

॥ सा विद्या या विमुक्तये ॥



स्वामी रामानंद तीर्थ मराठवाडा विद्यापीठ, नांदेड

“ज्ञानतीर्थ” परिसर, विष्णुपूरी, नांदेड - ४३१६०६ (महाराष्ट्र)

SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY NANDED

“Dnyanteerth”, Vishnupuri, Nanded - 431606 Maharashtra State (INDIA)

Established on 17th September 1994 – Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'A' Grade

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आंतर-विद्याशाखीय अभ्यास विद्याशाखेतील
विविध संलग्नित महाविद्यालयत चालणारे
पदव्युत्तर विषयांचे सी.बी.सी.एस. पॅटर्नचे
अभ्यासक्रम शैक्षणिक वर्ष २०-२१ पासून
लागू करण्याबाबत.

प रि य त्र क

या परिपत्रकान्वये सर्व संबंधितांना कळविण्यात येते की, दिनांक २० जून २०२० रोजी संपन्न झालेल्या ४७ व्या मा. विद्या परिषद बैठकीतील विषय क्र. १३/४७-२०२० च्या ठरावानुसार प्रस्तुत विद्यापीठाच्या संलग्नित महाविद्यालयांतील आंतर-विद्याशाखीय अभ्यास विद्याशाखेतील पदव्युत्तर स्तरावरील खालील विषयांचे C.B.C.S. (Choice Based Credit System) Pattern नुसारचे अभ्यासक्रम शैक्षणिक वर्ष २०-२१ पासून लागू करण्यात येत आहेत.

- 1) M.A- II Year Fashion Design
- 2) M.A- II Year Music
- 3) Master of Library and Information Science.(Revised)
- 4) M.A- II Year Computer Animation, Vfx & Web.
- 5) Master of Journalism & Media Science.
- 6) M.P.Ed. II Year.
- 7) M.S.W. II Year. (Affiliated College)

सदरील परिपत्रक व अभ्यासक्रम प्रस्तुत विद्यापीठाच्या www.srtmun.ac.in या संकेतस्थळावर उपलब्ध आहेत. तरी सदरील बाब ही सर्व संबंधितांच्या निदर्शनास आणून द्यावी.

‘ज्ञानतीर्थ’ परिसर,

विष्णुपूरी, नांदेड - ४३१ ६०६.

जा.क्र.: शैक्षणिक-०१/परिपत्रक पदव्युत्तर-नीजी.ए.एस
अभ्यासक्रम/ २०२०-२१ ६७०

दिनांक : ०१.०९. २०२०.

प्रत माहिती व मुद्रीत करण्याची सूचना :

- १) मा. कुलसचिव यांचे कार्यालय, प्रस्तुत विद्यापीठ.
- २) मा. संचालक, परीक्षा व नूतनगणन मंडळ, प्रस्तुत विद्यापीठ.
- ३) प्राचार्य, सर्व संबंधित संलग्नित महाविद्यालये, प्रस्तुत विद्यापीठ.
- ४) उ-कुलसचिव, पदव्युत्तर विभाग, प्रस्तुत विद्यापीठ.
- ५) साहाय्यक कुलसचिव, पात्रता विभाग, प्रस्तुत विद्यापीठ.
- ६) सित्म एक्सटेंड, शैक्षणिक विभाग, प्रस्तुत विद्यापीठ.



स्वाक्षरित/—

उपकुलसचिव

शैक्षणिक (१-अभ्यासक्रम) विभाग

**SWAMI RAMANAND TEERTH MARATHWADA
UNIVERSITY, NANDED.**



**MASTER OF PHYSICAL EDUCATION (M.P.ED)
COURSE STRUCTURE**

Choice Based Credit System

(With effects from the academic year 2019-20)

**SCHOOL OF EDUCATIONAL SCIENCES,
SRTM UNIVERSITY NANDED.**

**SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,
NANDED
Choice Based Credit System (CBCS)**

M.P.ED COURSE

Salient features of the Programme:

- Elective and Skill Enhancement Course are offered in each semester.
- The course enhances the Competency, attitude and skills related knowledge to Physical Education.
- Course offers wide range of choices to select electives from the group of courses of Electives.
- The course is designed to implemented as per CBCS Pattern .
- The course is designed to enhance the abilities to work in the Practical and theoretical field of Physical Education.

Programme Outcomes

The following Programme Outcomes are as:

- PO1. Provides opportunities in a career in physical education or health education
- PO2. Physical education teachers and Coaches, teach students the basic rules of games and sports and manage the team during competitions or games with other teams.
- PO3. Physical education teacher, teach students about various mental, physical, emotional and health issues in a classroom setting.
- PO4. Provide information and lead discussions on topics such as nutrition, tobacco use, drug and alcohol abuse, and medicine.
- PO5. PE or gym teachers, teach students the rules and motor skills necessary to participate in individual and team sports.
- PO6. Provides, chance to broaden their knowledge and explore other career possibilities within the sports industry.
- PO7. Physical education teacher, instructs students on principles of fitness and health programme, nutrition values and psychological well-being.
- PO8. Fitness professionals assist clients with cardiovascular workouts, strength training and stretching.
- PO9. Opportunity of physical education in the field of sports physiotherapy, sports trainer and life guide in aquatic sports.
- PO10. To Conduct research in the field of physical education and sports Sciences.

Programme outline:

The courses designed for Master Degree of Physical Education in four semester of Two years Programme. These courses cover organization and Management in Physical Education and Practical of Physical Education including Yogic Sciences, Exercise Physiology, Test measurement , Sports Training, Health Education, Psychology in Physical Education and Practical including officiating, Coaching and Teaching etc. in all semesters.

