



DEVI AHILYA VISHWAVIDYALAYA, INDORE

School of Physical Education

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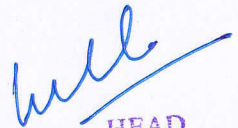
Minutes of the Meetings and Changes in Syllabus



SCHOOL OF PHYSICAL EDUCATION

1.1.2 Percentage of programmes where syllabus revision was carried out during the last five years (20)

Programme Code	Programme name	Name of the Department	Year of Introduction	Year of revision	Percentage of Syllabus content added or replaced	Link of the relevant document
PE9Z	Ph.D.	School of Physical Education		July 17 - June 18	100	http://uid.dauniv.ac.in/NAC/profile/docs/25-10-2018_16-55-32Ph.D._Scheme_and_Syllabus 01.01.17 (Latest).pdf
PE4A	B.P.E.S.	School of Physical Education	1994	Feb 14 - June 14	10	http://uid.dauniv.ac.in/NAC/profile/docs/25-10-2018_16-48-121.1.2 SOPE BPES.pdf
PE5A	M.P.Ed.	School of Physical Education	1995	July 15 - June 16	80	http://uid.dauniv.ac.in/NAC/profile/docs/25-10-2018_16-49-361.1.2 M_P_Ed_Scheme_Syllabus_UTD (New 2016-17).pdf
PE8X	M.Phil.	School of Physical Education		July 17 - June 18	100	http://uid.dauniv.ac.in/NAC/profile/docs/25-10-2018_16-55-32Ph.D._Scheme_and_Syllabus 01.01.17 (Latest).pdf


HEAD
School of Studies in Physical Education
Devi Ahilya University
INDORE (M.P.)

SCHOOL OF PHYSICAL EDUCATION

BPES REVISED SYLLABUS

B.P.E.S. Vth Semester

Part –A (Theory Papers)		No. of Classes per week			No. of Credits	Faculty Name
Paper Code	Nomenclature	Lectures	Tutorials	Practicals /Project Work		
T-13	Management of Physical Education	03			03	
T-14	Gym Management and Fitness Training	03			03	
T-15	Sports Specialization	03			03	
Part – B (Practicals)						
P-17	Table Tennis	03			03	
P-18	Kabbadi	03			03	
P-19	Sports Specialization (Practical Skill)	03			03	
P-20	Conditioning & Match Practice	05		05	08	
Part –C (Viva-Voce)						
C-05	Comprehensive Viva-voce				04	

Total Credits - 30

B.P.E.S. VIth Semester

Part –A (Theory Papers)		No. of Classes per week			No. of Credits	Faculty Name
Paper Code	Nomenclature	Lectures				
T-16	Test and Measurement in Physical Education	03			03	
T-17	Correctives and Rehabilitation in Physical Education	03			03	
T-18	Sports Specialization	03			03	
Part – B (Practicals)						
P-21	Kho-Kho	03			03	
P-22	Tennis	03			03	
P-23	Sp. Specialization (Coaching Lesson)	03			03	
P-24	Conditioning & Match Practice	05		05	08	
Part –C (Viva-voce)						
C-06	Comprehensive Viva-voce				04	

Total Credits - 30

BPES SEMESTER V

CRICKET SPECIALIZATION

1. Introduction of the game and historical development with special reference to India.
2. Important tournament held at national and International levels and distinguished personalities related to the game.
3. National and International bodies ,controlling the sports/game and their function
4. Fundamental Skills.
 - a. Batting
 - (i) Forward defensive stroke
 - (ii) Backward defensive stroke.
 - b. Bowling
 - (i) Simple bowling
 - c. Fielding
 - (i) Defensive fielding –Orthodox, Unorthodox.
 - (ii) Offensive Fielding .
 - d. Catching
 - (i) High Catching.
 - (ii) Slip Catching.
 - e. Stopping and throwing techniques.
 - f. Wicket keeping technique.
5. Advanced Skill
 - a. Batting
 - (i) Forward defensive stroke
 - (ii) Backward defensive stroke
 - (iii) Forward off drive
 - (iv) Forward on drive.
 - b. Bowling.
 - (i) Simple bowling techniques.
 - (ii) Difference between pace.
 - (iii) Bowling and spin bowling : Off and leg spin bowling.
 - c. Fielding : Different techniques of fielding and its importance.
 - d. Catching : Different types of catching ,its techniques and importance.
 - e. Stopping and throwing : Different techniques and its importance.
 - f. Wicket Keeping : Different techniques and their implications.
6. Rules and their interpretations and duties of officials.

References:

- Micharda ,Barry ,Barry Richard Cricket.London Pelhon Books, 1979.
- Mankar , Vinno, How to play Cricket. Rupa and Company, 1976.
- Greig ,Tony , Greug in Cricket .Bombay, S. Publication, 1975.
- John Snow ,Cricket Fondon : William Dushmanby Publisher Ltd. 1973.

BPES SEMESTER V

BADMINTON SPECIALIZATION

Unit I - History of Badminton

- (a) In India
- (b) In Asia
- (c) In World

Unit II – Laws of Badminton

- (a) Laws of Badminton with interpretations.
- (b) Recommendations to technical officials and their duties.
- (c) Terminologies in badminton

Unit III – Fixture/Draw in Badminton

- (a) Fixture for inter collegiate Badminton Competitions.
- (b) University – Zonal and All India University Tournaments

Unit IV – Fundamental Skills

- (a) Racket and Shuttle Grips
- (b) Serricsand Rehires
- (c) Forehand and backhand stokes – smash over and clear drops under arms clear drive and net shot.
- (d) Basic footwork

Unit IV - Basic Tactics Strategy

- (a) Singles – Systems of Play
- (b) Doubles – Systems of Play
 - Front and Back
 - Side by Side
 - Rotation

Unit V - warming up

- (b) Specific Exercises of warm up and conditioning.
- (a) General and Specific warm up.
- (c) Fundamental Training drills in Badminton.

References:

Jake Downey, Badminton for Schools.

BPES SEMESTER V

ATHLETICS SPECIALIZATION

Unit – I History

- a. Historical review of various athletic events (up to 2000)
- b. Historical review of various sports awards to athletes (up to 2000)

Unit –II Federation and Tournaments

- a. IAAF Council and committees
- b. International Competitions

Unit – III Training Methods

- a. Warming –up
- b. Training Loads

Unit – IV Skills and Techniques

- a. Crouch Start
- b. Triple Jump
- c. Fosbury Flop technique of High Jump
- d. Hitch kick technique of Long Jump
- e. Scientific basis of above techniques

Unit – V : Officiating Playfields and Equipments

- a. Basic rules of sprints, Long Jump, High Jump, and Triple Jump.
- b. Mechanics of Officiating All track Events, Walking and Road races (Marathon and Half Marathon)
- c. Equipment and specifications of all track related equipments
- d. Layouts and maintenances of all track events.

BPES SEMESTER V

GYMNASTICS SPECIALIZATION

- Unit-I History of Gymnastics in world:- Earliest History & Middle age.**
A Brief History of Greek, Sweden, Denmark Germany ,France.
- Unit - II**
A Organization of : F.I.G.
B Value of gymnastics, how gymnastics can be popularise in India.
- Unit - III Training Methods**
A Warming up (General and specific)
B Training load.
- Unit - IV Techniques:**
Teaching of Advance skills and techniques (at least three on each apparatus)
A Specification of apparatus used for men and women.
B Lay out and maintenance of gymnasium.
- Unit - V**
A Purpose and goal of code of points
B Evaluation of the Exercise.

BPES SEMESTER V

HOCKEY SPECIALIZATION

Unit I - Origin of Hockey – Ancient hockey, modern hockey, hockey in India.

Unit II - History of Major International and National Hockey Championships

- a. World Cup Hockey, Olympic Games, Championship trophy and Asia Cup.
- b. Rangaswami Cup, Benghton Cup.

Unit III - Basic and Advance Skills of Hockey -

- (a) Rolling, Pushing, Hitting, Stopping.
- (b) Dribbling, Receiving, Flick, Scoop, Dodging and Tackling.

Unit IV - Meaning of Sports Training. Definition of Sports Training. Aims of Sports Training. Objectives of Sports Training. Characteristics of Sports Training. Principles of Sports Training.

Unit V-

- (a) Drills and Test in Hockey.
- (b) Construction, layout and maintenance of playfields & equipments.

BPES SEMESTER V

FOOTBALL SPECIALIZATION

Unit - I History of football (National and International)

Unit - II Organization of federation and association
(District, State, National and International)

Unit –III Techniques

a. Advance skill and techniques

b. General mechanical principals applied to skill techniques

Unit –IV Rules and their interpretations

Unit –V Layout and maintenance of playfields and equipments

BPES SEMESTER VI

CRICKET SPECIALIZATION

Unit - I

Rules and then interpretations.

Unit - II

(A) Standard one day and Twenty- Twenty and Test Match Playing Conditions.

(B) All advance skills.

Unit - III

Officiating – Duties of Umpires, Referees and Scorers -

(A) Before the Match.

(B) During the Match.

(C) During the intervals.

(D) Joint Desiccation.

(E) After the Match.

Unit - IV

Lay out, construction and maintenance of cricket field and markings.

Unit - V

Awards and Personalities

(A) Sunil Gawaskar

(B) M.S. Dhoni

(C) Sandhya Agarwal

(D) Ajit Wadekar

(E) B. Bedi

References:

1. Frank Tyson, Manual for cricket coaching.
2. Tom Smith umpiring and scoring
3. E.B. Elbloria Cricket Coaching.

BPES SEMESTER VI

BADMINTON SPECIALIZATION

Unit I- Awards and Personalities

(a) Awards- Rajiv Gandhi Khal Ratna, Padma Shri, Arjuna Award, Dronacharya Award.

(b) Prakash Padukone, Gopichand, Dinesh Khanna, Nanda Natekar Syed Modi, Ani Ghia, Meena Shah, Mohmmad Arif.

Unit II- Management

(a) Construction of Badminton Hall.

(b) Court marking and its maintenance

(c) Flooring, height, lighting system, space around courts surroundings and umpire's chair.

Unit III- Officiating in Badminton

(a) Fixtures for District/State/National/International Open Tournaments.

(b) Instructions for filling up the score sheet for singles, doubles and mixed doubles.

Unit IV- Advanced skills

(a) Round the Head strokes- clear, smarth and drop.

(b) Jump Smarsh, Half and sliced Net dribble.

(c) Advanced Footwork.

Unit V- Tactics and Strategy

(a) Mixed Doubles

(b) Lead up Games, Recreation Games in Badminton.

