YMCA COLLEGE OF PHYSICAL EDUCATION

(An Autonomous College Affiliated to Tamil Nadu Physical Education & Sports University)
NANDANAM, CHENNAI - 600035.

A Project of the National Council of YMCAs of India

Reaccredited by NAAC as "A" Grade College

Recognized by the National Council for Teacher Education & Government of Tamil Nadu

SYLLABUS





MASTER OF PHYSICAL EDUCATION (M.P.Ed.)
(TWO YEARS)

2021 - 2023

YMCA COLLEGE OF PHYSICAL EDUCATION

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MASTER OF PHYSICAL EDUCATION (M.P.Ed.)

(TWO YEARS)

CREDIT SYSTEM

Preamble:

The Master of Physical Education (M.P.Ed.) two years (Four Semesters, Credit System) programme is a professional programme meant for preparing Physical Education Teachers for senior secondary (Class XI and XII) level as well as Assistant Professor/Directors/ Sports Officers in Colleges/Universities and teacher educators in College of Physical Education.

The M.P.Ed. Programme is designed to integrate the study of childhood, social context of Physical Education, subject knowledge, pedagogical knowledge, aim of Physical Education and communication skills. The programme comprise of compulsory and optional theory as well as practical courses and compulsory school internship in School/College/Sports Organizations/Sports Academy/Sports Club.

1. Intake, Eligibility and Admission Procedure:

The Intake, Eligibility and Admission Procedure is as per the NCTE and TNPESU norms and standards.

2. Duration:

The M.P.Ed programme is of a duration of two academic years, that is, four semesters. However, the students shall be permitted to complete the programme requirements within a maximum of three years from the date of admission to the programme.

3. The CS System:

All programmes shall run on Credit System (CS). It is an instructional package developed to suit the needs of students, to keep pace with the developments in higher education and the quality assurance expected of it in the light of liberalization and globalization in higher education.

4. Course:

The term course usually referred to, as 'papers' is a component of a programme. All Courses Work/ Field Work/ Outreach Activities/ Project Work/ Vocational Training/VIVA/ Seminars/Terrn Papers/Assignments/ Presentations/ Self-Study etc. or a combination of some of these.need not carry the same weight. The courses should define learning objectives andleaming outcomes. A course may be designed to comprise Lectures/ Tutorials/Laboratory

5. Credits:

The term 'Credit' refers to a unit by which the programme is measured. It determines the number of hours of instructions required per week. One credit is equivalent to one hour of teaching (lecture or tutorial) or one and half / two hours of practical work/field work per week. The term 'Credit' refers to the weight given to a course, usually in relation to the instructional hours assigned to it.

6. Evaluation:

6.1 Written Examination

(20 Marks)

Each student will be graded by the subject teacher(s). Three sessional tests will be conducted for each paper. Each test carries a maximum of 20 marks and the average of best two tests will be considered. However, in the case of students who miss the tests for any valid reason with prior permission from the subject teacher(s) and the Principal, they may be granted special permission to write the sessional test before the commencement of semester examinations.

6.2 Assignment and Attendance.

(5 Marks each)

The students will be given 5 marks for assignments and attendance. The assignment may be in the form of Seminars, Projects, Written Materials, Records, etc., A student should submit a minimum of two assignments for each course and they should attend all the classes regularly. The average of assignment and attendance marks will be taken. $(10/2 = 5 \,\text{Marks})'$

6.3 Pre Semester. (75 Marks)

The Pre Semester examinations will be held at the end of each semester before the final semester examinations, covering all portions and 75 marks are awarded for this examination. Each paper will be evaluated for 75 marks and this will be converted into 25 marks. All the examination will be conducted by the Controller of Examinations. The date and test portions will be intimated in advance by staff concerned. There is no Minimum marks of passing in both internal and external examinations. Internal and External of 50% is (50/100) the required marks of passing. A student who fails in anyone or more papers in the semester examination, will be permitted to rewrite the paper or papers in the subsequent semester examinations.

First sessional test = 20 Marks Second sessional test = 20 Marks Third sessional test = 20 Marks

Average of the best two tests = 20 Marks
Assignment & Attendance = 5 Marks
Pre Semester converted to 25 = 25 Marks

Total = 50/2
Internal = 20 Marks

6.4 Theory:

- i. The Answer scripts are evaluated by both internal and external examiners (Double Valuation).
- ii. If there is 10% difference between two examiners, a third revaluation is conducted, which will be final.
- iii. Question papers for each examination will follow the regulation and syllabus in force at that time. The question paper pattern include both 1 mark, 5 marks and 10 marks.
- a. Part A 5 Questions X 1 Mark = 5 Marks (Where all the 5 questions should be answered in Part A)
- b. Part B 4 Questions X 5 Marks = 20 Marks (Where 4 questions out of 6 questions should be answered in Part B)
- c. Part C 5 Questions X 10 Marks = 50 Marks (Where 5 questions out of 7 questions should be answered in Part C)

Total = 75 Marks

- iv. A student getting 'RA' Re Appear in a subject must repeat the examination to obtain the degree. Such students are exempted from attendance.
- v. A student shall not be permitted to repeat any course only for the purpose of improving the grade.

6.5 Practical

Minimum for passing student must get 50% marks both in internal and external examinations. And, also the minimum for passing in each paper is 50% combining internal and external marks. A student, who fails in any one or more practical in the semester examination, will be permitted to redo the practical (s) in the subsequent semester examinations.

Part - II Practical:

Practical will be evaluated internally.

Part III Teaching/Coaching Lessons on specialization and Internship Training:

I Semester:

Teaching Practice and Classroom teaching will be evaluated Internally.

Specialization 2nd best and 1 st best will be evaluated Internally.

II Semester:

Teaching practice and Class room teaching will be evaluated Externally.

Specialization 1st best and 2nd best will be evaluated Externally.

III Semester:

Coaching lesson and Officiating in Track & Field and Specialization (I" best) will be evaluated lntemally.

Internship training in Coaching lesson.

IV Semester:

Coaching lesson" and officiating" in Track & field and Specialization (I"best) will be evaluated Externally.

6.6 Arrear Examinations:

Examination fees will be levied and collected normally according to the rules and regulations of the college. A special levy will be collected for supplementary paper.

6.7 Passing of Results:

Result will be approved by the board of Examiners and will be submitted to the Academic Council of the college to recommend the eligible students for the award of the degree by Tamil Nadu Physical Education and Sports University.

7. Registration

- 7.1 Every student must register for the courses he / she intends to undergo in a semester. A registration form in triplicate can be obtained from the credit system office. A student should submit the duly filled in and signed registration form in triplicate with the subject teacher's and Principal's signature in the credit system offo ice at the time of registration.
- 7.2 After admission to the programme, a code number will be assigned for each student, giving the year of admission and the student registration number.

- 7.3 The subject teacher shall advise the student about the academic programme and counsel him/her on the choice of courses (elective only) to be registered.
- 7.4 The college shall prescribe the maximum number of students in each course taking into account the physical facilities available.'
- 7.5 A course shall normally be taught by one staff.