M.P.ED COURSE STRUCTURE (CBCS): 2017-18

Semester - I

Part A :Theoretical Course

Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
Core Course						
MPCC-101	Research Process in Physical Education & Sports Sciences	4	4	50	50	100
MPCC-102	Physiology of Exercise.	4	4	50	50	100
MPCC-103	Yogic Sciences	4	4	50	50	100
Open Elective/ Elective Course (Anyone)						
MPEC-101	Tests, Measurement and Evaluation in Physical Education	4	4	50	50	100
MPEC-102	Sports Technology					
MPOEC-103	Teaching Competencies*	4	4	50	50	100
Part -B Practical Course						
MPPC-101	Track and Field 1. Running Events *2. Gymnastics *3. Swimming. (*Any one)	4	2	25	25	50
MPPC-102	Laboratory Practical Sports Psychology, Physiology of Exercise, Sports Biomechanics and Kinesiology (Two practicals for each subject)	4	2	25	25	50
MPPC-	Yoga					

103	*Aerobics/ Self Defence Techniques-Martial Arts, Taek-won-do/ Shooting/ Archery - (*Any One activity + Yoga)	4	2	25	25	50
MPPC-104	Adventure Activities/ Mass demonstration Activities-	4	2	25	25	50
MPSC-101	Seminar		1	25		
Total						625

***Open elective courses may be opt by any students from the campus schools.**

Semester -II

Part A: Theoretical Course						
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
Core Course						
MPCC-201	Applied Statistics in Physical Education & Sports	4	4	50	50	100
MPCC-202	Sports Biomechanics & Kinesiology	4	4	50	50	100
MPCC-203	Athletic Care and Rehabilitation	4	4	50	50	100
Open Elective/ Elective Course (Anyone)						
MPEC-201	Sports Journalism and Mass Media	4	4	50	50	100
MPEC-202	Sports Management and Curriculum Designs in Physical Education					
MPOEC-203	Yoga Education*	4	4	50	50	100
Part -B Practical Course						
MPPC-201	Track and Field II: Jumping events + Hurdles *Gymnastics/ *Swimming (*any one)	4	2	25	25	50
MPPC-202	Games Specialization- Kabaddi, Kho-Kho, Badminton/ Table Tennis/ Tennis/ Squash/ Baseball/ Volleyball/ Basketball/ Cricket/ football/ Handball/ Hockey/ Netball/ Softball (Any two games.)	4	2	25	25	50
MPPC-203	Teaching Lessons of Indigenous Activities and Sports- 5 Lessons(4 Internal & 1 External)	4	2	25	25	50
MPPC-204	Class room Teaching Lessons on theory of different Sports & Games- 5 Lessons (4 Internal & 1 External)	4	2	25	25	50
MPSC-201	Seminar		1	25		25
Total						625

***Open elective courses may be opt by any students from the campus schools.**

Semester - III

Part A: Theoretical Course						
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
Core Course						
MPCC-301	Scientific Principles of Sports Training	4	4	50	50	100
MPCC-302	Sports Medicine	4	4	50	50	100
MPCC-303	Health Education and Sports Nutrition	4	4	50	50	100
Open Elective/ Elective Course (Anyone)						
MPEC-301	Sports Engineering	4	4	50	50	100
MPOEC-302	Physical Fitness and Wellness*					
Part-B Practical Course						
MPPC-301	Track and Field III: Throwing Events +introduction of Heptathlon event. *Gymnastics/*Swimming (* Any One)	4	2	25	25	50
MPPC-302	Games Specialization- III Boxing/ Fencing/ Judo/ Karate/ Wrestling/ Wushu (Any Two)	4	2	25	25	50
MPPC-303	Coaching Lessons of Track and Field/ Gymnastics/ Swimming - 5 Lessons (4 Internal & 1 External)	4	2	25	25	50
MPPC-304	Coaching Lessons of Game Specialization - 5 Lessons (4 Internal & 1 External)	4	2	25	25	50
MPSC-301	(Skill) Group Discussion		1	25		25
Total						625

*Open elective courses may be opt by any students from the campus schools.

Semester - IV

Part A: Theoretical Course						
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
Core Course						
MPCC-401	Information & Communication Technology (ICT) in Physical Education	4	4	50	50	100
MPCC-402	Sports Psychology	4	4	50	50	100
MPCC-403	Dissertation	4	4	50	50	100
Open Elective/ Elective Course (Anyone)						
MPEC-401	Education Technology in Physical Education	4	4	50	50	100
MPOEC-402	Value and Environmental Education*					
Part -B Practical Course						
MPPC-401	Track and Field Introduction of Decathlon event *Gymnastics *Swimming Practical Skill (*any one)	4	2	25	25	50
MPPC-402	Games Specialization- Practical skills (any two)	4	2	25	25	50
MPPC-403	Officiating Lessons of Track and Field/ Gymnastic/ Swimming -5 Lessons (4 Internal & 1 External)	4	2	25	25	50
MPPC-404	Officiating Lessons of Game Specializations -5 Lessons (4 Internal & 1 External)	4	2	25	25	50
MPSC-401	(Skill) Life Skill		1	25		25
Total						625

***Open elective courses may be opt by any students from the campus schools.**

Total Credits: Semester I (25) | Semester II (25) | Semester III (25) | Semester IV (25) = 100 Credits

1. Modules related to specialization courses will be provided by NCTE
2. Subject to timely changes as per the NCTE guidelines

Semester I
Theory Courses

MPCC-101 RESEARCH PROCESS IN PHYSICAL EDUCATION AND SPORTS SCIENCES

Course Outcomes (CO)

The course outcome of the paper are as :

- CO1. To enhance the competency of research ability of students
- CO2. To know about the research methods and types
- CO3. To create the awareness regarding research for enhances the quality of higher education.
- CO4. Able to formulate the hypothesis
- CO5. To increase the writing ability for research reporting

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. Quantitative and Qualitative Research

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, Quasi Experimental design

UNIT IV – Philosophical Research.