References:-

1. Jake Downey, Better Badminton for All.

BPES SEMESTER VI

ATHLETICS SPECIALIZATION

Unit – I : History

- a. Historical review of various athletic events (after 2000)
 - a. Historical review of various sports awards to athletes (after 2000)

Unit –II : Federation and Tournaments

- a. Anti – Doping Rules
- b. Prohibited Agents
- c. Procedure of Testing

Unit – III: Training Methods

- a. Training of Speed
- b. Training of Endurance
- c. Training of Strength

Unit – IV: Skills and Techniques

- a. Techniques of shotput
- b. Technique of Discus throw
- c. Technique of Javelin Throw
- d. Techniques of Baton exchange
- e. Theoretical concept of Techniques of Hammer Throw and of Pole Vault
 - a. Scientific basis of above techniques

Unit – V : Officiating Playfields and Equipments

- a. Basic rules of Relay Race, Shotput, Discus throw, Javelin Throw, Hammer throw and Pole Vault.
- b. Mechanics of Officiating All throws, Pole Vault and Relay Races.
- c. Equipment and specifications of all throws, pole vault and relay races related equipments.
- d. Layouts and maintenances of all Field events.

BPES SEMESTER VI

GYMNASTICS SPECIALIZATION

Unit - I

- A History of gymnastics in India.
- B Brief History of France, U.S.S.R., England, U. S.A.

Unit - II

- A Organization of : G.F.I.
- B Safety and spotting techniques.

Unit - III Training Methods

- A Training of strength.
- B Training of speed.
- C Training of Endurance.
- D Training of Feasibility.
- E Training of Co-ordinative abilities.

Unit - IV General mechanical principles applied to skills/techniques.

Unit -V

- A Competition I, II & III.
- B Table of general faults & penalties.
- C Regulations for judge's structure, composition and function of juries.

BPES SEMESTER VI

HOCKEY SPECIALIZATION

Unit I- Organizations

- (a) F.I.H. structure and functions.
- (b) H.I.F. structure and functions.

- Unit II**
- (a) Fitness and Coaching in Hockey.
 - (b) Skill acquisition.
 - (c) System of Play.

Unit III- Mechanical and muscular analysis of skills

Unit IV- Mechanics of officiating.

Unit V- Rules and their interpretation.

BPES SEMESTER VI

FOOTBALL SPECIALIZATION

Unit - I Organization

- a. FIFA structure and function
- b. AIFF structure and functions

Unit – II Training Method

- a. Warming up (General and Specific)
- b. Training load
- c. Training as motor qualities (General)

Unit – III Tactics

- a. Advance skill and tactics

Unit- IV Basic and advance skill of football

- a. Various types of receiving
- b. Various types of kicking
- c. Throwing in
- d. Dribbling

Unit-V

- a. Fitness and coaching in football
- b. System of play

SCHOOL OF PHYSICAL EDUCATION

MPed REVISED SYLLABUS

M.P.Ed. SEMESTER – I

Part – A (Theory Papers)		No. of classes per week			No. of Credits
		Lectures	Tutorials	Practical / Project Work	
MPEd 101	Research Process in Physical Education and Sports Sciences	04	-	-	04
MPEd 102	Physiology of Exercise	04	-	-	04
MPEd 103	Test, Measurement and Evaluation in Physical Education	04	-	-	04
MPEd 104	Sports Journalism and Mass Media	04	-	-	04
MPPC 101	Marking of Playfields	-	05	-	05
MPPC 102	Conditioning and Match Practice	-	-	10	05
MPCV101	Comprehensive Viva-voce	-	-	-	04

Total Credits **30**

M.P.Ed. SEMESTER – II

Part – A (Theory Papers)		No. of classes per week			No. of Credits
		Lectures	Tutorials	Practical / Project Work	
MPEd 201	Applied Statistics in Physical Education and Sports	04	-	-	04
MPEd 202	Sports Biomechanics and Kinesiology	04	-	-	04
MPEd 203	Athletic Care and Rehabilitation	04	-	-	04
MPEd 204	Sports Technology	04	-	-	04
MPPC 201	Officiating and Coaching	-	05	-	05
MPPC 202	Conditioning & Match Practice	-	-	10	05
MPCV201	Comprehensive Viva-voce	-	-	-	04

Total Credits **30**

M.P.Ed. SEMESTER – III

Part – A (Theory Papers)		No. of classes per week			No. of Credits
		Lectures	Tutorials	Practical / Project Work	
MPEd 301	Scientific Principles of Sports Training	04	-	-	04
MPEd 302	Sports Medicine	04	-	-	04
MPEd 303	Physical Fitness and Wellness	04	-	-	04
MPEd 304	Sports Specialization	03	-	-	03
MPPC 301	Internship and Project	-	-	06	03
MPPC 302	Sports Specialization (Practical Skills)	-	-	05	03
MPPC 303	Conditioning & Match Practice	-	-	10	05
MPCV301	Comprehensive Viva-voce	-	-	-	04

Total Credits 30

M.P.Ed. SEMESTER – IV

Part – A (Theory Papers)		No. of classes per week			No. of Credits
		Lectures	Tutorials	Practical / Project Work	
MPEd 401	Sports Psychology	04	-	-	04
MPEd 402	Health Education and Sports Nutrition	04	-	-	04
MPEd 403	Sports Management OR Dissertation	04	-	-	04
MPEd 404	Sports Specialization	03	-	-	03
MPPC 401	Theory Teaching Lessons	-	-	05	03
MPPC 402	Sports Specialization (Coaching Lessons)	-	-	05	03
MPPC 403	Conditioning & Match Practice	-	-	10	05
MPCV401	Comprehensive Viva-voce	-	-	-	04

Total Credits 30

M.P.Ed (Semester-I)
PAPER-I

MPEd-101 RESEARCH PROCESS IN PHYSICAL EDUCATION AND SPORTS SCIENCES

UNIT I - 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, Qualities of a good researcher.

UNIT II - Methods of Research

Descriptive Methods of Research; Survey Study, Case study, Introduction of Historical Research, Steps in Historical Research, Sources of Historical Research: Primary Data and Secondary Data, Historical Criticism: Internal Criticism and External Criticism.

UNIT III - Experimental Research

Experimental Research – Meaning, Nature and 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 IV - Sampling

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

UNIT V - Research Proposal and Report

Chapterization of Thesis / Dissertation, Front Materials, Body of Thesis – Back materials. Method of Writing Research proposal, Thesis / Dissertation; Method of writing abstract and full paper for presenting in a conference and to publish in journals ,Mechanics of writing Research Report, Footnote and Bibliography writing.

REFERENCE :

Best J. W (1971) Research in Education, 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; Illonosis; Human Kinetics; Kamlesh, M. L. (1999) Reserach Methodology in Physical Education and Sports, New Delhi Moses, A. K. (1995) Thesis Writing Format, Chennai; Poompugar Pathippagam 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); Friend Publication, New Delhi

M.P.Ed (Semester-I)

PAPER-II

MPEd-102 PHYSIOLOGY OF EXERCISE

UNIT I - Skeletal Muscles and Exercise

Macro & Micro Structure of the Skeletal Muscle, Chemical Composition. Sliding Filament theory of Muscular Contraction. Types of Muscle fibre. Muscle Tone, Chemistry of Muscular Contraction - Heat Production in the Muscle, Effect of exercises and training on the muscular system.

UNIT II - Cardiovascular System and Exercise

Heart Valves and Direction of the Blood Flow - Conduction System of the Heart - Blood Supply to the Heart - Cardiac Cycle - Stroke Volume - Cardiac Output - Heart Rate - Factors Affecting Heart Rate - Cardiac Hypertrophy - Effect of exercises and training on the Cardio vascular system.

UNIT III - Respiratory System and Exercise

Mechanics of Breathing - Respiratory Muscles, Minute Ventilation - Ventilation at Rest and During Exercise. Diffusion of Gases - Exchange of Gases in the Lungs - Exchange of Gases in the Tissues - Control of Ventilation - Ventilation and the Anaerobic Threshold. Oxygen Debt - Lung Volumes and Capacities - Effect of exercises and training on the respiratory system.

UNIT IV - Metabolism and Energy Transfer

Metabolism - ATP - PC or Phosphagen System - Anaerobic Metabolism - Aerobic Metabolism - Aerobic and Anaerobic Systems during Rest and Exercise. Short Duration High Intensity Exercises - High Intensity Exercise Lasting Several Minutes - Long Duration Exercises.

UNIT V - Climatic conditions and sports performance and ergogenic aids Variation in Temperature and Humidity - Thermoregulation - Sports performance in hot climate, Cool Climate, high altitude. Influence of: Amphetamine, Anabolic steroids, Androstenedione, Beta Blocker, Choline, Creatine, Human growth hormone on sports performance. Narcotic, Stimulants: Amphetamines, Caffeine, Ephedrine, Sympathomimetic amines. Stimulants and sports performance.

Note: Laboratory Practicals in Physiology be designed and arranged internally.

REFERENCES:

Amrit Kumar, R, Moses. (1995). Introduction to Exercise Physiology. Madras: Poompugar Pathipagam.

Beotra Alka, (2000) Drug Education Handbook on Drug Abuse in Sports: Sports Authority of India Delhi.

Clarke, D.H. (1975). Exercise Physiology. New Jersey: Prentice Hall Inc., Englewood Cliffs. David, L Costill. (2004). Physiology of Sports and Exercise. Human Kinetics.

Fox, E.L., and Mathews, D.K. (1981). The Physiological Basis of Physical Education and Athletics.

Philadelphia: Sanders College Publishing. Guyton, A.C. (1976). Textbook of Medical Physiology. Philadelphia: W.B. Sanders co. Richard, W. Bowers. (1989). Sports Physiology. WMC: Brown Publishers. Sandhya Tiwaji. (1999). Exercise Physiology. Sports Publishers. Shaver, L. (1981). Essentials of Exercise Physiology. New Delhi: Subject Publications. Vincent, T. Murche. (2007). Elementary Physiology. Hyderabad: Sports Publication. William, D. Mc Aradle. (1996). Exercise Physiology, Energy, Nutrition and Human Performance.

Philadelphia: Lippincott Williams and Wilkins Company.

M.P.Ed (Semester-I)

PAPER -III

MPEd-103 TEST, MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION

UNIT I - Introduction

Meaning and Definition of Test, Measurement and Evaluation. Need and Importance of Measurement and Evaluation. Criteria for Test Selection - Scientific Authenticity. Meaning, definition and establishing Validity, Reliability, Objectivity. Norms - Administrative Considerations.

UNIT II - Motor Fitness Tests

Meaning and Definition of Motor Fitness. Test for Motor Fitness; Indiana Motor Fitness Test (for elementary and high school boys, girls and College Men) Oregon Motor Fitness Test (Separately for boys and girls) - JCR test. Motor Ability; Barrow Motor Ability Test - Newton Motor Ability Test - Muscular Fitness - Kraus Weber Minimum Muscular Fitness Test.

UNIT III - Physical Fitness Tests

Physical Fitness Test: AAHPERD Health Related Fitness Battery (revised in 1984), ACSM Health Related Physical Fitness Test, Roger's physical fitness Index. Cardio vascular test; Harvard step test, 12 minutes run / walk test, Multi-stage fitness test (Beep test)

UNIT IV - Anthropometric and Aerobic-Anaerobic Tests

Physiological Testing: Aerobic Capacity: The Bruce Treadmill Test Protocol, 1.5 Mile Run test for college age males and females. Anaerobic Capacity: Margaria-Kalamen test, Wingate Anaerobic Test, Anthropometric Measurements: Method of Measuring Height: Standing Height, Sitting Height. Method of measuring Circumference: Arm, Waist, Hip, Thigh. Method of Measuring Skin folds: Triceps, Sub scapular, Suprailiac.