8. Attendance:

- 8.1 A student must have 90% of attendance in theory and practical classes to write the semester examinations. A student with less than 90% of attendance will be given the grade 'RA'. (Re-Appear due to lack of attendance)
- 8.2 A student having below 90% and above 65% attendance will not be allowed to write the exam in the semester. A student having below 65% attendance should repeat the course.
- 8.3 The student's attendance progress report would be displayed on the notice board every month.
- 8.4 Condonation is acceptable only once for a student during his/her course of study.

9. Grading:

Once the marks of the CIA (Continuous Internal Assessment) and SEA (Semester End Assessment) for each of the courses are available, both (CIA and SEA) will be added. The marks thus obtained for each of the courses will then be graded as per details provided in sub heading letter grades and grade point from the first semester onwards the average performance within any semester from the first semester is indicated by Semester Grade Point Average (SGPA) while continuous performance (including the performance of the previous semesters also) starting from the first semester is indicated by Cumulative Grade Point Average (CGPA). These two are calculated by the following formula:

Where Ciis the Credit earned for the course is in any semester; Giis the Grade point obtained by the student for the course and n number of courses obtained in that semester; uniis SGPA of semester j and N number of semester. Thus CGPA is average of SGPA of all the semesters starting from the first semester to the current semester.

10. Classification of Final Results:

For the purpose of declaring a candidate to have qualified for the Degree of Master of Physical Education in the First class / Second Class / Pass Class or First Class with Distinction, the marks and the corresponding CGPA earned by the candidate in Core Courses will be the criterion. It is further provided that the candidate should have scored the First / Second Class separately in both the grand total and end Semester (External) examinations.

11. Letter Grades and Grade Points:

i. Two methods-relative grading or absolute grading have been in Vogue for awarding grades in a course. The relative grading is based on the distribution (usually normal distribution) of marks obtained by all the students in the course and the grades are awarded based on a cut-off mark or percentile. Under the absolute grading, the marks are converted to grades based on predetermined class intervals.

ii. The grades for each course would be decided on the basis of the percentage marks obtained at the end semester external and internal examinations as per following table:

Percentage	Grade Point	Letter Grade	Description
90 - 100	9.0 - 10.0	О	Outstanding
80 - 89.99	8.0 - 8.99	D+	Excellent
75 - 79.99	7.5 - 7.99	D	Distinction
70 - 74.99	7.0 - 7.49	A+	Very Good
60 - 69.99	6.0 - 6.99	A	Good
50 - 59.99	5.0 - 5.99	В	Average
00 - 49.99	0.0	RA	Re-Appear
Absent			

	CORE CO	URSE	ELEC	ΓIVE COURSE	P	PRACTICAL
SEM I	1	h Process in l Educational rts Science	MEC 104 MEC 105 MEC 106	Adapted Physical Education Sports Management Sports Technology	MPC 107 MPC 108 MPC 109 MPC 110 MTP 111	Physiology Lab Coaching Lesson Specialisation 2nd Best
SEM II	MCC 203 Test, Me	Statistics in Education asurement and on in Physical	MEC 205 1	Value Education Environmental Science Sports Nutrition and Health Promotion	MPC 209	Track & Field (Sprint, Relay, Hurdle) and Gymnastics Indigenous Activities and Sports Psychology Lab Coaching Lesson & Officiating Specialisation 2nd Best (External) Coaching Lesson & Officiating Specialisation 1st Best (External) Teaching Practice and Classroom Teaching (External)
SEM III	MCC 302 Curricu Physica	Training lum Design in l Education Biomechanics blied	MEC 305 S	CT in Physical Education Sports Sociology Sports Engineering	MPC 308	Track and Field (Jumps) and Swimming Martial Arts and Biomechanics and Kinesiology Lab Coaching Lesson and Officiating in T & F Coaching Lesson and Officiating Specialisation 1st Best Internship in Coaching Lesson
SEM IV	Sports MCC 402 Rules of Games MCC 403 Profess Prepara	ement of Trauma of Sports and sional ation for SET / TRB /			MPC 406 MPC 407 MPC 408	Track & Field (Middle and Long Distance) and Training Methods Mass Drill and Sports Injury and Rehabilitation Lab Coaching Lesson and Officiating in T & F (External) Coaching Lesson & Officiating Specialisation 1st Best (External)

SEMESTER	MORNING PRACTICALS	EVENING PRACTICAL
I SEMESTER	 Track and Field (Throws) Yoga Aerobics Teaching Practice Exercise Physiology Lab 	 Specialization 2nd Best (Basketball, Football, Handball, Hockey, Track and Field, Volleyball) Specialization 1st Best (Basketball, Cricket, Football, Handball, Hockey, Track and Field, Volleyball)
II SEMESTER	 Track and Field (Sprint, Relay, Hurdle) Gymnastics Indigenous Activities Teaching Practice Exercise Physiology Lab 	 Specialization 2nd Best (Basketball, Cricket, Football, Handball, Hockey, Track and Field, Volleyball) Specialization 1st Best (Basketball, Cricket, Football, Handball, Hockey, Track and Field, Volleyball)
III SEMESTER	 Track and Field (Sprint, Relay, Hurdle) Swimming Martial Arts Coaching Lesson and Officiating Biomechanics and Kinesiology Lab 	Specialization 1st Best (Basketball, Cricket, Football, Handball, Hockey, Track and Field, Volleyball)
IV SEMESTER	 Track and Field (Middle and Long Distance) Mass Drill Training Methods Coaching Lesson and Officiating Sports Injury and Rehabilitation lab 	Specialization 1st Best (Basketball, Cricket, Football, Handball, Hockey, Track and Field, Volleyball)

SEMESTER I

Course	Title of the Paper	L	Т	P	Total Credits	Internal	External	Total
MCC 101	Yogic Sciences	4	0	0	3	25	75	100
MCC 102	Reserach Process in Physical Educational and Sports Science	4	0	0	4	25	75	100
MCC 103	Physiology of Exercise	4	0	0	3	25	75	100
MEC 104	Adapted Physical Education	1	0	0	3			
MEC 105	Sports Management							
MEC 106	Sports Technology					25	75	100
MEC 107	Track and Field (Throws) and Yoga	0	2	2	3		ctivity 50 rks)	100
MPC 108	Aerobics and Exercise Physiology Lab	0	2	2	3		ctivity 50 rks)	100
MPC 109	Specialisation 2nd Best	0	2	2	3		-	100
MPC 110	Coaching Lesson Specialisation 1st Best	0	2	2	3		-	100
MTP 111	Teaching Practice and Classroom Teaching		1	1	2		-	100

I Semester Total Credit = 27

SEMESTER II

Course	Title of the Paper	L	Т	P	Total Credits	Internal	External	Total
MCC 201	Sports Psychology	4	0	0	3	25	75	100
MCC 202	Applied Statistics in Physical Education	4	0	0	3	25	75	100
MCC 203	Test, Measurement and Evaluation in Physical Education	4	0	0	4	25	75	100
MEC 204	Value Education							
MEC 205	Environmental Studies	1	0	0	3	25	75	100
MEC 206	Sports Nutrition and Health Promotion	1			3	23		100
MPC 207	Track & Field (Sprint, Relay, Hurdle) and Gymnastics	0	2	4	3		ctivity 50 rks)	100
MPC 208	Indigenous Activities and Sports Psychology Lab	0	2	4	3		ctivity 50 rks)	100
MPC 209	Coaching Lesson & Officiating Specialisation 2nd Best (External)	0	2	2	3	Ave	rage	100
MPC 210	Coaching Lesson & Officiating Specialisation 1st Best (External)	0	2	2	3	Ave	rage	100
MPC 211	Teaching Practice and Classroom Teaching (External)		1	1	2	Ave	rage	100

