing company, New York, 1985.
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- 9. Jensen, Ralph J.: The coach, W.b. Saunders company, Philadelphia, London, 1979.
- 10. L. Matyoyev: Foundation and Sports Training, Fizkultura, Sports publishers, 1977, Progress publisher (English translation) 1981.

Course III (Optional)

Application of Yogic Sciences in Physical Education & sports

OBJECTIVES:

- 1. To understand the concept and nature of Yoga along with its historical background.
- 2. To understand the common grounds of Yoga and Physical Education.
- 3. To gain knowledge regarding the application of Yoga to Physical Education and Sports.
- 4. To understand the Anatomy and Physiology of asana and pranayama's.
- 5. To gain knowledge regarding the effects of yogic exercises on the body and health.

UNIT I

Introductionand History of Yoga:

- a. Purpose, scope and limitations of the subject.
- b. Historical background of the development of Yoga.
- c. Concept of Yoga in the light of various definitions.

UNIT II

Yoga, Physical Education and Integration of Personality:

- a. Aims and objectives of Yoga and Physical Education on the basis of broad concept of Education as a common ground.
- b. Means of Yoga and Physical Education-their comparison, Salient points.
- c. Problem of Integration of personality dealt with in Yoga.

UNIT III

Exercise, Yoga and Effect of Yogic Exercises:

- a. Concept of exercise in Physical Education and its comparison with yogic exercise.
- b. Principles governing various exercises in Yoga like Asana, Pranayama, bandha, Mudra, Kriya and Meditation.
- c. Emotional stability and yogic exercises.
- d. Effects of various yogic exercises on different systems of the body.

UNIT IV

Application of Yoga and its Anatomy and Physiology:

- a. Application of Yoga in Sports and Physical Education.
- b. Therapeutical application of Yoga.
- c. Anatomy and Physiology of Asanas and Pranayamas.
- d. Yoga for stress management.

REFERENCES:

- 1. Aurobindo: The Synthesis of Yoga, Arbindo Ashram, Pondichery, 1972.
- 2. Bhole M.V.: Abstracts and Bibliography of Articles on yoga, Kaivalyadhama, Lonavla, 1985.
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