UNIT V - Skill Tests

Specific Spots Skill Test: Badminton: Miller Wall Volley Test. Basketball: Johnson Basketball Test, Harrison Basketball Ability Test. Cricket: Sutcliff Cricket test. Hockey: Friendel Field Hockey Test, Harban's Hockey Test, Volleyball, Russel Lange Volleyball Test, Brady Volleyball Test. Football: Mor-Christian General Soccer Ability Skill Test Battery, Johnson Soccer Test, Mc-Donald Volley Soccer Test. Tennis: Dyer Tennis Test.

Note: Practicals of indoors and out-door tests be designed and arranged internally.

REFERENCES :

Authors Guide (2013) ACSM's Health Related Physical Fitness Assessment Manual, USA: ACSM Publications

Collins, R.D., & Hodges P.B. (2001) A Comprehensive Guide to Sports Skills Tests and

Measurement (2nd edition) Lanham: Scarecrow Press Cureton T.K. (1947) Physical Fitness Appraisal and Guidance, St. Louis: The C. Mosby Company Getchell B (1979) Physical Fitness A Way of Life, 2nd Edition New York, John Wiley and Sons, Inc Jenson, Clayne R and Cynt ha, C. Hirst (1980) Measurement in Physical Education and Athletics,

New York, Macmillan Publising Co. Inc Kansal D.K. (1996), "Test and Measurement in Sports and Physical Education, New Delhi: DVS

Publications

Krishnamurthy (2007) Evaluation in Physical Education and Sports, New Delhi; Ajay Verma Publication

Vivian H. Heyward (2005) Advance Fitness Assessment and Exercise Prescription, 3rd Edition,

Dallas TX: The Cooper Institute for Aerobics Research Wilmore JH and Costill DL. (2005) Physiology of Sport and Exercise: 3rd Edition. Champaign IL:

Human Kinetics

Yobu, A (2010), Test, Measurement and Evaluation in Physical Education in Physical Education and Sports. New Delhi; Friends Publicat

M.P.Ed (Semester-I)

PAPER-IV

MPEd-104 SPORTS JOURNALISM AND MASS MEDIA

UNIT I Introduction

Meaning and Definition of Journalism, Ethics of Journalism - Canons of journalism- Sports Ethics and Sportsmanship - Reporting Sports Events. National and International Sports News Agencies.

UNIT II Sports Bulletin

Concept of Sports Bulletin: Journalism and sports education - Structure of sports bulletin - Compiling a bulletin - Types of bulletin - Role of Journalism in the Field of Physical Education: Sports as an integral part of Physical Education - Sports organization and sports journalism -General news reporting and sports reporting.

UNIT III Mass Media

Mass Media in Journalism: Radio and T.V. Commentary - Running commentary on the radio -Sports expert's comments. Role of Advertisement in Journalism. Sports Photography: Equipment-Editing - Publishing.

UNIT IV Report Writing on Sports

Brief review of Olympic Games, Asian Games, Common Wealth Games World Cup, National Games and Indian Traditional Games. Preparing report of an Annual Sports Meet for Publication in Newspaper. Organization of Press Meet.

UNIT -V Journalism

Sports organization and Sports Journalism - General news reporting and sports reporting. Methods of editing a Sports report. Evaluation of Reported News. Interview with and elite Player and Coach.

Practical assignments to observe the matches and prepare report and news of the same; visit to News Paper office and TV Centre to know various departments and their working. Collection of Album of newspaper cuttings of sports news.

REFERENCE:

Ahiya B.N. (1988) Theory and Practice of Journalism: Set to Indian context Ed3. Delhi : Surjeet Publications

Ahiya B.N. Chobra S.S.A. (1990) Concise Course in Reporting. New Delhi: Surjeet Publication

Bhatt S.C. (1993) Broadcast Journalism Basic Principles. New Delhi. Haranand Publication

Dhananjay Joshi (2010) Value Education in Global Perspective. New Delhi: Lotus Press. Kannan K

(2009) Soft Skills, Madurai: Madurai: Yadava College Publication Mohit Chakrabarti (2008): Value Education: Changing Perspective, New Delhi: Kanishka Publication.

Padmanabhan. A & Perumal A (2009), Science and Art of Living, Madurai: Pakavathi Publication

Shiv Khera (2002), You Can Win, New Delhi: Macmillan India Limited. Varma A.K. (1993)

Journalism in India from Earliest Times to the Present Period. Sterling publication Pvt. Ltd.

Venkataiah. N (2009) Value Education,- New Delhi: APH Publishing Corporation. 43

Practical

MPPC -101 MARKING OF PLAYFIELDS

The students of M.P.Ed - I Semester need to be develop proficiency in marking of playfields of selected games. In view of this, the students shall be provided practical knowledge of playfield's marking.

Devi Ahilya Vishwavidyalaya, Indore

M.P.Ed. Two Year (Four Semester)

Syllabus

Second Semester

**Registrar
Devi Ahilya Vishwavidyalaya , Indore
Indore – 452001 (M.P.)**

M.P.Ed (Semester-II)

PAPER -I

MPEd-201 APPLIED STATISTIC IN PHYSICAL EDUCATION & SPORTS

UNIT I - Introduction

Meaning and Definition of Statistics. Function, need and importance of Statistics. Types of Statistics. Meaning of the terms, Population, Sample, Data, types of data. Variables; Discrete, Continuous. Parametric and non-parametric statistics.

UNIT II - Data Classification, Tabulation and Measures of Central Tendency
Meaning, uses and construction of frequency table. Meaning, Purpose, Calculation and advantages of Measures of central tendency - Mean, median and mode.

UNIT III - Measures of Dispersions and Scales

Meaning, Purpose, Calculation and advances of Range, Quartile, Deviation, Mean Deviation, Standard Deviation, Probable Error. Meaning, Purpose, Calculation and advantages of scoring scales; Sigma scale, Z Scale, Hull scale

UNIT IV - Probability Distributions and Graphs

Normal Curve. Meaning of probability- Principles of normal curve - Properties of normal curve. Divergence form normality - Skewness and Kurtosis. Graphical Representation in Statistics; Line diagram, Bar diagram, Histogram, Frequency Polygon, Ogive Curve.

UNIT V - Inferential and Comparative Statistics

Tests of significance; Independent "t" test, Dependent "t" test - chi - square test, level of confidence and interpretation of data. Meaning of correlation - co-efficient of correlation - calculation of co-efficient of correlation by the product moment method and rank difference method. Concept of ANOVA and ANCOVA.

Note : It is recommended that the theory topics be accompanied with practical, based on computer software of statistics.

REFERENCE

Best J. W (1971) *Research in Education*, New Jersey; Prentice Hall, Inc

Clark D.H. (1999) *Research Problem in Physical Education* 2nd edition, Eaglewood Cliffs, Prentice Hall, Inc.

Jerry R Thomas & Jack K Nelson (2000) *Research Methods in Physical Activities*; Illonosis; Human Kinetics;

Kamlesh, M. L. (1999) *Reserach Methodology in Physical Education and Sports*, New Delhi

Rothstain A (1985) *Research Design and Statistics for Physical Education*, Englewood Cliffs: Prentice Hall, Inc

Sivaramakrishnan. S. (2006) *Statistics for Physical Education*, Delhi; Friends Publication

Thirumalaisamy (1998), *Statistics in Physical Education*, Karaikudi, Senthilkumar Publications.

M.P.Ed (Semester-II)

PAPER-II

MPEd-202 SPORTS BIOMECHANICS AND KINSESIOLGY

UNIT I - Introduction

Meaning, nature, role and scope of Applied kinesiology and Sports Biomechanics. Meaning of Axis and Planes, Dynamics, Kinematics, Kinetics, Statics Centre of gravity -Line of gravity plane of the body and axis of motion, Vectors and Scalars.

UNIT II - Muscle Action

Origin, Insertion and action of muscles: Pectoralis major and minor, Deltoid, Biceps, Triceps (Anterior and Posterior), Trapezius, serratus, Sartorius, Rectus femoris, Abdominis, Quadriceps, Hamstring, Gastrocnemius.

UNIT III - Motion and Force

Meaning and definition of Motion. Types of Motion: Linear motion, angular motion, circular motion, uniform motion. Principals related to the law of Inertia, Law of acceleration, and law of counter force. Meaning and definition of force- Sources of force -Force components .Force applied at an angle - pressure -friction -Buoyancy, Spin - Centripetal force - Centrifugal force.

UNIT IV - Projectile and Lever

Freely falling bodies -Projectiles -Equation of projectiles stability Factors influencing equilibrium - Guiding principles for stability -static and dynamic stability. Meaning of work, power, energy, kinetic energy and potential energy. Leverage -classes of lever - practical application. Water resistance - Air resistance -Aerodynamics. Note: Laboratory practicals should be designed and arranged for students internally.

UNIT V - Movement Analysis

Analysis of Movement: Types of analysis: Kinesiological, Biomechanical. Cinematographic. Methods of analysis - Qualitative, Quantitative, Predictive.

Note: Laboratory Practicals be designed and arranged internally.

REFERENCE:

Deshpande S.H.(2002). Manav Kriya Vigyan - Kinesiology (Hindi Edition) Amravati :Hanuman Vyayam Prasarak Mandal. Hoffman S.J. Introduction to Kinesiology. Human Kinesiology publication In.2005. Steven Roy, & Richard Irvin. (1983). Sports Medicine. New Jersery: Prentice hall. Thomas. (2001). Manual of structural Kinesiology, New York: Me Graw Hill. Uppal A.K. Lawrence Mamta MP (2004) Kinesiology. Delhi, Friends Publication . Uppal, A K. (2004), Kinesiology in Physical Education and Exercise Science, Delhi, Friends publications. Williams M (1982) Biomechanics of Human Motion, Philadelphia; Saunders Co.

M.P.Ed (Semester-II)

PAPER -III

MPEd-203 ATHLETIC CARE AND REHABILITATION

UNIT I - Corrective Physical Education

Definition and objectives of corrective physical Education. Posture and body mechanics, Standards of Standing Posture. Value of good posture, Drawbacks and causes of bad posture. Posture test - Examination of the spine.

UNIT II - Posture

Normal curve of the spine and its utility, Deviations in posture: Kyphosis, lordosis, flat back, Scoliosis, round shoulders, Knock Knee, Bow leg, Flat foot. Causes for deviations and treatment including exercises.

UNIT III - Rehabilitation Exercises

Passive, Active, Assisted, Resisted exercise for Rehabilitation, Stretching, PNF techniques and principles.