II Semestar Total Credit = 27

SEMESTER III

Course	Title of the Paper	L	Т	P	Total Credits	Internal	External	Total
MCC 301	Scientific Principles of Sports Training	4	0	0	4	25	75	100
MCC 302	Curriculum Design in Physical Education	4	0	0	3	25	75	100
MCC 303	Sports Biomechanics and Applied Kinesiology	4	0	0	3	25	75	100
MEC 304	ICT in Physical Education	1	0	0	3			
MEC 305	Sports Sociology					25	75	100
MEC 306	Sports Engineering							
MEC 307	Track and Field (Jumps) and Swimming	0	2	2	3	(Each Activity 50 Marks)		100
MPC 308	Martial Arts and Biomechanics and Kinesiology Lab	0	2	2	3	\	ctivity 50 rks)	100
MPC 309	Coaching Lesson and Officiating in T & F	0	2	2	3		-	100
MPC 310	Coaching Lesson and Officiating Specialisation 1st Best	0	4	4	6		-	100
MTP 311	Internship in Coaching Lesson		1	1	3	,	_	100

I Semester Total Credit = 31

SEMESTER IV

Course	Title of the Paper	L	Т	P	Total Credits	Internal	External	Total
MCC 401	Prevention and Management of Sports Trauma	4	0	0	4	25	75	100
MCC 402	Rules of Sports and Games	4	0	0	4	25	75	100
MCC 403	Professional Preparation for NET / SET / TRB / TNPSC	4	0	0	4	25	75	100
MCC 404	Dissertation	4	0	0	3	25	75	100
MPC 405	Track & Field (Middle and Long Distance) and Training Methods	0	2	4	4		ctivity 50 rks)	100
MPC 406	Mass Drill and Sports Injury and Rehabilitation Lab	0	2	4	3		ctivity 50 rks)	100
MPC 407	Coaching Lesson and Officiating in T & F (External)	0	2	2	3	Ave	rage	100
MPC 408	Coaching Lesson & Officiating Specialisation 1st Best (External)	0	4	4	6	Ave	rage	100

II Semestar Total Credit = 31

TOTAL CREDITS IN MPEd TWO YEARS COURSE

Semester	Credits in Theory	Cre	Total	
	Part I	Part II	Part III	
		(Games and Other Activity)	(Teaching/Coaching) Internship)	
I	13	6	8	27
II	13	6	8	27
III	13	6	12	31
IV	16	6	9	31
TOTAL	55	24	37	116

Total Credits in all the semester = 27+27+31+31 Total credits = 116 credits

TOTAL MARKS IN MPEd TWO YEARS COURSE

Semester	Marks in Theory	Mai	rks in Practical	Total
	Part I	Part II	Part III	
		(Games and Other Activity)	(Teaching/Coaching) Internship)	
I	400	200	300	900
II	400	200	300	900
III	400	200	300	900
IV	400	200	200	800
TOTAL	1600	800	1100	3500

PROVISION OF BONUS / ADDITIONAL CREDITS MAXIMUM 06 CREDITS IN EACH SEMESTER

Sr. No.	Special Credits for Extra Co-Curricular Activities	Credit
1	Sports Achievement at Stale level Competition (Medal Winner)	1
	Sports Achievement National level Competition (Medal Winner)	2
	Sports participation International level Competition	4
2	Inter Uni. Participation (Any one game)	2
3	nter College Participation (min. two game)	1
4	National Cadet Corps /National Service Scheme	2
5	Blood donation / Cleanliness drive / Community services	2
6	Mountaineering Basic Camp, Advance Camp / Adventure Activities	2
7	Organization/ Officiating State / National level in any two game	2
8	News Reposting / Article Writing / book writing / progress report writing	1
9	Research Project	4
10	Intramural per semester	1
11	Optional Course	1
12	Add on Course	1

SEMESTER I

MCC 101 Yogic Sciences Credit: 3

Objectives: After studying this paper the student teachers will be able:

- > To understand the basic concept of yoga and apply the underlying concepts of yogasana as exercise
- > To cultivate breath control, relaxation techniques and kinesthetic awareness
- To apply the principles of yogasana to live healthy and active life style
- > To learn to apply the yogasana in sports performance
- > To analyse the psychological changes on sports persons during sports participation
- > Develop the knowledge through practice, participate and organize

Unit I-Introduction

Meaning and Definition of Yoga. Astanga Yoga: Yama, Niyama, Aasna, types of asana - 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 sui'yanamaskar Chakras - nadis

Unit II -Kriyas

Shat Kriyas- Meaning, Techniques and Benefits of Neti Dhati Kap alapathi- Trataka Nauli Basti, Bandhas: Meaning, Techniques and Benefits of JalendraBandha, Jihva, Bandha, UddiyanaBandha, MulaBandha.

Unit III - Mudras

Meaning, Techniques and Benefits of Hasta Mudras, Asamyuktahastam, Samyuktahastam, Mana Mudra, Kaya Mudra, Banda Mudra, Adhara Mudra. Meditation: Meaning, Techiques and Benefits of Meditation Passive and active, Saguna Meditation and Nirguna Meditation.

Unit IV - Yoga and Sports

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

Unit V - Yoga for Skill Development

Yoga for skill development yoga for performance enhancement of sports person yoga for management of selected sports injuries yoga for leadership ~ yoga for fitness and hygiene.

REFERENCE:

- ☐ George Feuerstein, (1975). Text Book of Y0 ga. London: MotilalBansaridass Publishers (P) Ltd.
- Gore, (1990), Anatomy and Physiology of Y0 gac Practices. Lonavata: Kanchan Prkashan.
- Helen Puiperhart (2004), The Yoga Adventure for Children. Netherlands: A Hunter House book.
- I Iyengar, B.K.S. (2000), Light on Yoga. New Delhi: Harper Collins Publishers.

- ☐ Karbelkar N.V.(1993) PatanjalYogasutraBhashya (Marathi Edition) Amravati: Hanuman VyayamPrasarakMandal
- ☐ Kenghe.C.T. (1976). Yoga as Depth-Psychology and para-Psychology (Vol~I): Historical Background, Varanasi: BharataManishai.
- U Kuvalyananada Swami and S.L. Vinekar, (1963), Yogic Therapy B asic Principles and
- Methods. New Delhi: Govt. of India, Central Health Education and Bureau.
- Moorthy A.M. and Alagesan. S. (2004) Yoga Therapy. Coimbatore: Teachers Publication House.
- Swami Kuvalayanda, (1998), Asanas. Lonavala: Kaivalyadhama.
- Swami SatyananadaSarasvati. (1989), Asana Pranayama Mudra Bandha.Munger: Bihar School of Yoga.
- Swami SatyanandaSaraswathi. (1 984), Kundalini and Tantra, Bihar: Yoga Publications Trust.
- Swami Sivananda, (1971), The Science of Pranayama. Chennai: ADivine Life Society Publication.
- Tiwari O.P. (1998), Asanas-Why and How.Lonavala: Kaivalyadham.