Meaning & Definition of Philosophical Research, Steps in Philosophical Research, Philosophical Problem in Sports, Tools of Philosophical Research, steps of Philosophical Research

UNIT V – Sampling

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

UNIT-Hypothesis

Meaning & definition of Hypothesis, Characteristics of Good Hypothesis, Types of Hypothesis, Formulation of Hypothesis, Hypothesis testing, Ethical Issue in Research, Steps of Hypothesis testing

UNIT VI – Research Proposal and Report

Chapterisation 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. London; Routledge Press
Jerry R Thomas & Jack K Nelson (2000) Research Methods in Physical Activities; Illinois; Human Kinetics;
Kamlesh, M. L. (1999) Research Methodology in Physical Education and Sports, New Delhi; New Age International, Pvt. Ltd.
A. K. (1995) Thesis Writing Format, Chennai; Poompugar Pathippagam
Rothstein, 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

Semester I Theory Courses

MPCC-102 PHYSIOLOGY OF EXERCISE

Course Outcomes (CO)

The Course outcome of the paper are as :

- CO1. To know the role of exercise physiology on sports performance
- CO2. To know about the Effects of exercise on different system of human body
- CO3. To create the awareness regarding research in the field of exercise physiology
- CO4. Able to test the Physiological Parameters
- CO5. To know about the function of internal human body

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 – Cardiac Ejection fraction, Effect of exercises and training on the Cardiovascular 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.

UNIT-VI Neuromuscular Concept.

Meaning of Neuron & Motor Unit, Transmission of Nerve Impulses, Neuromuscular Junction, Proprioception, Kinaesthesia, Tone, Posture & Equilibrium, Afferent and Efferent Nerve, Effects of Exercise & Training on Nervous System.

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

REFERENCES:

- Amrit Kumar, R, Moses. (1995). Introduction to Exercise Physiology. Madras: Poompugar Pathipagam.
- Beatra 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. Murchc. (2007). Elementary Physiology. Hyderabad: Sports Publication. William, D.

Mc Aradle. (1996). Exercise Physiology, Energy, Nutrition and Human

Performance. Philadelphia: Lippincott Williams and Wilkins Company.

Semester I Theory Courses

MPCC-103 Yogic Sciences

Course Outcomes (CO)

The Course outcome of the paper are as :

CO1. To know the role of Yogic Sciences on sports performance

CO2. To know about the benefits of Pranayama and Asana on health of the Athletes

CO3. To create the awareness regarding research in the field of Yogic Sciences

CO4. Able to perform the various Yogic Practices

CO5. To know about the benefits of Kriya and Mudra of Yoga

CO6. To established the relationship of Yoga and Sports

Unit I – Introduction

Meaning and Definition of Yoga. Astanga Yoga: Yama, Niyama, Aasna, Pranayama, Prathyahara, Dharana, Dhyana, Samadhi, Concept of Yogic Practices; Principles of Breathing – Awareness – Relaxation, Sequence – Counter pose – Time – Place – Clothes – Bathing – Emptying the bowels – Stomach – Diet – No Straining – Age – Contra- Indication – Inverted asana – Sunbathing.

Unit II – Aasanas and Pranayam

Loosening exercise: Techniques and benefits. Asanas: Types- Techniques and Benefits, Surya Namaskar: Methods and benefits. Pranayama: Types- Methods and benefits. Nadis: Meaning, methods and benefits, Chakras: Major Chakras- Benefits of clearing and balancing Chakras.

Unit III – Kriyas

Shat Kriyas- Meaning, Techniques and Benefits of Ncti – Dhati – Kapalapathi- Trataka – Nauli – Basti, Bandhas: Meaning, Techniques and Benefits of Jalendra Bandha, Jihva Bandha, Uddiyana Bandha, Mula Bandha.

Unit IV – Mudras

Meaning, Techniques and Benefits of Hasta Mudras, Asamyukta hastam, Samyukta hastam , Mana Mudra, Kaya Mudra, Banda Mudra, Adhara Mudra. Meditation: Meaning, Techiques and Benefits of Meditation – Passive and active, Saguna Meditation and Nirguna Meditation.

Unit V – Yoga and Sports

Yoga Supplemental Exercise – Yoga Compensation Exercise – Yoga Regeneration Exercise- Power Yoga. Role of Yoga in Psychological Preparation of athletes: Mental Well-being, Anxiety, Depression Concentration, Self-Actualization. Effect of Yoga on Physiological System: Circulatory, Skeletal, Digestive. Nervous, Respiratory, Excretory System.

Note: Laboratory Practicals be designed and arranged internally.

REFERENCE:

- George Feuerstein, (1975). Text Book of Yoga. London: Motilal Bansaridass Publishers (P) Ltd.
Gore, (1990), Anatomy and Physiology of Yogic Practices. Lonavata: Kanchan Prakashan.
Helen Purperhart (2004), The Yoga Adventure for Children. Netherlands: A Hunter House book.
Iyengar, B.K.S. (2000), Light on Yoga. New Delhi: Harper Collins Publishers.
Karbelkar N.V.(1993) Patanjali Yogasutra Bhashya (Marathi Edition) Amravati: Hanuman Vyayam Prasarak Mandal
Kenghe. C.T. (1976). Yoga as Depth-Psychology and para-Psychology (Vol-I): Historical Background, Varanasi: Bharata Manishai.
Kualyananada Swami & S.L. Vinekar, (1963), Yogic Therapy – Basic Principles and Methods. New Delhi: GovL. of India, Central Health Education and Bureau.
Moorthy A.M.& Alagesan. S. (2004) Yoga Therapy. Coimbatore: Teachers Publication House.
Swami Kualayanda, (1998), Asanas. Lonavala: Kaivalyadhama.
Swami Satyananada Sarasvati. (1989), Asana Pranayama Mudra Bandha. Munger: Bihar School of Yoga.
Swami Satyananda Saraswathi. (1984), Kundalini and Tantra, Bihar: Yoga Publications Trust.
Swami Sivananda, (1971), The Science of Pranayama. Chennai: A Divine Life Society Publication.
Thirumalai Kumar. S and Indira. S (2011) Yoga in Your Life, Chennai: The Parkar Publication.
Tiwari O.P. (1998), Asanas-Why and How. Lonavala: Kaivalyadham.