UNIT IV - Massage

Brief history of massage - Massage as an aid for relaxation - Points to be considered in giving massage - Physiological , Chemical, Psychological effects of massage - Indication / Contra indication of Massage - Classification of the manipulation used in massage and their specific uses in the human body - Stroking manipulation: Effleurage - Pressure manipulation: Petrissage Kneading (Finger, Kneading, Circular) ironing Skin Rolling - Percussion manipulation: Tapotement, Hacking, Clapping, Beating, Pounding, Slapping, Cupping, Poking, Shaking Manipulation, Deep massage.

UNIT V - Sports Injuries Care, Treatment and Support

Principles pertaining to the prevention of Sports injuries - care and treatment of exposed and unexposed injuries in sports - Principles of apply cold and heat, infrared rays - Ultrasonic, Therapy - Short wave diathermy therapy. Principles and techniques of Strapping and Bandages.

Note: Each student shall submit Physiotherapy record of attending the Clinic and observing the cases of athletic injuries and their treatment procedure.(To be assessed internally)

REFERENCES:

Doherty. J. Meno.Wetb, Moder D (2000) Track & Field, Englewood Cliffs, Prentice Hal Inc. Lace, M. V. (1951) Massage and Medical Gymnastics, London: J & A Churchill Ltd. Mc Ooyand Young (1954) Tests and Measurement, New York: Appleton Century. Naro, C. L. (1967) Manual of Massage and, Movement, London: Febra and Febra Ltd. Rathbome, J.I. (1965) Corrective Physical education, London: W.B. Saunders & Co. Stafford and Kelly, (1968) Preventive and Corrective Physical Education, New York

M.P.Ed (Semester-II)

PAPER-IV

MPEd-204 SPORTS TECHNOLOGY

UNIT I - Sports Technology

Meaning, definition, purpose, advantages and applications, General Principles and purpose of instrumentation in sports, Workflow of instrumentation and business aspects, Technological impacts on sports.

UNIT II - Science of Sports Materials

Adhesives- Nano glue, nano moulding technology, Nano turf. Foot wear production, Factors and application in sports, constraints. Foams- Polyurethane, Polystyrene, Styrofoam, closedcell and open-cell foams, Neoprene, Foam. Smart Materials - Shape Memory Alloy (SMA), Thermo chromic film, High-density modelling foam.

UNIT III - Surfaces of Playfields

Modern surfaces for playfields, construction and installation of sports surfaces. Types of materials - synthetic, wood, polyurethane. Artificial turf. Modern technology in the construction of indoor and outdoor facilities. Technology in manufacture of modern play equipments. Use of computer and software in Match Analysis and Coaching.

UNIT IV - Modern equipment

Playing Equipments: Balls: Types, Materials and Advantages, Bat/Stick/ Racquets: Types, Materials and Advantages. Clothing and shoes: Types, Materials and Advantages. Measuring equipments: Throwing and Jumping Events. Protective equipments: Types, Materials and Advantages. Sports equipment with nano technology, Advantages.

UNIT V - Training Gadgets

Basketball: Ball Feeder, Mechanism and Advantages. Cricket: Bowling Machine, Mechanism and Advantages, Tennis: Serving Machine, Mechanism and Advantages, Volleyball: Serving Machine Mechanism and Advantages. Lighting Facilities: Method of erecting Flood Light and measuring luminous. Video Coverage: Types, Size, Capacity, Place and Position of Camera in Live coverage of sporting events.

Note: Students should be encouraged to design and manufacture improvised sports testing equipment in the laboratory/workshop and visit sports technology factory/ sports goods manufacturers.

REFERENCE:

Charles J.A. Crane, F.A.A. and Furness, J.A.G. (1987) "Selection of Engineering Materials" UK: Butterworth Heiremann. Finn, R.A. and Trojan P.K. (1999) "Engineering Materials and their Applications" UK: Jaico Publisher.

John Mongilo, (2001), "Nano Technology 101 "New York: Green wood publishing group.
Kochar, S.K. (1982) Methods and Techniques of Teaching (New Delhi, Jullandhar, Sterling Publishers Pvt. Ltd.)

Kozman, Cassidy and Jackson. (1952) Methods in Physical Education (W.B. Saunders Company, Philadelphia and London) Walia, J.S. (1999) Principles and Methods of Education (Paul Publishers, Jullandhar)

Practical

MPPC - 201 OFFICIATING AND COACHING

To develop proficiency in officiating and coaching of selected games. In view of this, the students shall be provided with advance mechanism of officiating and coaching in selected games, rules and their interpretation, mechanics of officiating, means and methods of training, equipments and their specification and maintenance and layout and maintenance of playfields.

**Devi Ahilya Vishwavidyalaya,
Indore**

M.P.Ed. Two Year (Four Semester)

Syllabus

Third Semester

**Registrar
Devi Ahilya Vishwavidyalaya , Indore
Indore – 452001 (M.P.)**

M.P.Ed (Semester-III)

PAPER -I

MPEd-301 SCIENTIFIC PRINCIPLES OF SPORTS TRAINING

UNIT I - Introduction

Sports training: Definition - Aim, Characteristics, Principles of Sports Training, Over Load: Definition, Causes of Over Load, Symptoms of Overload, Remedial Measures - Super Compensation - Altitude Training - Cross Training

UNIT II - Components of Physical Fitness

Strength: Methods to improve Strength: Weight Training, Isometric, Isotonic, Circuit Training, Speed: Methods to Develop Speed: Repetition Method, Downhill Run, Parachute Running, Wind Sprints, Endurance, Methods to Improve Endurance: Continuous Method, Interval Method, Repetition Method, Cross Country, Fartlek Training

UNIT III - Flexibility

Flexibility: Methods to Improve the Flexibility- Stretch and Hold Method, Ballistic Method, Special Type Training: Plyometric Training. Training for Coordinative abilities: Methods to improve Coordinative abilities: Sensory Method, Variation in Movement Execution Method, Variation in External Condition Method, Combination of Movement Method, Types of Stretching Exercises.

UNIT IV - Training Plan

Training Plan: Macro Cycle, Meso-Cycle. Short Term Plan and Long Term Plans - Periodisation: Meaning, Single, Double and Multiple Periodisation, Preparatory Period, Competition Period and Transition Period.

UNIT V - Doping

Definition of Doping - Side effects of drugs - Dietary supplements - IOC list of doping classes and methods. Blood Doping - The use of erythropoietin in blood boosting - Blood doping control

- The testing programmes - Problems in drug detection - Blood testing in doping control - Problems with the supply of medicines Subject to IOC regulations: over the-counter drugs (OTC)

- prescription only medicines (POMs) - Controlled drugs (CDs). Reporting test results - Education

REFERENCES :

Beotra Alka, (2000), Drug Education Handbook on Drug Abuse in Sports. Delhi: Sports Authority of India. Bunn, J.N. (1998) Scientific Principles of Coaching, New Jersey Engle Wood Cliffs, Prentice Hall Inc. Cart, E. Klafs & Daniel, D. Arnheim (1999) Modern Principles of Athletic Training St. Louis C. V. Mosby Company Daniel, D. Arnheim (1991) Principles of Athletic Training, St. Luis, Mosby Year Book David R. Mottram (1996) Drugs in Sport, School of Pharmacy, Liverpool: John Moore University Gary, T. Moran (1997) - Cross Training for Sports, Canada : Human Kinetics Hardayal Singh (1991) Science of Sports Training, New Delhi, DVS Publications Jensen, C.R. & Fisher A.G. (2000) Scientific Basic of Athletic Conditioning, Philadelphia Ronald, P. Pfeiffer (1998) Concepts of Athletics Training 2nd Edition, London: Jones and Bartlett Publications Yograj Thani (2003), Sports Training, Delhi : Sports Publications

M.P.Ed (Semester-III)

PAPER -II

MPEd-302 SPORTS MEDICINE

UNIT I - Introduction

Meaning, definition and importance of Sports Medicine, Definition and Principles of therapeutic exercises. Coordination exercise, Balance training exercise, Strengthening exercise, Mobilization exercise, Gait training, Gym ball exercise Injuries: acute, sub-acute, chronic. Advantages and Disadvantages of PRICE, PRINCE therapy, Aquatic therapy.

UNIT II - Basic Rehabilitation

Basic Rehabilitation: Strapping/Tapping: Definition, Principles Precautions Contraindications. Proprioceptive neuromuscular facilitation: Definition hold, relax, repeated contractions. Show reversal technique exercises. Isotonic, Isokinetic, isometric stretching. Definition. Types of stretching, Advantages, dangers of stretching, Manual muscle grading.

UNIT III - Spine Injuries and Exercise

Head, Neck and Spine injuries: Causes, Presentational of Spinal anomalies, Flexion, Compression, Hyperextension, Rotation injuries. Spinal range of motion. Free hand exercises, stretching and strengthening exercise for head neck, spine. Supporting and aiding techniques and equipment for Head, Neck and Spine injuries.

UNIT IV - Upper Extremity Injuries and Exercise

Upper Limb and Thorax Injuries: Shoulder: Sprain, Strain, Dislocation, and Strapping. Elbow: Sprain, Strain, Strapping. Wrist and Fingers: Sprain Strain, Strapping. Thorax, Rib fracture. Breathing exercises, Relaxation techniques, Free hand exercise, Stretching and strengthening exercise for shoulder, Elbow, Wrist and Hand. Supporting and aiding techniques and equipment for Upper Limb and Thorax Injuries.

UNIT V - Lower Extremity Injuries and Exercise

Lower Limb and Abdomen Injuries: Hip: Adductor strain, Dislocation, Strapping. Knee: Sprain, Strain, Strain, Strapping. Ankle: Sprain, Strain, Strapping. Abdomen: Abdominal wall, Contusion, Abdominal muscle strain. Free exercises - Stretching and strengthening exercise for Hip, knee, ankle and Foot. Supporting and aiding techniques and equipment for Lower limb and Abdomen injures.

Practicals: Lab. Practicals and visit to Physiotherapy Centre to observe treatment procedure of sports injuries; data collection of sports injury incidences etc. should be planned internally.

REFERENCES:

Christopher M. Norris. (1993). Sports Injures Diagnosis and Management for Physiotherapists.

East Kilbride: Thomson Litho Ltd. James, A. Gould & George J. Davies. (1985) Physical Therapy. Toronto: C.V. Mosby Company. Morris B. Million (1984) Sports Injuries and Athletic Problem. New Delhi: Surjeet Publication. Pande. (1998). Sports Medicine. New delhi: Khel Shitya Kendra

The Encyclopedia of Sports Medicine. (1998). The Olympic Book of Sports Medicine, Australia: Tittel Blackwell Scientific publications. Practical: Anthropometric Measurements,

M.P.Ed (Semester-III)

PAPER-III

MPEd-303 PHYSICAL FITNESS AND WELLNESS

UNIT I - Introduction

Meaning and Definition" of Physical Fitness, Physical Fitness Concepts and Techniques, Principles of physical fitness, Physiological principles involved in human movement. Components of Physical Fitness. Leisure time physical activity and identify opportunities in the community to participate in this activity. Current trends in fitness and conditioning, components of total health fitness and the relationship between physical activity and lifelong wellness.