MCC102 Research Process in Physical Education and Sports Sciences Credit: 4

Objectives: After studying this paper the student teachers will be able:

- To gain knowledge about research in the field of physical education and sports
- To understand the method of collecting related reviews
- To understand the concept of sampling technique and population
- > To gain the knowledge about various research studies
- To develop knowledge to find systematic and scientific solutions for the problems
- > To identify contemporary issues of research in the field of physical education and sports
- To learn to structure the thesis in chapter wise format
- To learn to prepare abstract and paper publication in journal and seminar

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 Research problem, Qualities of a good researcher Modern trends in research in physical education

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.

UNITIV-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 (1 97 1) Research in Education, New Jersey; Prentice Hall, Inc Clarke David. H and 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, LondonlRoutledge Press
- ☐ Jerry R Thomas and Jack K Nelson (2000) Research Methods in Physical Activities; Illonosis; Human Kinetics;
- ☐ Kamlesh, M. L. (1999) Research Methodology in Physical Education and Sports, New Delhi
- Moses, A. K. (1995) Thesis Writing Format, Chennai; Poompugar Pathippagam.
- Roths-tain, A (1985) Research Design and Statistics for Physical Education, Englewood Cliffs: Prentice Hall, Inc

Subramanian, R, Thirumalai Kumar S and 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

MCC 103

Physiology of Exercise

Credit: 3

Objectives: After studying this paper the student teachers will be able:

- > To understand basic knowledge of skeletal muscle and muscle contraction
- To gain the knowledge of bioenergetics
- To identify different types of muscle fibers
- To learn about the effect of exercise on various systems of the body
- To learn to train athletes at high altitude
- To understand the significant changes on physiology due to climatic conditions
- To gain the knowledge about ergogenic aids in various sports

UNIT I - Skeletal Muscles and Exercise

Macro and Micro Structure of the Skeletal Muscle, Chemical Composition. Sliding Filamenttheory 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: Caffeine, Ephedrine, Stimulants and sports performance.

REFERENCES:

- Arnrit Kumar, R, Moses. (1995). Introduction to Exercise Physiology. Madras Poompugar Pathipagam.
- BeotraAlka, (2000) Drug Education Handbook on Drug Abuse in Sports: Sports Authority of India De1hi.
- 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. (1 9 89). Sports Physiology. WMC: Brown Publishers. SandhyaTiwaji. (1999). Exercise Physiology. Sports Publishers.
- ☐ Shaver, L (1 98 1). Essentials of the Exercise Physiology. New Delhi: Subject Publications.
- □ Vincent, T.Murche. (2007). Elementary Physiology. Hyderabad: Sports Publication.

Credit: 3

- William, D. Mc. Aradle. (1996). Exercise Physiology, Energy, Nutrition and Human
- Performance, Philadelphia: Lippincott Williams and Wilkins Company.

MEC 104 Adapted Physical Education

Objectives: After studying this paper the student teachers will be able:

- > To understand basic knowledge of special education and inclusive education
- To gain the knowledge on goals of adapted Education
- > To understand the development of child causes and classification of disability
- > To learn about the techniques and aids for mobility science
- > To learn to adopted major games for visually challenged
- > To understand the and teachthe adapted games for hearing impaired
- To gain the knowledge about intellectual impairment, special Olympics and paraolympics

Unit 1: Education systems

Special Education Inclusive education Meaning, Definitions, Aims and Objectives Strategies for including Students Step for modifying and adaptation of the physical Education curriculum

Methods of playing inclusive games

Unit II: Introduction to Adapted Physical Education

Meaning of the term adapted Background information purpose and goals of adapted physical

education Movement Educational Concepts.

Unit III: Child Development, Causes and Classification of Disability

Prenatal development of the child and post-natal motor development of the child Pre-natal, Natal and Postnatal causes of visually challenged, physically challenged, intellectual disability, Autism, Down syndrome, and Cerebral Palsy. Disability / differently abled classification and sub classification' in each disability.

Unit IV: Techniques and Aids for Mobility Science

Introduction to mobility skills, Common terms used in O &M, Sighted Guide Technique, Long Cane Skills, Mobility Equipment of Orthopedic Impairment.

Unit V: MajorAdapted Games

Adapted Major Games for Visually Challenged, Hearing impaired, Intellectual Impainnent, Special Olympic and Paraolympic.

REFERENCE:

Clauding and Sherill, Adapted physical education and recreation C. Publishers, IOWA.

Paul. A. Metzge, Elementary, School physical education C. Brown company publishers.

Barrow, Harold M., M., Gee, Rosemary, A. Practical Approach to Measurement in Physical Education Philadelphia, Lea and F ebiger, 1964. Meyers, Carlton R. and Erwin, T. Measurement in Physical Education, London G. Bell and Sons Ltd, 1967.

Campell, W.R., and Tucker, N.M. An introduction in Physical Education, London G. Bell and S' one Ltd. 1987.

Prof.S. Jaimitra, Physical Education for the Blind Grace Printer, Chennai - 1990

MEC 105

Sports Management

Credit: 3

Objectives: After studying this paper the student teachers will be able:

- > To identify the basic principles of sports management, leadership
- > To know about structure of organization
- > To learn to maintain records and registers in the field of physical education and sports
- > To identify future trends in the field of sports management
- > To know to prepare sports budget and utilization of resources like goods and human
- To assess sports marketing needs in organization and production sector
- To learn to organize sports event at state, national and corporate level
- > To understand and gain the knowledge of event management in sports and games

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 - Program 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, Budgeting.

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 - Leadership and Supervision

Behavioural process of leading-LeadershipTrait Approach Behavioural approach-Situation factors or sports marketing- Strategies Marketing Plan Supervision in Physical Education Meaning of supervision-Need of supervision-Guided principle of supervision-qualification of a supervision

UNIT V - Functions of Supervision

Functions of supervision-Human relationship-techniques of supervision-visitation. conference Workshop-bulletin=surveys+Meeting Demonstration-Evalu'ati'on-Services of Supervision

REFERENCES:

- Bonnie, L. (1991). The Management of Sports. St. Louis: Mosby Publishing Company, ParkHouse. I
- Bucher A. Charles, (1993) Management of Physical Education and Sports (10th ed.,) St. Louis: Mobsy Publishing Company.
- ☐ Charles, A, Bucher and 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.
- Williams, J.F. (2003). Principles of Physical Education. Meerut: College Book House.
- Yadvnider Singh. Sports Management, New Delhi: Lakshay Publication.