Semester I

Theory Courses

MPEC-101

TEST, MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION

(Elective)

Course Outcomes (CO)

The Course outcome of the paper are as :

- CO1. To know the importance of Test, Measurement and Evaluation on sports performance
- CO2. To know about the benefits of Motor and Physical Fitness of the Athletes
- CO3. To create the awareness regarding research in the field of Yogic Sciences
- CO4. Able to perform the various test related to skills in various sports
- CO5. To know about that how to conduct test and measurement of different sports skills
- CO6. To established the establishing Validity, Reliability, Objectivity and Norms of skills

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 Sports 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 indoor 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 Publishing 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 Publications

Semester I
Theory Courses

MPEC-102 SPORTS TECHNOLOGY (Elective)

Course Outcomes (CO)

The Course outcomes of the paper are as :

- CO1. To know the importance of sports technology on sports performance
- CO2. To know about the benefits of scientific materials of the Athletes for sports performance
- CO3. To create the awareness regarding research in the field of Sports Technology
- CO4. Able to perform the various test related to skills in various sports
- CO5. To Know about that benefits of modern equipment's for performance and minimize the sports related injuries

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, closed-cell 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 Equipment's: Balls: Types, Materials and Advantages, Bat/Stick/ Racquets: Types, Materials and Advantages. Clothing and shoes: Types, Materials and Advantages. Measuring Equipment: Throwing and Jumping Events. Protective equipment's: 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.

Walia, J.S. Principles and Methods of Education (Paul Publishers, Jullandhar), 1999.

Kochar, S.K. Methods and Techniques of Teaching (New Delhi, Jullandhar, Sterling Publishers Pvt. Ltd.), 1982

Kozman, Cassidy and Jackson. Methods in Physical Education (W.B. Saunders Company, Philadelphia and London), 1952.

Semester II Theory Courses

Course Outcomes (CO)

The Course outcomes of the paper are as :

- CO1. To know the importance of applied statistics in physical education
- CO2. To know about the benefits of applied statistics for research of Physical education.
- CO3. To create the awareness regarding research in the field of applied statistics
- CO4. Able to apply the different statistical test for hypothesis testing
- CO5. To Know about that benefits of Applied statistics in illustration of sports related data.

MPCC-201 APPLIED STATICTICS IN PHYSICAL EDUCATION AND 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 from 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 , ANCOVA, LSD and Scheffee Post Hock Test Regression Analysis.

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.

Semester II Theory Courses

MPCC-202 SPORTS BIOMECHANICS AND KINSESIOLGY

Course Outcomes (CO)

The Course outcomes of the paper are as :

- CO1. To know the importance of sports biomechanics and Kinesiology on sports performance
- CO2. To know about the various physical law of motion for reducing the Injuries and enhancement of sports performance
- CO3. To create the awareness regarding research in the field of Sports Biomechanics
- CO4. To know about the Qualitative and Quantitative Analysis of sports related skills
- CO5. To know about mechanical analysis of sports related skills

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. Principles 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.

UNIT V – Movement Analysis

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

UNIT VI- Mechanical Principles Involvement.

Walking, Running, Jumping, Throwing, Hitting, Lifting, Catching, Pulling, Pushing & climbing.

Note: Laboratory practical should be designed and arranged for students internally.

REFERENCE:

- Hoffman S.J. Introduction to Kinesiology (Human Kinesiology publication In.2005. Steven Roy, & Richard Irvin. (1983). Sports Medicine. New Jersey: Prentice hall. Thomas. (2001). Manual of structural Kinesiology, New York: Me Graw Hill. Uppal A.K. Lawrence Mamta MP Kinesiology(Friends Publication India 2004)
Uppal, A (2004), Kinesiology in Physical Education and Exercise Science, Delhi Friends publications.
Williams M (1982) Biomechanics of Human Motion, Philadelphia; Saunders Co.

**Semester II
Theory Courses**

MPCC-203 ATHLETIC CARE AND REHABILITATION

Course Outcomes (CO)

The Course outcomes of the paper are as :

- CO1. To know the importance of Athletic care and rehabilitation of sports person
- CO2. To know about the rehabilitation process of injured athletes
- CO3. To create the awareness regarding research in the field of Sports Biomechanics
- CO4. To know about that how to care about Athletes to avoiding sports injuries
- CO5. To Know about the different technique related to relaxation and rehabilitation of Athletes

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 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.

Semester II Theory Courses

MPEC-201 SPORTS JOURNALISM AND MASS MEDIA (Elective)

Course Outcomes (CO)

The learning outcomes of the paper are as :

- CO1. To know the importance of sports journalism and mass media for sports
- CO2. To know about the role of sports journalism and mass media for active participation in sports
- CO3. To create the awareness regarding research in the field of sports journalism and mass media
- CO4. To know about that how to write the report for publishing in news papers
- CO5. To know about the technique for highlighting the reports in sports

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

Semester II Theory Courses

MPEC-202 SPORTS MANAGEMENT AND CURRICULUM DESIGN IN PHYSICAL EDUCATION (Elective)

Course Outcomes (CO)

The learning outcome of the paper are as :

- CO1. To Know the importance of sports Management and curriculum Design
- CO2. To know about how to organised sports competition
- CO3. To create the awareness regarding research in the field of sports Management and curriculum Design
- CO4. To know about that intramural and extramural tournaments
- CO5. To know about the role of curriculum design for effective teaching and learning in physical education

UNIT I – Introduction to Sports Management

Definition, Importance. Basic Principles and Procedures of Sports Management. Functions of Sports Management. Personal Management: Objectives of Personal Management, Personal Policies, Role of Personal Manager in an organization, Personnel recruitment and selection.

UNIT II – Programme Management

Importance of Programme development and the role of management, Factors influencing programme development. Steps in programme development, Competitive Sports Programs, Benefits, Management Guidelines for School, Colleges Sports Programs, Management Problems in instruction programme, Community Based Physical Education and Sports program.

UNIT III – Equipments and Public Relation

Purchase and Care of Supplies of Equipment, Guidelines for selection of Equipments and Supplies, Purchase of equipments and supplies. Equipment Room, Equipment and supply Manager. Guidelines for checking, storing, issuing, care and maintenance of supplies and equipments. Public Relations in Sports: Planning the Public Relation Program – Principles of Public Relation – Public Relations in School and Communities – Public Relation and the Media.