UNIT II - Nutrition

Nutrients; Nutrition labelling information, Food Choices, Food Guide Pyramid, Influences on food choices-social, economic, cultural, food sources, Comparison of food values. Weight Management-proper practices to maintain, lose and gain. Eating Disorders, Proper hydration, the effects of performance enhancement drugs

UNIT III - Aerobic Exercise

Cardio respiratory Endurance Training; proper movement forms, i.e., correct stride, arm movements, body alignment; proper warm-up, cool down, and stretching, monitoring heart rates during activity. Assessment of cardio respiratory fitness and set goals to maintain or improve fitness levels. Cardio respiratory activities including i.e. power walking, pacer test, interval training, incline running, distance running, aerobics and circuits.

UNIT IV - Anaerobic Exercise

Resistance Training for Muscular Strength and Endurance; principles of resistance training, Safety techniques (spotting, proper body alignment, lifting techniques, spatial, awareness. and proper breathing techniques). Weight training principles and concepts; basic resistance exercises (including free hand exercise, free weight exercise, weight machines, exercise bands and tubing. medicine balls, fit balls) Advanced techniques of weight training

UNIT V - Flexibility Exercise

Flexibility Training, Relaxation Techniques and Core Training. Safety techniques (stretching protocol; breathing and relaxation techniques) types of flexibility exercises (i.e. dynamic, static), Develop basic competency in relaxation and breathing techniques. Pilates, Yoga.

REFERENCE:

David K. Miller & T. Earl Allen, Fitness, A life time commitment, Surjeet Publication Delhi 1989. Dificore Judy, the complete guide to the postnatal fitness, A & C Black Publishers Ltd. 35 Bedfordrow, London 1998 Dr. A.K. Uppal, Physical Fitness, Friends Publications (India), 1992. Elizabeth & Ken day, Sports fitness for women, B.T. Batsford Ltd, London, 1986. Emily R. Foster, Karyn Hartiger & Katherine A. Smith, Fitness Fun, Human Kinetics Publishers 2002. Lawrence, Debbie, Exercise to Music. A & C Black Publishers Ltd. 37, Sohe Square, London 1999 Robert Malt. 90 day fitness plan, D.K. publishing, Inc. 95, Madison Avenue, New York 2001 Warner W.K. Oeger & Sharon A.Hoeger, Fitness and Wellness, Morton Publishing Company, 1990.

M.P.Ed (Semester-III)

PAPER-IV

MPEd-304 SPORTS SPECIALIZATION

CRICKET SPECIALIZATION

UNIT I

Foundation:

- a. National and International bodies, controlling the sports/game and their function.
- b. Qualities and Qualification of coaches /officials and their duties and responsibilities
- c. Role of Cricket for the overall welfare of the human society

UNIT II

Tactical Training

- a. Meaning and aims of tactics.
- b. Offensive and defensive tactical patterns

UNIT III

Evaluation of Training

- a. Requirements for evaluation of techniques.
- b. Types of evaluation in training.
- c. Working documents for evaluation in training.

Talent Identification and Development

- a. Principles of Talent Identification.
- b. Organization of training for children.

UNIT IV

Lay out, construction and maintenance of cricket field.

UNIT V

Laws (Rules) and their impact on the game.

References:

1. Frank Tyson, Manual for cricket coaching.
2. Tom Smith umpiring and scoring
3. E.B. Elbloria Cricket Coaching.

M.P.Ed. SEMESTER - III

HOCKEY SPECIALIZATION

Unit I: Origin of Hockey

Ancient hockey, modern hockey, hockey in India.

Unit II: History of Major International and National Hockey Championship

- (a) World cup Hockey, Olympic Games, Championship trophy and Asia Cup.
- (b) Rangaswami Cup, Benghton Cup.

Unit III: Basic and advance skills of Hockey

Rolling , pushing , Hitting , stopping, Dribbling , Receiving , flick , scoop , Dodging and tacking.

Unit IV

Meaning of sports training Definition of sports training aims of sports training objectives of sports training characteristics of sports training principle of sport training.

Unit V

- (a) Drills and Test in Hockey
- (b) Construction, layout and maintenance of playfields & equipments.

M.P.Ed. SEMESTER - III

ATHLETICS SPECIALIZATION

Unit I: Coaching

- (A) Philosophy of Coaching
- (B) Basic principles of coaching
- (C) Qualities of coaches

Unit II: Organization

- (A) Organization of Coaching Camps
- (B) Preparing Schedules
- (C) Organization of a Competition

Unit III: Sports Training

- (A) Aims of Sports Training
- (B) Characteristics of Sports Training
- (C) Principles of Sports Training

Unit IV: Various Means and Methods of Training

- (A) Interval Training
- (B) Repetition Training
- (C) Fartlek
- (D) Competition Method
- (E) In and Out
- (F) Hill Running
- (G) Drag Running
- (H) Aqua Training
- (I) Weight Training
- (J) Polymeric Exercises
- (K) Circuit Training

Unit V: Mechanics of Athletics

- (A) Analysis of scientific principles applied to sprinting and jumping.
- (B) Analysis of scientific principles applied to throwing.

M.P.Ed. SEMESTER - III

BADMINTON SPECIALIZATION

Unit I: National Championships

- (a) Junior and National Team Championships
- (b) Open National Championships - Midget , Sub junior , junior senior and veterans

Unit II: Competition Regulations

- (a) Thomas and under Cup
- (b) Competition Regulations for Seeding and League System
- (c) Indian Ranking System

Unit III: Advance Tactics and strategy

- (a) Singles
- (b) Doubles
- (c) Mixed Doubles

Unit IV: Training in Badminton

- (a) Sports Training Principles in Badminton.
- (b) Training load and adaptation
- (c) Requirement of the game – physical fitness components i.e. strength speed Endurance flexibility and coordinative Abilities.

Unit V: Tests in Badminton

- (a) Tests of skills and knowledge , physical fitness and strategy – Lockhart and Mc pherson , Miller , French poole, Sebolt, Hicks, S.A.I Chang and other available Badminton tests.
- (b) Selection of a Badminton Team
- (c) (I) At school / college/ university Level.
(II) At District/ State/National Level.

References :-

1. Ballou , Rulph B. Teaching Badminton Delhi : Surjeet publications , 1982
2. Downey . Jack Badminton for schools New delhi s chand and co ltd 1981
3. downey jack winning badminton singles London adam and charles black .
4. downey , jack winning badminton dubles London adam and charles black .
5. downey jack how to coach badminton London William Collins sons and co. ltd 1990

6. hushman , judy and jones c.m. beginning badminton new york arco publishing company inc 1977
7. roper peter Badminton : The Skills of the game , Wiltshire the crowood press , 1987
8. Davis , pat Badminton – A Complete practical Guide Revised Edition (North pomfret David and charles publishers 1988)
9. davis pat the encyclopaedia of Badminton London Robert Hale limited 1987
10. Talbut , Derek Top Coach Badminton , Lomdon McDonald and co. publisher ltd. 1989
11. blossom Margaret varner and hales R. Stanion Badminton 5 th Ed iowa Wm c Brown publishes 1987
12. downey jack c. and brodie david get fit for badminton London Pelham books ltd 1980
13. downey jack c and brodie david get for badminton London Pelham books ltd 1980
14. eaton Richard sports action badminton London ocopus books 1982
15. rogers wynn advanced badminton iowa wm/ c Brow publishers 1970
16. www.badminionindia.org
17. www.internationalbadminton.org

M.P.Ed. SEMESTER - III

GYMNASTICS SPECIALIZATION

Unit I: Advance skills (at least one exercise on each apparatus)

Unit II: Officiating

Unit III:

- (A) Lay out and maintenance of gymnasium and apparatus
- (B) Structure & function of F.I.G. & G.F.I
- (C) Organization & conduct of competition

Unit IV: Analysis of scientific principles applied to different skills

Unit V: Training methods for improving the performance

M.P.ED SEMESTER - III

KHO-KHO SPECIALIZATION

Unit-I

Modern trends and devolvement in kho-kho, international or national organization, executive committees, structure of federations and function of federation.

Unit-II

Aims and importance of officiating, officiating mechanism, officiating performance analysis, methods of collecting data , analysis of performance of opponent team.

Unit-III

Rules and their interpretation, duties of officials and signals of various officials.

Unit-IV

Coaching , philosophy of coach, personal training pre-game , during game, post game , planning of team, selection of player , selection of caption.

Unit-V

Protection of maintenance of ground , methods of marking the ground , flood light , advantages and disadvantages , warm up and general and specific exercises before the game , fixtures of tournaments.

M.P.Ed. SEMESTER - III

FOOTBALL SPECIALIZATION

Unit - I

Origin of football ancient football, modern football, in India

Unit - II

History of major international and national football championship

(A) World Cup, confederation cup (B) Santosh trophy, National football league, Subroto Mukherjee trophy, B.L. Roy Trophy

Unit - III

Basic and advance skills of football -

- (A) Various types of receiving.
- (B) Various types of kicking.
- (C) Running with, and without the ball.
- (D) Heading
- (E) Throwing - in
- (F) Dribbling

Unit - IV

Meaning of sports training, definition of sports training, aims of sports training objectives of sports training characteristics of sports training principles of sports training per iodization.

Unit - V

- (a) Drill and test in football
- (b) Construction, layout and maintenance of play fields and equipments.

M.P.Ed (Semester-III)

Practical

MPPC-301 INTERNSHIP& PROJECT

INTERNSHIP: Every student has to serve honorary in the institution/
School/fitness centers.

Evaluated on the basis of Daily Diary preparation, regularity, teaching quality, sincerity, class control and job execution.

Criteria for evaluating Internship Programme:

- A Student will be required to join any school/ organization in any one of the following areas:
 - o Gym and Health Club management.
 - o Aerobics/Mass Demonstration.
 - o Training of Life guard for water sports.
 - o Sports Management/Journalism.
 - o Teaching Physical Education in Schools/Institutions/Centers.

A student is required to bring a certificate on letter head of the Institute from the Head of the Organization., specifying that he/she has imparted instruction/training/teaching in that organization w.e.f to and his/her work has been excellent/very good/good/satisfactory/poor (The administrator may tick any one of the five alternatives).

PROJECT: Informative model (working or simple, preparation of informative chart or flex board) related to Physical Education, sport, health, wellness, yoga & fitness to be prepared individually or in group.

M.P.Ed (Semester-III)

Practical

MPPC-302 SPORTS SPECIALIZATION (Practical Skills)

PRACTICAL SKILLS OF GAME SPECIALIZATIONS

Develop proficiency in practical skills of selected game specialization. Students shall be provided knowledge of basic and advance skills of their selected game specialization.

Devi Ahilya Vishwavidyalaya, Indore

M.P.Ed. Two Year (Four Semester)

Syllabus

Fourth Semester

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Indore – 452001 (M.P.)**

M.P.Ed (Semester-IV)

PAPER -I

MPEd-401 SPORTS PSYCHOLOGY

UNIT I - Introduction

Meaning, Definition, History, Need and Importance of Sports Psychology. Present Status of Sports Psychology in India. Motor Learning: Basic Considerations in Motor Learning - Motor Perception : Factors Affecting Perception - Perceptual Mechanism. Personality: Meaning, Definition, Structure - Measuring Personality Traits. Effects of Personality on Sports Performance.