MEC 106

Sports Technology

Credit: 3

Objectives: After studying this paper the student teachers will be able:

- > To understand basic knowledge of technological impact on sports
- To gain the knowledge about the science of sports materials
- To learn about the modern surfaces of playfields
- To gain knowledge on construction and installation of sports surfaces
- To learn about the sports equipments with nano 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 11 - Science of Sports Materials

Adhesives- Nano glue, nanomoulding technology, Nano turf.Foot wear production, Factors and application in sports, constraints. F oams- Polyurethane, Polystyrene, Styrofoam,

closedcell and open-cell foams, Neoprene, Foam. Smart Materials Shape Memory Alloy (SMA), Therrno chromic film, Hi gh-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 "NeWYork: 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

MCC 201 Sports Psychology Credit: 3

Objectives: After studying this paper the student teachers will be able:

- > To know and to understand the sportsman behavior
- To gain the knowledge to train the athletes based on sports psychology concepts
- > To know the concept of various positive and negative effects of psychological variables on sports person
- > To learn psychological skill training
- > To know the various psychological factors affecting sport performance
- > To know the relationship of the sports person with various sports settings concepts
- > To understand group mechanisms and group psychology in a sports context
- > To gain knowledge on motivational 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 and Emotions

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. Emotional intelligence Mental toughness ~ Psychological Skill Training (PST) Psycho Regulatory Training (PRT) for performance enhancement and relaxation.

UNITIV - 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 Wonlen in Sports: Sports Women in our Society, Participation pattern among Women, Gender inequalities in Sports.

UNIT V-Socialization and Leadership

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

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 SahetyKendre Publishers. Jay Coakley. (2001) Sports in Society Issues and Controversies in International Education, Mc-Craw Seventh Ed.
- John D Lauther (2000) Psychology of Coaching. NerJ ersy: Prentice Hall Inc.
- John D. Lauther (1998) Sports Psychology. Englewood, Prentice Hall Inc.
- ☐ Miroslaw Vauksand Bryant Cratty (1999). Psychology and the Superior Athlete. London: The Macmillan Co.'

- Richard, J. Crisp. (2000). Essential Social Psychology. Sage Publications.
- RobertN. Singer (2001). Motor Learning andHumanPerformance. NewYork: The Macmillan Co.
- Robert N. Singer. (1989) The Psychology Domain Movement Behaviour. Philadelphia: Lea and F ebi ger.
- Thehna Horn. (2002). Advances in Sports Psychology. Human Kinetic.
- Whiting, K, Karman., Hendry L.B and Jones M.G. (1999) Personality and Performance in Physical Education and Sports. London: Hendry Kimpton Publishers.

Credit: 3

MCC 202 Applied Statistics in Physical Education

Objectives: After studying this paper the student teachers will be able:

- > To gain knowledge about statistics
- To test the existing theories in sports and games
- > To develop systematic and scientific solution to the given problem
- To gain the knowledge to group and interpret the data

UNIT I - Introduction

Meaning and Definitionof 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 tendencyMean, median and mode.

UNIT HI - 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, 0 give 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 coefficient 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 and 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 ublications.

MCC 203 Test, Measurement and Evaluation in Physical Education Credit: 4

Objectives: After studying this paper the student teachers will be able:

- To learn to organize and administer a variety of tests
- To learn to analyse and evaluate various fitness components of sports person
- > To know about the different types of test for different sports and games.
- To learn to prepare norms for the newly constructed test
- To learn to analyse the fitness and skill performance of an athlete
- To learn to keep record of pupils fitness test and norms

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) J CR 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 (Beeptest)*

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.

REFERENCES:

- Authors Guide (2013) ACSM's Health Related Physical Fitness Assessment Manual, USA: ACSM Publications
- ☐ Collins, R.D., and 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
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- ☐ 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
- Uvivian H. Heyward (2005) Advance Fitness Assessment and Exercise Prescription, 3rd Edition, Dallas TX: The Cooper Institute for Aerobics Research
- Wilmore J H and Costill DL. (2005) Physiology of Sport and Exercise: 3rd Edition. Champai gm IL: Human Kinetics
- Yobu, A (2010), Test, Measurement and Evaluation in Physical Education in Physical Education and Sports. New Delhi; Friends Publications

MEC 204 Value Education Credit: 3

Objectives: After studying this paper the student teachers will be able:

- > To understand the importance of values, role of values, concepts, and functions
- To gain knowledge about value education and ambition
- > To understand the values of religion and human being
- To learn to teach moral classes at school based on values
- > To identify psychological parameters and

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 Importance of value education

Psychological parameters of value education, social aims of values, aesthetic awareness paradigm of values, source of value fundamental duties.

UNIT IV Classification of values.

Basic values of religion classification of values-Education committees on value education-Realms of values citizen and fundamental duties

UNIT V Value education in global perspective

National integration and value education population education and values-four pillars of education Indian and Western - guidance programme in value education teaching strategies-moral instruction schools, tools, techniques for measurement- value education in present scenario.

REFERENCES:

Venkataiah N. Value Education, API-I Publishing corporation, New Delhi

Dhananjay Joshi, Value Education in Global Perspective, Lotus Press, New Delhi MohitChaklabarti, Value Education, Changing Perspective, Kanishka Pub, Delhi.

MEC 205 Environmental Science Credit: 3

Objectives: After studying this paper the student teachers will be able:

- To promote the knowledge of environmental education.
- To create health awareness among youth, various health problems and its impacts
- > To understand the importance of environment and to create good environment
- > To learn to give healthy environment to the future generation
- To learn to use resources without depleting the resources
- To understand the health problem of India and its solution
- To gain knowledge to achieve the goal of sustainable development

Unit-I Basic Concepts

Meaning, Definition of Environmental Studies History of Ecology Nature, Scope and importance of Environmental Studies Guiding Principles of Environmental Studies

Unit - II Environmental Hazards

Land Pollution: Air Pollution Water Pollution Noise Pollution Radiation Deforestation Soil Erosion ways of Protecting, Preserving & Restoring Environment

Unit III India And Environmental Issues & Policies

Environmental Problems of India Policies Environmental movements in Inida Chipko movement, Narmadha valley movement - Green

Unit IV Environmental Awarness

Stockholm conference 1972 Nairobi Conference 1982 Rio Summit 1992 Rio Declaration.

Unit-V Methods Of Teaching And Environmental Education In School Curriculum In India

Education Lecture, Demonstration, Discussion, Seminar, Workshop, Dialogue ,Problems, Exhibition, Role of India Pre School Elementary, Secondary, Higher Secondary CBSE, State syllabus

References:

- Miller T.G. Jr., Environmental Science (Wadsworth Publishing Co.)
- ☐ Rao, M.N. and Datta, A.K. Waste Water Treatment (Oxford and IBH Publ.Co. Pvt. Ltd.)1987

Credit: 3

- ☐ Townsend C. and others, Essentials of Ecology (Black well Science)
- ☐ Miller T.G. Jr., Environmental Science (Wadsworth Publishing Co.)
- RA, Raju Technology of Water Management Best sellers, India books

MEC 206 Sports Nutrition and Health Promotion

Objectives: After studying this paper the student teachers will be able:

- > To know nutrition, diet chart for specific sports and diseases
- To know food labelling, pyramid and food choices.
- > To know nutrition and weight management.
- To know health related diseases and management.
- To know about physical exercise for health promotion

Unit I - Introduction

Meaning, definition of nutrition, Nutrients sports nutrition diet athletes' diet

Unit II - Sports Nutrition

Athletic food pyramid - Diet chart for specific sports and specific diseases -Nutrition labelling information, Food Choices, Food Guide Pyramid, Influences on food choices-social, economic, cultural, food sources, Comparison of food values.