UNIT IV – Curriculum

Meaning and Definition of Curriculum. Principles of Curriculum Construction: Students centred, Activity centred, Community centred, Forward looking principle, Principles of integration, Theories of curriculum development, Conservative (Preservation of Culture), Relevance, flexibility, quality, contextually and plurality. Approaches to Curriculum; Subject centred, Learner centred and Community centred, Curriculum Framework.

UNIT V – Curriculum Sources

Factors that affecting curriculum: Sources of Curriculum materials – text books – Journals –Dictionaries, Encyclopaedias, Magazines, Internet. Integration of Physical Education with other Sports Sciences – Curriculum research, Objectives of Curriculum research – Importance of Curriculum research. Evaluation of Curriculum, Methods of evaluation.

Reference:

- Aggarwal, J.C (1990). Curriculum Reform in India – World overviews, Doaba World Education Series – 3 Delhi: Doaba House, Book seller and Publisher.
- Arora, G.L. (1984): Reflections on Curriculum, New Delhi: NCERT.
- Bonnic, L. (1991). The Management of Sports. St. Louis: Mosby Publishing Company, Park House.
- Bucher A. Charles, (1993) Management of Physical Education and Sports (10th ed.,) St. Louis: Mobsy Publishing Company.
- Carl, E, Willgoose. (1982. Curriculum in Physical Education, London: Prentice Hall.
- Chakraborty & Samiran. (1998) . Sports Management. New Delhi: Sports Publication. Charles, A, Bucher & March, L, Krotee. (1993). Management of Physical Education and Sports. St. Louis: Mosby Publishing Company.
- Chelladurai, P. (1999). Human Resources Management in Sports and Recreation. Human Kinetics.
- John, E, Nixon & Ann, E, Jewett. (1964). Physical Education Curriculum, New York: The Ronald Press Company.
- McKernan, James (2007) Curriculum and Imagination: Process, Theory, Pedagogy and Action Research,. U.K. Routledge
- NCERT (2000). National Curriculum Framework for School Education, New Delhi: NCERT.
- NCERT (2000). National Curriculum Framework for School Education, New Delhi: NCERT.
- NCERT (2005). National Curriculum Framework, New Delhi: NCERT.

NCERT (2005). National Curriculum Framework-2005, New Delhi: NCERT.
Williams, J.F. (2003). Principles of Physical Education. Meerut: College Book House.
Yadvinder Singh. Sports Management, New Delhi: Lakshay Publication.

Semester III Theory Courses

MPCC-301 SCIENTIFIC PRINCIPLES OF SPORTS TRAINING

Course Outcomes (CO)

The course outcomes of the paper are as :

- CO1. To know the importance of Scientific Principles of sports training
- CO2. To know about scientific principle for enhancement of sports performance
- CO3. To create the awareness regarding research in the field of Scientific Principles of sports training
- CO4. To know about various technique for development of physical and motor fitness
- CO5. To know about the role of tactics and strategy for sports performance

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 - Training For Motor Components.

Strength – Forms Of Strength, Characteristics of Strength, Principles of Strength Training, Factors Determining Strength, and Strength Training For Children & women. Endurance – Forms Of Endurance, Characteristics of Endurance, Training means & methods & Factors determining endurance. Speed - Forms of Speed, Characteristics of Speed, Training means & methods & Factors determining Speed. Flexibility - Forms Of Flexibility, Characteristics of Flexibility, and Methods of Development of Flexibility Factors determining Flexibility. Coordinative Abilities – Characteristics of Coordinative Abilities, Importance of Coordinative Abilities & Training Methods.

UNIT-III- Planning of Competition.

Main & Build of Competition, Competition Frequency, Psychological Preparation of Competition, Short Terms & Long Terms Training Plans. Sports Talents Identification – Process & Procedure

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- Technical & Tactical Preparation.

Fundamentals & methods for the developments of Techniques, Stages of Technical Training, Causes & Correction of Faults, Methods of Tactical Training, Principles of Tactical Preparation, Technical & Tactical Preparation for Sports.

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

Semester III Theory Courses

MPCC-302 SPORTS MEDICINE

Course Outcomes (CO)

The course outcomes of the paper are as :

- CO1. To know the role of sports medicine for sports performance
- CO2. To know about adverse effects of doping in sports
- CO3. To create the awareness regarding research in the field of sports medicine
- CO4. To know about various technique for relaxation of sports person
- CO5. To Know about the various therapy for sports injuries

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 injuries.

UNIT VI – 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

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

REFERENCES:

- Christopher M. Norris. (1993). Sports Injuries Diagnosis and Management for Physiotherapists. East Kilbride: Thomson Litho Ltd.
- James, A. Gould & George J. Davies. (1985). Physical 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,

Semester III Theory Courses

MPCC-303 HEALTH EDUCATION AND SPORTS NURTITION

Course Outcomes (CO)

The Course outcome of the paper are as :

- CO1. To know the health education in physical education
- CO2. To know about effects of nutrition in sports performance
- CO3. To create the awareness regarding research in the field of sports nutrition
- CO4. To know about various communicable and non-communicable Disease.

CO5. To know about the health service and personal Hygiene of Students and athletes

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- Introduction to Sports 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 Nutrition and Weight 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:

- 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".
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Turner, C.E. "The School Health and Health Education".
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'The School Health Education" (Harber and Brothers, New York). Nutrition Encyclopedia,
edited by Delores C.S. James, The Gale Group, Inc. Boyd-Eaton S. et al (1989) The Stone
Age Health Programme: Diet and Exercise as Nature Intended. Angus and Robertson.
Terras S. (1994) Stress, How Your Diet can Help: The Practical Guide to Positive Health
Using Diet, Vitamins, Minerals, Herbs and Amino Acids, Thorons.

Theory Courses

MPEC-302 PHYSICAL FITNESS AND WELLNESS (Elective)

Course Outcomes (CO)

The course outcome of the paper are as:

- CO1. To know the sports concept and technique of Physical Fitness
- CO2. To know about role foods and Nutrition in sports performance
- CO4. To create the awareness regarding research in the field of physical fitness and wellness.
- CO5. To know about various techniques of Aerobic and anaerobic exercise and its benefits
- CO6. To Know about the flexibility exercise and its role on sports performance

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.