UNIT II - Motivation & Mental State

Meaning and Definition, Types of Motivation: Intrinsic, Extrinsic. Achievement Motivation: Meaning, Measuring of Achievement Motivation. Anxiety: Meaning and Definition, Nature, Causes, Method of Measuring Anxiety. Competitive Anxiety and Sports Performance. Stress: Meaning and Definition, Causes. Stress and Sports Performance. Aggression: Meaning and Definition, Method of Measurement. Aggression and Sports Performance. Self-Concept: Meaning and Definition, Method of Measurement.

UNIT III - Goal Setting

Meaning and Definition, Process of Goal Setting in Physical Education and Sports. Psychological Tests: Types of Psychological Test: Instrument based tests: Pass-along test - Tachistoscope-Reaction timer - Finger dexterity board - Depth perception box - Kinesthesiometer board. Questionnaire: Sports Achievement Motivation, Sports Competition Anxiety.

UNIT IV - Psychological aspects of Competition:

Defining competition, determinants of competitive behavior, psychological characteristics of pre-competition, during competition and post competition. Selected psycho regulative techniques technique for relaxation and activation. Psychological aspects of long term and short term preparation for competition, Psychological care of injuries, sports person, responses to injuries, prevention and coping techniques.

UNIT V - Psycho-Social Facilitation:

Presence of others, co action effect and audience effect in sports. Factors mediating social facilitations. **Volitional regulation actions in sports:** Meaning, Characteristics and Factors affecting volitional regulated behavior. Development of volitional qualities.

Practicals: Atleast five experiments related to the topics listed in the Units above should be conducted by the students in laboratory. (Internal assessment.)

REFERENCES:

Authors Guide (2013) National Library of Educational and Psychological Test (NLEPT) Catalogue of Tests, New Delhi: National Council of Educational Research and Training Publication. Jain. (2002), Sports Sociology, Heal Sahety Kendre Publishers.

Jay Coakley. (2001) Sports in Society - Issues and Controversies in International Education, Mc-Craw Seventh Ed.

John D Lauther (2000) Psychology of Coaching. Ner Jersy: Prenticce Hall Inc. John D. Lauther (1998) Sports Psychology. Englewood, Prentice Hall Inc. Miroslaw Vauks & Bryant Cratty (1999). Psychology and the Superior Athlete. London: The Macmillan Co.

Richard, J. Crisp. (2000). Essential Social Psychology. Sage Publications.

Robert N. Singer (2001). Motor Learning and Human Performance. New York: The Macmillan Co. Robert N. Singer. (1989) The Psychology Domain Movement Behaviour. Philadelphia: Lea and Febiger. Thelma Horn. (2002). Advances in Sports Psychology. Human Kinetic. Whiting, K, Karman. Hendry L.B & Jones M.G. (1999) Personality and Performance in Physical Education and Sports. London: Hendry Kimpton Publishers.

M.P.Ed (Semester-IV)

PAPER -II

MPEd-401 HEALTH EDUCATION AND SPORTS NURTITION

UNIT I- Health Education

Concept, Dimensions, Spectrum and Determinants of Health Definition of Health, Health Education, Health Instruction, Health Supervision Aim, objective and Principles of Health Education Health Service and guidance instruction in personal hygiene

UNIT II- Health Problems in India

Communicable and Non Communicable Diseases Obesity, Malnutrition, Adulteration in food, Environmental sanitation, Explosive, Population, Personal and Environmental Hygiene for schools Objective of school health service, Role of health education in schools Health Services -Care of skin, Nails, Eye health service, Nutritional service, Health appraisal, Health record, Healthful school environment, first- aid and emergency care etc

UNIT III - Hygiene and Health

Meaning of Hygiene, Type of Hygiene, dental Hygiene, Effect of Alcohol on Health, Effect of Tobacco on Health, Life Style Management, Management of Hypertension, Management of Obesity, Management of Stress

UNIT IV- Sports Nutrition

Nutrition Meaning and Definition of Sports Nutrition, Role of nutrition in sports, Basic Nutrition guidelines, Nutrients: Ingestion to energy metabolism (Carbohydrate, Protein and Fat), Role of carbohydrates, Fat and protein during exercise.

UNIT V- Weight Control Management

Concept of BMI (Body mass index), Obesity and its hazard, Dieting versus exercise for weight control Maintaining a Healthy Lifestyle, Weight management program for sporty child, Role of diet and exercise in weight management, Design diet plan and exercise schedule for weight gain and loss.

REFERENCES:

Boyd-Eaton S. et al (1989) *The Stone Age Health Programme: Diet and Exercise as Nature Intended*. Angus and Robertson. Bucher, Charles A. "Administration of Health and Physical Education Programme". Delbert, Oberteuffer, et. al." *The School Health Education*". Ghosh, B.N. "Treaties of Hygiene and Public Health". Hanlon, John J. "Principles of Public Health Administration" 2003. Moss and et. At. "Health Education" (National Education Association of U.T.A.) Nemir A. "The School Health Education" (Harber and Brothers, New York). Nutrition Encyclopedia, edited by Delores C.S. James, The Gale Group, Inc. Terras S. (1994) *Stress, How Your Diet can Help: The Practical Guide to Positive Health Using Diet, Vitamins, Minerals, Herbs and Amino Acids*, Thorons. Turner, C.E. "The School Health and Health Education".

M.P.Ed (Semester-IV)

PAPER-III

MPEd-403 SPORTS MANAGEMENT

UNIT I- Management:

Meaning and Functions, The skills of management, the universal nature of the management process, Management and Administration, Principles and Theories of Management.

UNIT II- Organisation:

Classical Principles, Bureaucracy; Bureaucracy in Democracy and in sports organizations. Open systems perspectives. The constitution of a national sports organization, office holders of an organization and their functional meetings.

UNIT III- Human resource management:

Definition & Aspect of HRM, Job analysis and its process. Human resource planning, Recruitments, Manpower Planning, Personal Management and its principles, Appraisals & Public Relation in physical education.

UNIT IV- Management of performance:

Evaluation and its techniques in physical education. Sports competition and its system, Training structure & performance. Injury management, Ethics of sports.

UNIT V- Management of finance, Facilities and material:

Financial administration in sports and physical education, Sources of funds in sports. Budgeting in sports and games, purpose and principles of budgeting.

Material Management: Improvisation and Standardization of Sports equipments and materials.

Scientific purchasing. Storekeeping, inventory control and value analysis.

Facility (outdoor and indoor) Planning, Construction and maintenance of sports facilities.

REFERENCE:

Bucher Carles, A. (1987) Administration of Physical Education and Athletic programs. London, The C.V. Mosby Co.

Chelladurai P. (1985) Sports Management Macro perspective. Canada Sports Dynamics

Earle F. Zeigler & Gary W. Bowie(1993): Management competency Development in sports and physical education Philadelphia: W. Leo and Febiger. Heph Bucher and Earnest Koerigeberg(1968): Scientific Inventory Management . New Delhi:

Prentice Hall of India Pvt. Ltd., Morson James G and Jimpaul (1988) Modern Sports Administration. Englewood Cliffs, New Jersey: Prentice Hall, Inc.

Scholar Rondoll S and Nicholas. J(1983) Personal Management. New York, West Publishing company.

Vanderwag Harold. J(1984) Sports Management (New York: Mac Millon publishing company.

M.P.Ed (Semester-IV)

PAPER-III

MPed-403 DISSERTATION

- 1.A candidate shall have dissertation for M.P.Ed.-IV Semester and must submit his/her Synopsis and get it approved by the Head of Department on the recommendation of D.R.C. (Departmental Research Committee).
- 2.A candidate selecting dissertation must submit his/her dissertation not less than one week before the beginning of the IVth Semester Examination.
- 3.The candidate has to face the Viva-Voce conducted by DRC.

M.P.Ed (Semester-IV)

PAPER -IV

MPEd 404 SPORTS SPECIALIZATION

CRICKET SPECIALIZATION

UNIT - I

ADVANCE SKILLS.

- (a) Batting**
 - a. Vertical Bat Shots
 - b. Horizontal Bat Shots
- (b) Bowling**
 - (a).Medium Pace.
 - a. Out swing
 - b. In swing.
 - c. Leg cutters
 - d. off cutters
 - (b) Spin-
 - a. Leg Spin with variation
 - b. Off spin with variation
- (c) Fielding**
 - 1. Methods
 - 2. Techniques
 - 3. Wickets. Keeping
 - 4. Running between the wickets.

UNIT -II

- a. Major Components associated with Cricket, their development and inter -relationship.
- b. Training load and adaptation.
- c. Judgment of training load -objectives and Subjective means.

UNIT-III

Training Means and Methods

- 1. Principles means of training.
- 2. Additional means of training.
- 3. Psychological means of training.
- 4. Bio-mechanical means of training.

UNIT-IV

- a. Rules and their interpretation
- b. Duties of umpire before, after and during the match.

UNIT-V

Major National and International Competitions.

References:

1. Frank Tyson, Manual for cricket coaching.
2. Tom Smith umpiring and scoring
3. E.B. Elbloria Cricket Coaching.

M.P.Ed. SEMESTER - IV

FOOTBALL SPECIALIZATION

Unit - I Organizations -

- (A) FIFA structure and functions.
- (B) AIFF structure and functions.

Unit - II (A) Fitness and coaching in football

- (B) Skill acquisition
- (C) System of play

Unit - III Mechanical and muscular analysis of skills.

Mechanics of officiating.

Rule and their interpretation

Unit - IV Training Method

- a. Warming up (General and Specific)
- b. Training as motor qualities (General)

Unit - V Techniques and Tactics

- a. Advance skill and techniques
- b. General mechanical principals applied to skill techniques

M.P.Ed. SEMESTER - IV

GYMNASTICS SPECIALIZATION

Unit - I

- a. Advance skills (at least one Exercise of "D" value on each apparatus.)

Unit - II

- a. Scoring :- Methods of Determining scores sheet.

Unit - III

- a. National and International camp.
- b. Organization of coaching camps.

Unit - IV

- a. Basic Principles for the competition programme.
- b. Sequence of performance on apparatus.
- c. Right of participation and size of delegations.

Unit - V

- a. Code of Ethics F.I.G.
- b. Awards:- The design of medals and Diplomas, Timing of Award ceremonials.

M.P.Ed. SEMESTER - IV

ATHLETICS SPECIALIZATION

Unit - I

- a. Technical Rules - Officials
- b. Technical Rules - General Competition Rules

Unit - II

- a. Technical Rules - Track Events

Unit - III

- a. Technical Rules - Field Events

Unit - IV

- a. Technical Rules - Combined Events

Unit - V

- a. Technical Rules - Race Walking
- b. Technical Rules - Road Races
- c. Technical Rules - Cross Country

M.P.Ed. SEMESTER - IV

HOCKEY SPECIALIZATION

Unit I - Organizations

- a. F.I.H Structure and functions
- b. H.I.F. Structure and functions.