Unit III - Weight Management

Weight Management-proper practices to maintain, lose and gain. Eating Disorders, Proper hydration, the effects of performance enhancement drugs Lipoproteins, cholesterol, phospholipids and triglycerides,

Unit IV - Injury prevention

Treatment of hyper cholesteremia with exercise, cigarette smoking and exercise, Hypertension and exercise, exercise in the prevention of heart diseases, diabetes mellitus and exercise. Risk factors of coronary heart disease carbohydrate loading, fluid replacement before, during and after exercise for injury prevention ~ electrolytes and its need in athletic performance.

Unit V - Health Promotion

Nutrition for the promotion of health Physical exercise for the health promotion

REFERENCE:

- DaVidK. Miller and T. EarlAllen, Fitness, Alife time commitment, Suijeet Publication Delhi 1989.
- Difficore Judy, the complete guide to the postnatal. fitness,. A and C Black Publishers Ltd. 35 Bedford row, London 1998
- Dr. A.K. Uppal, Physical Fitness, Friends Publications (India), 1992. Warner W.K. Oegerand Sharon A. Hoeger, Fitness, and: Wellness, Morton Publishing Company, 1990.
- Elizabeth and Ken day, Sports fitness forwomen, B.T. Batsford Ltd, London, 1986.
- Emily R. Foster, Karynl-Iartigerand Katherine A. Smith, Fitness Fun, Human Kinetics Publishers 2002.
- ☐ Lawrence, Debbie, Exercise to Music. A and C Black Publishers Ltd. 3 7, Sohe Square, London 1 999
- Robert Malt. 90 day fitness plan, D.K. publishing, Inc. 95, Madison Avenue, New York 2001

SEMESTER III

MCC 301

Scientific Principles of Sports Training

Credit: 4

Objectives: After studying this paper the student teachers will be able:

- To know about Aim, characteristics, and loading in sports training
- To know about Strength, Endurance, Speed and their training methods
- To know about Flexibility, Coordinative abilities their characteristics,
- > means and methods of training
- To orient with training plans.
- To gain knowledge on genetic doping and technological doping.
- > Curriculum Design in Physical Education

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

UNITII - Strength, Speed and Endurance

Strength: Methods to improve Strength: Weight Training, Isometric, Isotonic, Isokinetic 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 and Coordinative ability

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

UNITY-Doping

Definition of Doping Genetic doping and Technological doping - Side effects of drugs Dietary supplements IOC list of doping classes and methods. Blood Doping The use of erythropoietin in blood boosting Blooddoping control The testing programmes Problems in drug detection 5 Blood testing indoping control-Problems with the supply of medicines Subject to IOC regulations: other-counter drugs (OTC) prescription only medicines (POMS) Controlled drugs (CDs). Reporting test results Education

REFERENCES:

- BeotraAlka, (2000), Drug Education Handbook on Drug Abuse in Sports. Delhi: Sports Authority of India. I
- Bunn, J.N. (1998) Scientific Principles of Coaching, New Jersey Engle Wood Cliffs, Prentice Hall Inc.
- ☐ Cart, E. KlafsandDaniel, D. Arnheim (1999) Modern Principles ofAthletic Training St. Louis C. V Mosphy Company
- Daniel, D. Arnheim (1991) Principles of Athletic Traning, St. Luis, Mosby Year Book David R. Mottram (1996) Drugs in Sport, School of Pharmacy, Liverpool: John Moore University A 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. and 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
- YograjThani (2003), Sports Training, Delhi : Sports Publications.

MCC 302 Curriculum Design in Physical Education

Credit: 3

Objectives: After studying this paper the student teachers will be able:

- > To know the curriculum design and curriculum framework
- > To know the government policy on curriculum
- To develop the ability to frame curriculum in physical education
- > To understand the factors that influences curriculum

- To gain knowledge on the integration of physical education curriculum
- > with other subjects
- To know the grading, appraisal and evaluation techniques
- To perform curriculum research

UNIT I - Introduction to Curriculum and Curriculum Design

Meaning and Definition of Curriculum and Curriculum Design. Basic Principles for planning Curriculum design Construction: Students centred, Activity centred, Community centred, Forward looking principle, Principles of integration, Old and modern concept of curriculum patterns of curriculum

UNIT II - Basic Principles of curriculum development

Major steps in curriculum development, formulation, aims and objectives-selecting curriculum content-criteria for curriculum content-satisfaction and integration of content preparation of instructional materials-evaluation. Materials for curriculum activities-experience-teaching method-curriculum design-curriculum content - text books-JournalsDictionaries, Encyclopedias, Magazines

UNIT III - Curriculum Sources

Sources of Curriculum text books-Journals - Dictionaries, Encyclopaedias, Magazines, Internet.

UNIT IV - Integration of Physical Education with other faculties

Integration of Physical education and other faculties-integration of Physical Education with philosophy, psychology, sociology, history, physical chemistry, statistics, anatomy and physiology, sports medicine, physiotherapyand anthropology.

UNIT V - Curriculum Research, Appraisal or evaluation

Definition of research-curriculum research-objectives of curriculum research-curriculum and basic research curriculum-applied research-curriculum action research Historical. study. and curriculum experimental research Importance of curriculum research characteristics, Types and importance of evaluation in curriculum

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.
- Carl, E, Willgoose. (1982. Curriculum in Physical Education, London: Prentice Hall.
- John, E, Nixon and 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.
- ☐ Carlson P . Roles of Supervision and Curriculum design in Physical Education Prentice Hall

- Cowell CC and Haxieton HW, The curriculum in Health and Physical EducationPrentice Hall Thomas JP, Organization of Physical EducationGnanodaya Press, Madras
- Farys CF and Ray O, Administration of Phy., Edn.., Duncan, Prentice Hall
- Joseph PM, Organization and Administration of Physical Education TIPE Kandivili, Bombay Humphrey JH, Elementary School Physical Education Harper and Brothers, New York

Credit: 3

- NCERT (2005). National Curriculum Framework, New Delhi: NCERT.
- NCERT (2005). National Curriculum Framework-2005, New Delhi: NCERT.

MCC 303 Sports Biomechanics and Applied Kinesiology

Objectives: After studying this paper the student teachers will be able:

- To know Kinesiology and Biomechanics
- To know various muscle location action and insertions.
- To again knowledge on motion, force, friction and their application in sports
- To understand projectile, stability and dynamics in sports
- > To analysis sports movements

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 - MuscleAction

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, circularmotion, 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 - MovementAnalysis

Analysis of Movement: Types of analysis: Kinesiological, Biomechanical. Cinematographic. Methods Sports and Games analysis.

REFERENCE:

- Deshpande S.H.(2002). ManavKriyaVigyan Kinesiology, Amravati Hanuman Vyayam Prasarak Mandal.
- Hoffman S.J. Introduction to Kinesiology (Human Kinesiology publication In. 2005.
- Steven Roy, and Richard Irvin. (1983). Sports Medicine. New Jersery: Prentice hall.
- Thomas. (2001). Manual of structural Kinesiology, New York: Me Graw Hill.

- UppalA.K. Lawrence Mamta MP Kinesiology(Friends Publication India 2004)
- Uppal, A (2004), Kjnesiology in Physical Education and Exercise Science, Delhi Friends publications.
- Williams M (1982) Biomechanics of Human Motion, Philadelphia; Saunders Co.