UNIT –VI- Physiological Aspects of Exercise & Sports.

Physiological Aspects of Developments of Strength, Endurance, Skills, Speed, Agility, & Co-Ordination. Concept of Physical Fitness & Physical Training, Warming Up, Conditioning, Fatigue, Work Capacity under Different Environmental Conditions – Hot, Cold, Humid & High Altitude. Oxygen Debt, Force, Expiratory Volume, Breathing Capacity, Blood Supply for Skeletal Muscles, Competitive Sports & Sex, Exercise & Aging.

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 Bedford row, London 1998

Dr. A.K. Uppal, Physical Fitness, Friends Publications (India), 1992. Warner W.K. Oeger & Sharon A. Hoeger, Fitness and Wellness, Morton Publishing Company, 1990.

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, Soho Square, London 1999

Robert Malt. 90 day fitness plan, D.K. publishing, Inc. 95, Madison Avenue, New York 2001

Semester IV

Theory Courses

MPCC-401 INFORMATION & COMMUNICATION TECHNOLOGY (ICT) IN PHYSICAL EDUCATION

Course Outcomes (CO)

The Course outcome of the paper are as :

- CO1. To Know the Information and communication Technology in physical education
- CO2. To know about role Information and communication Technology in class room teaching in physical education
- CO3. To create the awareness regarding research in the field of Information and communication Technology .
- CO4. To know about various fundamental of computers in physical education
- CO5. To know about the MS Office Applications in physical education

Unit I – Communication & Classroom Interaction

Concept, Elements, Process & Types of Communication
Communication Barriers & Facilitators of communication
Communicative skills of English - Listening, Speaking, Reading & Writing
Concept & Importance of ICT Need of ICT in Education

Scope of ICT: Teaching Learning Process, Publication Evaluation, Research and Administration

Challenges in Integrating ICT in Physical Education

Unit II – Fundamentals of Computers

Characteristics, Types & Applications of Computers
Hardware of Computer: Input, Output & Storage Devices
Software of Computer: Concept & Types
Computer Memory: Concept & Types
Viruses & its Management, Concept, Types & Functions of Computer Networks
Internet and its Applications
Web Browsers & Search Engines
Legal & Ethical Issues

Unit III – MS Office Applications

MS Word: Main Features & its Uses in Physical Education
MS Excel: Main Features & its Applications in Physical Education
MS Access: Creating a Database, Creating a Table, Queries, Forms & Reports on Tables and its Uses in Physical Education
MS Power Point: Preparation of Slides with Multimedia Effects
MS Publisher: Newsletter & Brochure

Unit IV – ICT Integration in Teaching Learning Process

Approaches to Integrating ICT in Teaching Learning Process
Project Based Learning (PBL)
Co-Operative Learning
Collaborative Learning
ICT and Constructivism: A Pedagogical Dimension

Unit V – E-Learning & Web Based Learning

E-Learning
Web Based Learning
Visual Classroom

REFERENCES:

- B. Ram, New Age International Publication, Computer Fundamental, Third Edition 2006
Brain under IDG Book. India (p) Ltd Teach Yourself Office 2000, Fourth Edition- 2001
Douglas E. Comer, The Internet Book, Purdue University, West Lafayette in 2005 Heidi Steel Low price Edition, Microsoft Office Word 2003- 2004
ITL Education Solution Ltd. Introduction to information Technology, Research and Development Wing-2006
- Pradceep K. Sinha & Priti; Sinha, Foundations computing BPB Publications 2006.
Rebecca Bridges Altman Peach pit Press, Power point for window, 1999
Sanjay Saxena, Vikas Publication House, Pvt. Ltd. Microsoft Office for ever one, Second Edition- 2006

Semester IV Theory Courses

MPCC-402 SPORTS PSYCHOLOGY

Course Outcomes (CO)

The Course outcomes of the paper are as :

- CO1. To know the role of sports Psychology sports performance
- CO2. To know about effects of various psychological factors sports performance
- CO3. To create the awareness regarding research in the field of sports psychology

CO4. To know about various motivational technique psychological problems for sports performance.

CO5. To Know about the psychological preparation of sports

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

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. Relaxation: Meaning and Definition, types and methods of psychological relaxation. 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 – Sports Sociology

Meaning and Definition – Sports and Socialization of Individual Sports as Social Institution. National Integration through Sports. Fans and Spectators: Meaning and definition, Advantages and disadvantages on Sports Performance. Leadership: Meaning, Definition, types. Leadership and Sports Performance.

UNIT V – Group Cohesion

Group: Definition and Meaning, Group Size, Groups on Composition, Group Cohesion, Group Interaction, Group Dynamics. Current Problems in Sports and Future Directions – Sports Social Crisis Management – Women in Sports: Sports Women in our Society, Participation pattern among Women, Gender inequalities in Sports.

UNIT-VI- Psychology of Counseling & Coaching.

Meaning of Counseling, Need of Counsel Individual Players & Teams, Different Approaches to Counseling Coaches Use of Groups to Improve Athletic Performance, Group Structure & Process.

Practicals: *Atleast five experiments related to the topics listed in the Units above shouldbe 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.
- Authors Guide (2013) National Library of Educational and Psychological Test (NLEPT) Catalogue of Test, 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 Jersey: 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.

**Semester IV
Theory Courses**

MPCC-403 DISSERTATION

Course Outcomes (CO)

The Course outcomes of the paper are as :

- CO1. To know about the process of research in physical education
- CO2. To know about review of related literature in research
- CO3. To create data analysis in research
- CO4. To know about statistical intervention in research.
- CO5. To increase the writing competency in research reporting

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.

**Semester IV
Theory Courses**

MPEC-401 VALUE AND ENVIRONMENTAL EDUCATION

Course Outcomes (CO)

The course outcomes of the paper are as :

CO1. To Know the Value and Environmental education in physical education

CO2. To know about role of Environmental education in class room teaching in physical education.

CO3. To create the awareness regarding research in the field of Environmental education.