Unit II-

- a. Fitness and Coaching in Hockey
- b. Skill Acquisition.
- c. System of play

Unit III

- a. Mechanical and muscular analysis of skills.

Unit IV

- a. Mechanics of officiating.

Unit V

- a. Rules and Their interpretation.

M.P.Ed. SEMESTER - IV

BADMINTON SPECIALIZATION

Unit I - Organizations

- (a) B.A.I. structure and functions
- (b) B.W.F. structure and functions

Unit II - Organization of Competitions

- (a) School/College/District
- (b) State/National/University level
- (c) International level

Unit III - Competition Planning

- (a) Sudirman Cup & World Championship
- (b) Grand Prix and super service Tournaments
- (c) World ranking system

Unit IV - Competition Planning

- (a) Training plan for competition
- (ii) Build up competitions
- (i) Periodization, Micro, Meso Macro and Macro Cycle plan
- (b) Psychological Preparation for Badminton Competition

Unit V - Miscellaneous

- (a) Evaluation of Badminton players during competition
- (b) Most common injuries in Badminton and their immediate treatment
- (c) Mechanical analysis of Fundamental skills

References:

1. Balluo Ralph B. Teaching Badminton Delhi: Surjeet Publications, 1982.
2. Downey, Jack Badminton for School New Delhi: S. Chand and Co. Ltd. 1981.
3. Downey, Jack Winning Badminton Singles London: Adam and Charles Black.
4. Downey, Jack Winning Badminton Doubles London Adam and Charles Black.
5. Downey, Jack How to Coach Badminton London William Collins Sons and Co.Ltd., 1990
6. Hashman, Judy and Jones, C.M. Beginning Badminton, New York: Arco Publishing Company, Inc. 1977.
7. Roper, Peter Badminton: The Skills of the Game. Wiltshire: The Crowood Press, 1987
8. Davis, Pat Badminton : A complete practical guide revised edition (North Pomfret: David and Charles Publishers, 1988.
9. Davis, Pat The Encyclopaedia of Badminton Lodon: Robert Hale Limited, 1987.
10. Talbot, Derek Top Coach Badminton, London: McDonald and Co. Publisher Ltd. ,1989.
11. Blass, Margaret Varner and Hales, R. Stanton Badminton 5th Ed. Iowa: Wm. C. Brown publishes, 1987.
12. Downey, Jack C. Batter Badminton for all 3rd Ed. London: Pelham Books Ltd. 1982.
13. 14. Eaton, Richard Sports action badminton London: Octopus Books, 1982.
15. Rogers, Wynn Advanced Badminton IOWA: Wm. C. Brown Publishers, 1970.
16. IBF Event Organization Manual
17. www.badmintonindia.org
18. www.internationalbadminton.org

M.P.Ed. SEMESTER - IV

KHO KHO SPECILIZATION

UNIT I

- Skill & training
- Basic skill& Technique Attacking & Defensive Skill
- Drills for Skill development
- Lead up games for beginners in Kho-Kho
- General & specific warm-up related in Kho-Kho
- Development of motor component related with specific reference in Kho-Kho

UNIT II

- Rules & their interpretation
- Rule about match coach managers & players
- Official their duties & signs

UNIT III

- Biomechanical principle
- Biomechanical principle analysis of various attacker, defender skill

UNIT IV

- Competition planning / coaching ,physiological/ psychological quality of player
- Diet and nutrition
- Preparation for competition
- Principle of practice & coaching preparation pre match.
- Coaching lesson plan

UNIT V

- Rehabilitation
- Injury related with Kho-Kho
- Major injuries in kho-kho
- Prevention & safety measurement
- Rehabilitation of injury

Practical

MPPC- 401 CLASS ROOM TEACHING (LESSONS ON THEORY SUBJECTS)

THEORY TEACHING LESSONS

The students of M.P.Ed-IV Semester need to develop proficiency in taking teaching lessons as per selected subjects/Topics. In view of this, the students shall be provided with selected or specialized subject teaching experience. The duration of the lesson to be conducted by these students shall be in the range of 30 to 40 minutes depending on the class time they are going to handle at school and college level.

Each student teacher is expected to take at least five lessons during the course of the fourth semester. The lessons will be supervised by the faculty members and experts who would discuss the merits and demerits of the concerned lesson and guide them for the future. (05 Internal/1External)

Practical

MPPC-402 SPORTS SPECIALIZATION (COACHING LESSONS)

COACHING LESSONS OF GAME SPECIALIZATIONS

The students of M.P.Ed - IV Semester need to be develop proficiency in taking coaching lesson on selected game specialization. In view of this, the students shall be provided with advance mechanism of coaching in selected game specialization. The duration of the lesson to be conducted by these students shall be in the range of 30 to 40 minutes depending on the class time they are going to handle at school and college level. Each student teacher is expected to take at least five lessons during the course of the fourth semester. The lessons will be supervised by the faculty members and experts who would discuss the merits and demerits of the concerned lesson and guide them for the future. In these coaching lessons, all the parts of the lesson covered progressively.

MPEd- ADVENTURE or LEADERSHIP CAMP/TOUR/TRAINING & SEMINAR

ADVENTURE ACTIVITIES: Trekking, Wall climbing, River crossing, Mountaineering, etc **SEMINAR:** Presentation on topics of sports, yoga, wellness, health & fitness their research findings, survey of literature, development, historical or current issues.

10 days leadership camp is compulsory for every student before appearing IV semester Examination

DEVI AHILYA VISHWAVIDYALAYA, INDORE
SCHOOL OF PHYSICAL EDUCATION

**Scheme of Examination & Syllabus
of Course Work
for
Ph.D. in Physical Education**

(As per University ordinance no. 18 and 31)
(Jan 2018 Onwards)

DEVI AHILYA VISHWAVIDYALAYA, INDORE

RULES GOVERNING THE COURSE WORK FOR AWARD OF Ph.D. DEGREE IN PHYSICAL EDUCATION

1. OBJECTIVE OF THE COURSE WORK

- (a) To provide knowledge to researchers.
- (b) To develop research ability of researchers.

2. DURATION OF THE COURSE WORK

One Semester (As per University Ph.D. Ordinance 18)

3. COURSE WORK (As per Ph.D. Ordinance 18)

- (a) The candidates already completed the course work with at least 55% of marks in M.Phil. and admitted to the Ph.D. programme shall be exempted from the Ph.D. course work and its fee. All other candidates admitted to the Ph.D. programme and submitted the Ph.D. registration form shall be required to complete the course work of 16 credits as prescribed by the University/ Research Centre during initial one or two semesters. The course work shall be treated as prerequisite for Ph.D. preparation. All courses prescribed for Ph.D. course work shall be in conformity with the credit hour instructional requirement and shall specify content, instructional and assessment methods. The examination and evaluation scheme for Ph.D. course work shall be as per the examination and evaluation scheme of the University applicable to the other programmes of the UTDs.

The Ph.D. course work shall contain the following courses:

- | | | |
|-------|--|-----------|
| (i) | Research Methodology | 4 credits |
| (ii) | Review of Published Research in the relevant field | 3 credits |
| (iii) | Computer Applications | 3 credits |
| (iv) | Advance course in the relevant subject | 3 credits |
| (v) | Comprehensive Viva-Voce | 3 credits |

The course on Research Methodology should cover areas such as statistical research methods, research ethics, research report writing, etc. The course on Review of Published Research in the relevant field will be undertaken under the supervisor or the regular teacher of the centre of course work and the candidate has to consult the library or other resources to carry out the literature review. At the end of the semester the candidate has to submit a brief report on the literature review for evaluation, which will be done by the two examiners. The course on computer applications will include the computer applications helpful in the relevant subject. The advanced course in the relevant field shall comprise the topics related to the subject of research. The syllabus of the courses on research methodology, computer applications, and advanced course shall be decided by the concerned Board of Studies.

The final grades shall be submitted to the University. The University shall issue the certificate of the Ph.D. course work in the prescribed format.

- (b) The course work shall be conducted in the University Teaching Departments/ Research centers as approved by the Vice chancellor.
- (c) A combined course work for M.Phil. and Ph.D. students may be conducted for a single / group of subjects wherever possible.
- (d) If found necessary, course work may be carried out in sister UTD/ Institute within the University for which due credit will be given.
- (e) If a student obtains F or Ab Grade in a course/ subject, he /she will be treated to have failed in that course. He / she have to reappear in the examinations of the course as and when conducted or arranged by the UTD in the next semester. Marks obtained earlier in continuous assessment may be carried forward and added to the marks obtained in repeat end-semester examination to decide the grade in the repeat course. The student has to pay the prescribed fee for repeating the course. If he/she further fails in the course, he/she shall not be given another chance and he/ she shall be out of the Ph.D. programme. No student shall be allowed to repeat the course to improve the grade if he/ she pass the course.
- (f) The candidate has to obtain a minimum of 55% of marks or its equivalent grade points in aggregate in the course work in order to be eligible to continue in the Ph.D. programme.

4. ATTENDENCE

As per University Examination Ordinance 31.

5. ACADEMIC PROGRAM (Course Work)

Part – A (Theory Papers)		No. of classes per week		No. of Credits
		Lectures	Practical / Project/Library Work	
T-01	Research Methodology	03	01	04
T-02	Review of Published Research in the relevant field	02	01	03
T-03	Computer Applications	02	01	03
T-04	Advance course in Physical Education	02	01	03
Part – B (Viva -voce)				
C-01	Comprehensive Viva -Voce			03
Total Credits				<u>16</u>

6. EXAMINATION

- (a) All the candidates who register for Course work of Ph.D. in Physical Education shall appear in the examinations according to the following scheme:

SCHEME OF COURSE WORK EXAMINATION

Part – A (Theory Papers)		Maximum Marks		
		External	Internal	
T-01	Research Methodology	60	40	
T-02	Review of Published Research in the relevant field	60	40	
T-03	Computer Applications	60	40	
T-04	Advance course in Physical Education	60	40	
Part – B (Viva Voce)				
C-01	Comprehensive Viva -Voce	100	-	
Total		340	160	

Grand Total

500

7. EVALUATION

- (a) The grading shall be done as per university Ph.D. ordinance 18 and Examinations ordinance 31.
- (b) If a candidate fails, repetition of course work shall be as per university Ph.D. ordinance 18 and Examinations ordinance 31.

8. REGISTRATION OF THE STUDENT (As per Ph.D Ordinance 18)

After successful completion of the Ph.D. course work the students shall submit the copy of the certificate of the course work and synopsis of the proposed research work in the prescribed Proforma to the University within two months from the date of declaration of result of the Ph.D. course work.

The University shall conduct the meeting of the **Research Degree Committee (RDC)** consisting of the following members:

- (i) Vice Chancellor or his nominee - Chairman
- (ii) Dean of the Faculty.
- (iii) Head of the University Teaching Department/School of Studies in the subject.
- (iv) Chairman, Board of Studies in the Subject.
- (v) One external subject expert of the rank of University Professor to be appointed by the Vice Chancellor, ordinarily out of a panel of 5 experts given by the Chairman of the Board of Studies concerned. The term of panel shall be coterminous with the Chairman Board of Studies.