MEC 304 Information and Communication Technology in Credit: 3 Physical Education

Objectives: After studying this paper the student teachers will be able:

- To know about information and communication technology.
- > To know computers and types.
- > To know MS Office and application.
- To know approaches to ICT.
- To understand E-Learning and visual classroom.

Unit I - Communication and Classroom Interaction

Concept, Elements, Process and Types of Communication. Communication Barriers and Facilitators of communication Communicative skills of English - Listening, Speaking, Reading and Writing Concept and Importance of ICT - Need of ICT in Physical 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 and Applications of Computers Hardware of Computer: Input, Output and Storage Devices Software of Computer: Concept and Types of Computer, Memory: Concept and Types Viruses and its Management Concept, Types and Functions of Computer Networks, Internet and its Applications, Web Browsers and Search Engines, Legal and Ethical Issues

Unit III - MS Office Applications

MS Word: Main Features and its Uses in Physical Education, MS Excel: Main Features and its Applications in Physical Education, MS Access: Creating a Database, Creating a Table, Queries, Forms and Reports on Tables and its Uses in Physical Education MS Power Point: Preparation of Slides with Multimedia Effects, MS Publisher: Newsletter and 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 and 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 S olution Ltd. Introduction to information Technology, Research and Development Wing2006
- Pradeep K. SinhaandPriti; Sinha, Foundations computing BPB Publications -2006.
- Rebecca Bridges Altman Peachrpit Press, Power point for window, 1999
- ☐ Sanjay Saxena, Vikas Publication House, Pvt. Ltd. Microsoft Office for ever one, Second Edition 2006

MEC 305

Sports Sociology

Credit: 3

Objectives: After studying this paper the student teachers will be able:

- To know sports sociology
- ➤ Gain knowledge on culture, elements and functions
- > To know social institutions, sports and politics
- > To understand sports and social stratifications
- To know women and gender issues

Unit I - Introducation to sports sociology

Meaning and definition of sports sociology sport as a social phenomena-sociology of sports as separate discipline, sports and socialization of the individual

Unit II - Sports and culture

Sports and culture basic concepts of culture-elements of culturefunctions of culture-Relationship of sports with other elements of culture social planning and physical culture work, free time and physical culture-physical culture as a requirement of social development-Development of socialistic production and physical culture

Unit III - Social institutions, sports, politics and religion

Relationship of sports with other social institutions- emergence and growth of commercial sports- effects of commercialization on sports, status and incomes of athletes/sports persons in commercial sports. Sports and solidarity political consequences of international sports event- reasons for combining sports and religion similarities and differences between sports and religion

Unit IV - Social mobility and sports

Sports and social Stratification-mobility opportunities sports participation and general career success athletic retirement and social mobility.

Unit V - Women in sports society

Women in sports-participation patterns among women-Gender inequation issues women I sports in future.

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- Craty B], Social Dimensions of physical activity, Prentice Hall, Inc
- ☐ Edwards-(1.986). Sociology of sports,.lllinois Dorsey Press
- ☐ Jay I, Waldy (1986). Sport in society issues and controversies, St. Louis Mosby College Publishing, Co.
- Lay Mepherson and Kenyson, Sports and Social System, Addison Wesley publishing company
- Panna VR (1980). Sports in socialist countries, Allied publishers private ltd, bombay

Sports Engineering

Credit: 3

- > To gain knowledge on sports engineering and technology
- > Gain knowledge on mechanics of engineering materials
- To know about mechanical principles and movements
- To understand the sports dynamics
- To learn about building and maintenance
- To know about Maintenance policy and preventive measures

Unit - I Introduction to sports engineering and Technology

Meaning of sports engineering, human motion detection and recording, human performance, assessment, equipment and facility designing and sports related instrumentation and measurement.

Unit - H Mechanics of engineering materials

Concept of internal force, axial force, shear force, bending movement, torsion, energy method to find displacement of structure, strain energy. Biomechanics of daily and common activities Gait, Posture, Body levers, ergonomics, Mechanical principles in movements such as lifting, walking, running, throwing, jumping, pulling, pushing etc.

Unit- III Sports Dynamics

Introduction to Dynamics, Kinematics to particles rectilinear and plane curvilinear motion coordinate system. Kinetics of particles Newton's laws of Motion, Work, Energy, Impulse and momentum.

Unit- IV Building and Maintenance:

Sports Infrastructure- Gymnasium, Pavilion, Swimming Pool, Indoor Stadium, Outdoor Stadium, Play Park, Academic Block, Administrative Block, Research Block, Library, Sports Hostels, etc. Requirements: Air ventilation, Day light, Lighting arrangement, Galleries, Store rooms, Office, Toilet Blocks (M/F), Drinking Water, Sewage and Waste Water disposal system, Changing Rooms (M/F), Sound System (echo-free), Internal arrangement according to need and nature of activity to be performed, Corridors and Gates for free movement of people, Emergency provisions of lighting, fire and exits, Eco-friendly outer surrounding.;'

Maintenance staff, financial consideration'. Building process:- design phase (including brief documentation), construction phase functional (occupational) life, Reevaluation, refurnish, demolish.

Maintenance policy, preventive maintenance, corrective maintenance, record and register for maintenance.

Unit - V Facility life cycle costing

Basics of theoretical analysis of cost, total life cost concepts, maintenance costs, energy cost, capital cost and taxation

REFERENCE

- Franz K. F. et. al., Editor, Routledge Handbook of Sports Technology and Engineering (Routledge, 2013)
- ☐ Steve Hake, Editor, The Engineering of Sport (CRC Press, 1996) ~ Franz K. F. et. al., Editor The Impact of Technology on Sports II (CRC Press, 2007) Helge N., Sports Aerodynamics (Springer Science and Business Media, 2009)
- oulin Hong, Editor Routledge Handbook of Ergonomics in Sport and Exercise

(Routledge, 2013)

- ☐ Jenkins M., Editor Materials in Sports Equipment, Volume I (Elsevier, 2003)
- ☐ Colin White, Projectile Dynamics in Sport: Principles and Applications
- Eric C. et al., Editor Sports Facility Operations Management (Routledge, 2010)

SEMESTER IV

Credit: 4

MCC 401 Prevention and Management of Sports Trauma

Objectives: After studying this paper the student teachers will be able:

- To understand sports medicine and the causes of sports injuries
- To understand stretching and the advantages and dangers of stretching.
- > To understand rehabilitation injuries and their methods of management
- To known different manipulative techniques, modalities of electrotherapy
- > strapping and techniques of tapping in different regions

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 and SAID principle. 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, Spine Injuries and Corrective Exercise

Normal curve of the spine and its utility, Deviations in posture: Kyphosis, lordosis, flat back, Scoliosis, round shoulders, Knock Knee, Bow leg, Flat foot.Management including exercises. Head, Neck and Spine injuries: F lexion, Compression, Hyperextension, Rotation injuries. Spinal range of motion. Free handexercises, stretching and strengthening exercise for head neck, spine. Supporting and aiding techniques and equipment for Head, Neck and Spine injuries.