CO4. To know about Rural Sanitation and Urban Health

CO5. To Know about the Natural Resources and related environmental issues

UNIT I – Introduction to Value Education.

Values: Meaning, Definition, Concepts of Values. Value Education: Need, Importance and Objectives. Moral Values: Need and Theories of Values. Classification of Values: Basic Values of Religion, Classification of Values.

UNIT II – Value Systems

Meaning and Definition, Personal and Communal Values, Consistency, Internally consistent, internally inconsistent, Judging Value System, Commitment, Commitment to values.

Unit- III – Environmental Education

Definition, Scope, Need and Importance of environmental studies., Concept of environmental education, Historical background of environmental education, Celebration of various days in relation with environment, Plastic recycling & prohibition of plastic bag / cover, Role of school in environmental conservation and sustainable development, Pollution free eco-system.

Unit - IV Rural Sanitation and Urban Health

Rural Health Problems, Causes of Rural Health Problems, Points to be kept in Mind for improvement of Rural Sanitation, Urban Health Problems, Process of Urban Health. Services of Urban Area, Suggested Education Activity, Services on Urban Slum Area, Sanitation at Fairs & Festivals, Mass Education.

Unit - V Natural Resources and related environmental issues:

Water resources, food resources and Land resources, Definition, effects and control measures of: Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Thermal Pollution Management of environment and Govt. policies, Role of pollution control board.

REFERENCE:

Miller T.G. Jr., Environmental Science (Wadsworth Publishing Co.) Odum, E.P.

Fundamentals of Ecology (U.S.A.: W.B. Saunders Co.) 1971.

Rao, M.N. & Datta, A.K. Waste Water Treatment (Oxford & IBH Publication Co. Pvt. Ltd.) 1987

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Heywood, V.H. and Watson V.M.. Global biodiversity Assessment (U.K.: Cambridge University Press), 1995.

Jadhav, H. and Bhosale, V.M. Environmental Protection and Laws (Delhi: Himalaya Pub. House), 1995.

Mc Kinney, M.L. and Schoel, R.M. Environmental Science System and Solution (Web enhanced Ed.) 1996.

Miller T.G. Jr., Environmental Science (Wadsworth Publishing Co.)

Semester IV
Theory Courses

MPEC-402 EDUCATION TECHNOLOGY IN PHYSICAL EDUCATION AND SPORTS

Course Outcomes (CO)

The course outcomes of the paper are as :

- CO1. To know the educational technology in physical education and sports
- CO2. To know about role of educational technology in class room teaching in physical education
- CO3. To create the awareness regarding research in the field of educational technology .
- CO4. To know about nature and scope of educational technology.
- CO5. To Know about the Instructional Design and Audio Visual Media in Physical Education

Unit I – Nature and Scope

Educational technology-concept, Nature and Scope. Forms of educational technology: teaching technology, instructional technology, and behaviour technology; Transactional usage of educational technology: integrated, complementary, supplementary stand-alone (independent); programmed learning stage; media application stage and computer application stage.

Unit II – Systems Approach to Physical Education and Communication

Systems Approach to Education and its Components: Goal Setting, Task Analysis, Content Analysis, Context Analysis and Evaluation Strategies; Instructional Strategies and Media for Instruction. Effectiveness of Communication in instructional system; Communication - Modes, Barriers and Process of Communication.

Unit III- Instructional Design

Instructional Design: Concept, Views. Process and stages of Development of Instructional Design. Overview of Models of Instructional Design; Instructional Design for Competency Based Teaching: Models for Development of Self Learning Material.

Unit IV – Audio Visual Media in Physical Education

Audio-visual media - meaning, importance and various forms Audio/Radio: Broadcast and audio recordings - strengths and Limitations, criteria for selection of instructional units, script writing, pre-production, post-production process and practices, Audio Conferencing and Interactive Radio Conference. Video/Educational Television: Telecast and Video recordings Strengths and limitations, Use of Television and CCTV in instruction and Training, Video Conferencing, SITE experiment, countrywide classroom project and Satellite based instructions. Use of animation films for the development of children's imagination.

Unit V – New Horizons of Educational Technology

Recent innovations in the area of ET interactive video - Hypertext, video-texts, optical fiber technology - laser disk, computer conferencing. etc. Procedure and organization of Teleconferencing/Interactive video-experiences of institutions, schools and universities.

Recent experiments in the third world countries and pointers for, India with reference to Physical education. Recent trends of Research in Educational Technology and its future with reference to education.

REFERENCE:

- Amita Bhardwaj, New Media of Educational Planning". Sarup of Sons, New Delhi-2003 Bhatia and Bhatia. The Principles and Methods of Teaching (New Delhi : Doaba House), 1959.
- Communication and Education, D. N. Dasgupta, Pointer Publishers
- Education and Communication for development, O. P. Dahama, O. P. Bhatnagar, Oxford Page 68 of 71 IBH Publishing company, New Delhi
- Essentials of Educational Technology, Madan Lal, Anmol Publications
- K. Sampath, A. Pannirselvam and S. Santhanam. Introduction to Educational Technology (New Delhi: Sterling Publishers Pvt. Ltd.) : 1981.
- Kochar, S.K. Methods and Techniques of Teaching (New Delhi, Jalandhar, Sterling Publishers Pvt. Ltd.), 1982
- Kozman, Cassidy and Jackson. Methods in Physical Education (W.B. Saunders Company, Philadelphia and London), 1952.

Semester I

Practicum

MPCC-104 ADVENTURE ACTIVITIES/ MASS DEMONSTRATION ACTIVITIES-LEZIM, DUMB-BELL, UMBRELLA, TIPRI, WANDS, HOOPS/ MALKHAMBH

ADVENTURE ACTIVITIES: Trekking, Wall climbing, River crossing, Mountaineering, etc

MASS DEMONSTRATION ACTIVITIES- lezim, dumb-bell, umbrella, tipri, wands, hoops, freearms drill, folk dances, etc. (*Students are expected to learn and organize mass drill in school situation*)

- Apparatus/ Light apparatus Grip
- Attention with apparatus/ Light apparatus
- Stand – at – ease with apparatus/ light apparatus
- Exercise with verbal command, drum, whistle and music – Two count, Four count, Eight count and

- Standing Exercise
- Jumping Exercise ○
Moving Exercise
- Combination of above all

MALKHAMB: Table of Exercises on Malkhamb should be prepared internally for teaching .