External expert and two other members shall form the quorum.

The candidate shall make an oral presentation of his/ her proposed research work before RDC.

Note: - On the request of the supervisor, Vice Chancellor may permit him / her to be present as an observer during the oral presentation of his/ her candidate.

The RDC shall recommend the topic of research and the date of registration of the candidate for the Ph.D. degree. On approval by the RDC, the candidate shall be registered and enrolled as a Ph.D. student from the date on which candidate deposited the registration fee or as decided by RDC whichever is later. Candidate will also be required to pay regular tuition, library, IT centre and laboratory fees (six monthly) during his research tenure.

Provided that, if the RDC approves the topic and suggests a minor change, then the candidate shall be allowed to submit a revised synopsis through the Chairperson, BOS and Dean of the faculty.

If the RDC does not approve/recommend a candidate for registration to Ph.D. Candidate shall be allowed to make an oral presentation again in the next RDC. In such cases, date of registration shall be as per the recommendation of RDC.

Provided that, if candidate fails to be present or satisfy the RDC for the second time, his / her case will be rejected / cancelled. In such case, the caution money deposited by the candidate shall be refunded.

A candidate shall pursue his/her research at the allotted research centre.

In case of any dispute in the RDC regarding allied subjects of interdisciplinary nature, the case should be referred to the Academic council. The Vice Chancellor may constitute a committee in this regard and the report of the committee should be placed before the Academic council/standing committee for decision.

The meeting of the Research Degree Committee shall be held in the University Office twice a year preferably in a gap of six months. The committee shall recommend the eligibility of the person for the appointment as Supervisor/ Co-supervisor and prepare a list accordingly. This list shall be available with the Registrar.

Provided that, a candidate permitted to work in a research establishment recognized by the university shall be required to take one Supervisor/ Co-Supervisor from the institution/ research establishment where the candidate is actually working.

Also provided that, a candidate may be permitted to carry out his practical work in a Research Institution/Research Laboratory/Laboratory of a University for the purpose, under the supervision of a Scientist/ Teacher of the Institution who may or may not be the Co-supervisor of the candidate.

9. OTHER GENERAL RULES (As per Ph.D Ordinance 18)

SCHOOL OF PHYSICAL EDUCATION
DEVI AHILYA UNIVERSITY, INDORE

Ph.D. Course Work

Paper No – (T- 01)

Research Methodology (04 Credits)

Unit – I- Introduction to Research

- a. Location of Research Problem
- b. Criteria for Selecting a Problem
- c. Scientific and Unscientific methods of problem solving
- d. The parts of a Research Proposal and Research Report
- e. Writing the Proposal and Report

Unit – II –Types of Research in Physical Education and Exercise Science

- a. Analytical Research (Historical, Philosophical, Reviews and Research Synthesis)
- b. Descriptive Research (Surveys and Case Studies)
- c. Experimental Research (Internal and External Validity threats and control for internal and external validity)

Unit – III – Ethical Issues in Research

- a. Seven Areas of Scientific Dishonesty
- b. Mistakes Vs Misconduct
- c. Copyright Issues
- d. Protecting Human Subjects
- e. Protecting Animal Subjects

Unit – IV - Statistical Techniques Used in:

- a. Descriptive Statistics
 - i. Use of Measures of Central Tendency and Variability
 - ii. Use and Calculation of Standard Scores
- b. Comparative Statistics
 - i. Two Way ANOVA
 - ii. ANCOVA – (Analysis of Co- Variance)
 - iii. Post Hoc Test of Significance (Scheffe's, LSD, Tukey HSD)
- c. Relationship Statistics
 - i. Concept of Partial and Multiple Correlation
 - ii. Concept Two Way Regression Analysis
- d. Non Parametric Statistics
 - i. Chi Square and Contingency Table
 - ii. Rank Order Correlation

Unit – V – Practical Approach to Statistical Computation Using the Software

- a. Creating a Data File
- b. Defining variables and its Properties
- c. Computation of Descriptive Statistics (Mean, Standard Deviation, Skewness, Kurtosis, Z Scores etc.)
- d. Computation of Independent and Paired Sample “ t” Test
- e. Computation of One Way and Two Way ANOVA
- f. Computation of ANCOVA
- g. Computation of Correlation and Correlation Matrix
- h. Computation of Chi Square

References: (Research)

1. Baumgartner, T.A., Strong, C.H., & Hensley, L.A. (2000) Conducting and reading research in health and human performance (3 rd ed.) Boston : Mc. Graw – Hill.
2. Berg, K.E. & Latin, R.W. (1994). Essentials of modern research methods in health, physical education and recreation. Englewood Cliffs, NJ: Prentice-Hill.
3. Best, J.W., Kxahn, J.V. (1998). Research in education (8th ed.) Boston. Allyn & Bacon.
4. Bogdan, R. & Biklen, S. (1997). Qualitative research for education (3 rd ed.) Boston: Allyn and bacon.
5. Compbell, D.T. & Stanley, J.C. (1963). Experimental and quasi-experimental designs for research, Chicago: Rand McNally.
6. Dishman, R.K., Heath, G., & Washburn, R. (2002). Physical activity epidemiology. Champaign, IL: Human Kinetics.
7. George, D. & Mallery, P. (1999) SPSS for Windows: Step by step. Boston: Allyn and bacon.
8. Leery, P.D. (1993) Practical research: Planning and design. (3 rd ed.) New York: Macmillan Publishing.
9. Husk, S.W., & Cornier, W.H. (1996) Reading statistics and research (2 nd ed.) New York: ;Harper Collins.
10. Hyllegard, R., Mood, D.P., & Morrow, J.R. (1996) Interpreting research in sport and exercise science. St. Louis : Mossy.
11. Locke, L.L. (1989) Qualitative research as a form of scientific inquiry in sport and physical education. Research quarterly for exercise and sports, 60, 1-20.
12. Marshall, C., & Rossman, G.R. (1999). Designing qualitative research (3 rd ed.) Thousand Oaks, CA: Sage.
13. Rothstein, A.L. (1985). Research design and statistics for physical education Englewood Cliffs, NJ: Prentice Hall.

References: (Statistics)

1. Clarke, H.H. and Clarke, D.H. **Advanced Statistics with application to Physical Education**, London : Prentice Hall, Inc.
2. Garret, H. E. and Woodworth R. S. **Statistics in Psychology and Education**, Bombay: Allied Pacific Co. Ltd., 1958.
3. Guilford, J.P. **Fundamental Statistics in Psychology and Education**, New York: McGraw Hill Book Co., Inc., 1956.
4. SPSS Manual.

SCHOOL OF PHYSICAL EDUCATION
DEVI AHILYA UNIVERSITY, INDORE

Ph.D. Course Work
Paper No – (T- 02)

Review of Published Research in the relevant field (03 Credits)

Review of related literature shall be done on the basis of critical analysis of 01 thesis and 02 research papers separately for internal and external assessment. Analysis shall be done as per the specified format issued by the department.

SCHOOL OF PHYSICAL EDUCATION
DEVI AHILYA UNIVERSITY, INDORE

Ph.D. Course Work

Paper No – (T- 03)

Computer Applications (03 Credits)

Unit – I – Spreadsheet Tools (Using Microsoft Excel)

- a. Introduction to Spreadsheet Application
- b. Using Features, Formula and Functions
- c. Data Storage and Features of Statistical Data Analysis
- d. Generating Chart and Graphs
- e. Preparing Small Statistical Programs

Unit – II – Presentation Tools (Using Microsoft PowerPoint)

- a. Introduction to Presentation Tools
- b. Using Features and Functions
- c. Creating Presentation , Adding Effects, Customizing Presentation, Editing Presentation, Inserting Pictures/Graphs/Video, Creating Note Page and Showing Presentation

Unit – III – Web Search and Using Electronic Journals

- a. Introduction to internet
- b. Using Various Search Engin Like Googles, Google Scholar, Yahoo etc
- c. Collecting the Domain name of Various Websites Related with Physical Education Sports and Research.
- d. Using Electronic Journals Related to the Subjects and Area
- e. Using Shodh Ganga, and Infflibinet (Infonet Digital Library, Indcat and e Education)

References:

1. Computer Fundamentals: Dr. V Rajaraman.
2. Fundamentals of Information Technology : Chetan Shrivastava, kalyani Publisers
3. MS –Office: Ron Mansfield , BPB Publication.
4. MS-Word 2000: Thumb Rules and: Dr.Snigdha Banerjee, New Age International Publication.
5. SPSS Manual.

SCHOOL OF PHYSICAL EDUCATION
DEVI AHILYA UNIVERSITY, INDORE

Ph.D. Course Work
Paper No – (T- 04)

Advance course in Physical Education (03 Credits)

Unit – I – Sports Psychology

- a. Latest Trends in Sports Psychology.
- b. Different tools used for research.
- c. Psychological Profiling of Sportsmen/Athletes, etc.
- d. Course Related Practical Work, Field Work.

Unit – II – Sports Biomechanics

- a. Latest Trends in Sports Biomechanics.
- b. Different tools used for research in the field of Biomechanics.
- c. Different tools of Biomechanical Analysis.
- d. Course Related Practical Work, Field Work.

Unit – III – Measurement and Evaluation

- a. Latest trends in Evaluation in Physical Education
- b. Different tools of evaluation in Physical Education.
- c. Course Related Practical Work, Field Work.

Unit – IV – Exercise Physiology

- a. Latest Trends in the field of Exercise Physiology.
- b. Different tools used for research in the field of Exercise Physiology.
- c. Course Related Practical Work, Field Work.

References:

1. Larson, L.A. and Yocum, R.D. Measurement and Evaluation in Physical, Health and Recreation Education St . Louis :C.V. Mosby Co.1951.
2. Mathew,Donald,Measurement in physical Education Lond: W,B.Saunders Co. 1973.5th End.
3. Clarke, H Application of Measurement in Health and Physical Education Prentice Hall Inc . 6th Edn .1987.
4. Phillips D. allen end homak; E. james Measurement end Evaluation in physical Education john Wiley end sons; new york, chichester, Brisbane, toranto, 1978.
5. Alderman R.S. Psychological Behavior in Sports Philadelphia London , Saunders company , 1974
6. Butt, Dorce Susan psychology of sports , New York
7. Cratty Bryant J. Movement Behavior and Motor Learning Philadelphia lea and febiger 1975
8. Cratty , Bryant J. Psychology of Contemporary Sports Englewood , Cliffs , N.J. Prentice Hall Inc 1975
9. Cratty Bryant J. Psychology and physical activity Englewood cliffs N.J. prentice Hall Inc 1965
10. Gray L. Soderberg. KINESIOLOGY Application of Pathological Motion Philadelphia Williams & Wilkins
11. De-Varies, H.A. : Physiology of Exercise for Physical Education and Athletics, Stapes Press, London, 1976.
12. Karpovich. P.V. and Sinning. W.E. : Physiology of Muscular Activity .