General out-line of the contents of teaching of theory of Games and Sports

Introduction of the game/sport and historical development with special reference to India, Orientation of the students to the play area and equipment used in the game/sport, Important tournaments held at National and International levels, Distinguished sports awards and personalities related to the Game/sport. Warming-up- General free hand exercises, specific work out using equipment. Fundamental skills, Lead up activities, General rules and their interpretations, Duties of officials, officiating in class competitions and Intramurals, Marking of the play area.

Semester II

Practicum Course

MPPC- 201 TRACK AND FIELD II: JUMPING EVENTS

/ SWIMMING / GYMNASTICS

{Course contents in Gymnastics and Swimming should be chalked out internally considering advance level of students and suitable to their age and gender}.

Semester II

Practicum Course

MPPC-202 GAMES SPECIALIZATION II

The Candidate has choice to select any one of the following games as the Specialization – II (Second best) in 2nd Semester.

(Kabaddi, Kho-kho, Badminton/ Table Tennis/ Tennis/ Squash/ Baseball/ Volleyball/ Basketball/ Cricket/ football/ Handball/ Hockey/ Netball/ Softball)

Semester II

Practicum Course

MPPC-203 TEACHING LESSONS OF INDIGENIOUS ACTIVITIES AND SPORTS

The students of M.P.Ed – II Semester need to develop proficiency in taking teaching classes in indigenous activities and sport under school situation. In view of this, the students shall be provided with 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 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 second 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 lessons, the duration should slowly increase and all the parts of the lesson covered progressively.

Semester II Practicum Course

MPPC-204 CLASS ROOM TEACHING

{LESSONS ON THEORY OF DIFFERENT SPORTS & GAMES}

The students of M.P.Ed – II Semester need to develop proficiency in taking teaching lessons as per selected games and sport or game specialization. In view of this, the students shall be provided with selected or specialized game 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 second 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 teaching lessons, the duration should slowly increase and all the parts of the lesson covered progressively.

**Semester III
Practicum Course**

**MPPC- 301 TRACK AND FIELD III: THROWING EVENTS/
GYMNASTICS/SWIMMING**

(Course contents in Gymnastics and Swimming should be chalked out internally considering advance level of students and suitable to their age and gender).

**Semester III
Practicum Course**

**MPPC-302 GAMES SPECIALIZATION- III BOXING/ FENCING/ JUDO/ KARATE/ WRESTLING/
WUSHU**

(Course contents in the game of specialization should be chalked out internally considering advance level of students and suitable to their age and gender).

**Semester III
Practicum Course**

MPPC-303 COACHING LESSONS OF TRACK AND FIELD/ GYMNASTICS/ SWIMMING

The students of M.P.Ed – III Semester need to develop proficiency in taking coaching lesson on above mentioned selected discipline. In view of this, the students shall be provided with advance training and coaching in selected discipline. 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, 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 third 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, the duration should slowly increase and all the parts of the lesson covered progressively.

Semester III
Practicum Course

MPPC-304 COACHING LESSONS OF GAME SPECIALIZATIONS

The students of M.P.Ed – III Semester need to be develop proficiency in taking coaching lesson in selected game discipline. In view of this, the students shall be provided with advance training and coaching in selected discipline. 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 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 third 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, the duration should slowly increase and all the parts of the lesson covered progressively.

Semester IV
Practicum Course

MPPC- 401 TRACK AND FIELD/ SWIMMING/ GYMNASTICS

(Course contents in Gymnastics and Swimming should be chalked out internally considering advance level of students and suitable to their age and gender. Practical Skill Test any one out of these after completion of syllabus)

Semester IV
Practicum Course

MPPC-402 GAMES SPECIALIZATION

(Course contents in game or sport of specialization should be chalked out internally considering advance level of students and suitable to their age and gender .Practical skill test- any two)

Semester IV
Practicum Course

MPPC-403 OFFICIATING LESSONS OF TRACK AND FIELD/ GYMNASTICS/ SWIMMING

The students of M.P.Ed – IV Semester need to develop proficiency in taking officiating lesson on selected above discipline. In view of this, the students shall be provided with advance mechanism of officiating in selected discipline. 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 officiating lessons, the duration should slowly increase and all the parts of the lesson covered progressively.

**Semester IV
Practicum Course**

MPPC-404 OFFICIATING LESSONS OF GAME SPECIALIZATIONS

The students of M.P.Ed – IV Semester need to be develop proficiency in taking officiating lesson on selected game specialization. In view of this, the students shall be provided with advance mechanism of officiating 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 officiating lessons, the duration should slowly increase and all the parts of the lesson covered progressively.

Note: Where ever details of any activities are not mentioned, it is expected to elaborate skills by the competent bodies of local Universities/ Autonomous Colleges.

Table – 1: Semester wise distribution of hours per week

<i>Semester</i>	<i>Theory</i>	<i>Practicum</i>	<i>Teaching practice</i>	<i>Total</i>
<i>I</i>	12	18	6	36
<i>II</i>	12	12	12	36
<i>III</i>	12	12	12	36
<i>IV</i>	12	12	12	36
Total	48	54	42	144
<i>Minimum of 36 teaching hours per week is required in five or six days in a week</i>				

Table – 2: Number of credits per semester

<i>Semester</i>	<i>Theory</i>	<i>Practicum</i>	<i>Teaching practice</i>	<i>Total</i>
<i>I</i>	12	09	03	24
<i>II</i>	12	06	06	24

<i>III</i>	<i>12</i>	<i>06</i>	<i>06</i>	<i>24</i>
<i>IV</i>	<i>12</i>	<i>06</i>	<i>06</i>	<i>24</i>
<i>Total</i>	<i>48</i>	<i>27</i>	<i>21</i>	<i>96</i>
<i>Minimum of 36 teaching hours per week is required in five or six days in a week</i>				