Unit III - Rehabilitation Exercises and 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. 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 U1trasonic, Therapy Short wave diathermy therapy. Principles and techniques of Strapping. and=Bandages. Upper Limb and Thorax Injuries: Shoulder: Sprain, Strain, Dislocation, and Strapping. Elbow: Sprain, Strain, Strapping. Wrist and Fingers: Sprain Strain, Strapping. Breathing exercises, Relaxation techniques Fracture at cranium, shoulder, hip knee, ankle 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.

REFERENCES:

- Dohenty. J. Meno. Wetb, Moder D (2000) Track and Field, Englewood Cliffs, Prentice Hal Inc. Lace, M. V. (1951) Massage and Medical Gymnastics, London: J and A Churchill Ltd.
- MCOoyand 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.l. (1965) Corrective Physical education, London: W.B. Saunders and Co.
- ☐ Stafford and Kelly, (1968) Preventive and Corrective Physical Education, New York.
- Christopher M. Norris. (1993). Sports Injures Diagnosis and Management for Physiotherapists. East Kilbride: Thomson Litho Ltd.
- ☐ James, A. Gould and George J. Davies.(1985). Physical Physical Therapy. Toronto: C.V. Mosby Company.
- Morris B. Million (1984) Sports Injuries and Athletic Problem. New Delhi: Surject Publication.
- Pande. (1998). Sports Medicine. New delhi: KhelShitya Kendra
- The Encyclopedia of Sports Medicine. (1998). The Olympic Book of Sports Medicine,
- Australia: Tittel Blackwell Scientific publications Practical: Anthropometric Measurements,

MCC 402 Rules of Sports and Games(Basketball, Cricket, Football, Handball, Hockey, Track and Field, Volleyball) Credit: 4

Objectives: After studying this paper the student teachers will be able

- To know the Planning, Construction, Marking of courts and track and field events
- To know the duties of various officials.
- > To know the rules and interpretations
- To know the mechanism of officiating.
- > To know the latest changes and techniques

Unit I - Philosophy of officiating and Mechanism of Officiating

- Qualification and Qualities of an official
- ☐ Philosophy of Off1 ciating
- General principles of oficiating
- Pre, during and post Duties of official
- ☐ Mechanism of officiating
- ☐ Official Signals and powers

- System of officiating
- Position of officiating

Unit II - Dimensions of play field / event

- ☐ Lay out of Standard track/ non standard track / Marking of all the athletic events
- ☐ Lay out of the playfield and marking Specifications of all the equipment used in the event / game

Unit III - Rules and their Interpretations - I

- ☐ Rules of the above mentioned sport / games
- ☐ Interpretations and implications of laws

Unit IV - Rules and their Interpretations - II

- ☐ Rules, Interpretations and Implications of Laws.
- Interpretations and implications of law

UNIT V - Skills./ Techniques, errors, corrections and Lead up games,

- ☐ Skills, techniques, tactics, strategies
- Lead up games to develop the skill/technique
- ☐ Error and corrections of skill / technique
- Drills

REFERENCES:

- ☐ Buck rules book for sports and games, published by NCY's India, New Delhi
- ☐ IAAF, Competion rules book Track & Field
- ☐ F IBA, Official Baketball rules book,
- ☐ ICC, Cricket rules book,
- ☐ FIFA, Laws of the game Football,
- ☐ IHF, Rules of the game Handball,
- ☐ FIH, Rules of Hockey,
- ☐ F IVB, Official Volleyball rules,

MCC 403 Professional Preparation For NET/SET/TRB/TNPSC Credit: 4

Objectives

- > Acquisition of knowledge and understanding
- > Development of conceptual. Intellectual and subject specific skills
- > Understand the basic concepts of quantitative ability
- > Understand the basic concepts of logical reasoning Skills
- Acquire satisfactory competency in use of verbal reasoning
- Solve campus placements aptitude papers covering Quantitative Ability, Logical Reasoning and Verbal Ability
- To make students eligible for the post of assistant professor and/or Junior Research Fellowship award in Indian universities and colleges..

Unit -I:

Physical education and adapted physical education, their objectives Philosophies of education as applied to physical education

Development of Physical education in Greece, Rome, Sweden, Russia England, Denmark, Germany, USA, Australia and China.

Growth and development of physical education in India:

Recreation- its principles, characteristics and importance. Modern trends in recreation. Indoor

and outdoor recreational programmes. Recreational programmes

for various categories of people.

Wellness its importance, benefits and challenges. Development and maintenance of wellness.

Teaching Aptitude nature, objectives, characteristics of teaching, learner characteristics and teaching methods.

Social aspects of sports-sports as a socializing agency, social values, sports leadership, sports as cultural heritage and social aspects of competition.'

Ancient & Modern Olympics games, Asian and Commonwealth games.

Structure and functions of international and national bodies controlling various games and sports,. Prominent honours and awards in games and sports.

Unit-II:

Exercise physiology its scope and importance in the field of physical education and sports.

Cardio respiratory adaptations to long and short term physical activities.

Muscle- its types, characteristics and functions. Microscopic structure of muscle fibre. Sliding filament theory of muscular contraction. Types of muscle fibres and sports performance. Muscular adaptations to exercise.

Neuro-muscular junction and transmission of nerve impulse, kinesthetic Sense organs and neural control of motor skills.

Bio-chemical aspects of exercise Metabolism of food products. Aerobic and anaerobic systems during rest and exercise. Direct and indirect methods of measuring energy cost of exercise.

Recovery process - Physiological aspects of fatigue. Restoration of energy stores. Recovery oxygen. Nutritional aspects of performance.

Environmental influence on human physiology under exercise.

Women in sports trainability. Physiological gender differences and special problems of Women athletes.

Aging - Physiological consequences, life style management and healthful aging. Physiological responses of various therapeutic modalities and rehabilitation.

Physiological aspects of various Ergogenic aids. Massage manipulations and their physiological responses.

Unit-III:

Kinesiology and biomeehanics. 'Modern trends in biomechanics. Planes and Axes of human body. Joints and their movements.

Muscle attachments - Origin, insertion, action and leverage of the principal muscles used in sports.

Motion: its laws and their application in sports. Projectile and principles of projections

Linear and angular kinematics and kinetics.

Friction, Spin, impact and elasticity.

Air and water dynamics.

Mechanical advantage and applications of Levers in sports.

Posture and its deformities with their corrective exercises.

Kinesiological, Muscular and mechanical analyses of fundamental movements:

Mechanical analyses of major sports skills

Unit IV:

Sports psychology- its importance in the field of physical education and sports. Motivation in sports-types, theories and dynamics.

Psychological factors affecting sports performance- Emotions, Anxiety aggression, stress, self confidence, concentration, mental practice and goal setting.

Personality Theories of personality, measurement of personality.

Group dynamics, Group cohesion and leadership in sports.

Cognitive process memory and thinking. Principles of Motor skill learning.

Transfer of training and its, 'ty'pes with its implication in sports.

Long and short term psychological preparation for performance/ competition. Psychological skill training for activation and relaxation

Spectators and sports performance.

Unit-V:

Development of teacher education for physical education in India. Comparative study of professional preparation in physical education of India with those of USA, Russia, Germany, Australia and UK.

Professional and other courses of physical education in India. Role of Government agencies monitoring professional courses in physical education.

Qualities, qualifications and responsibilities of physical education personnel at primary, secondary and higher education levels. Scope of physical education personnel in the promotion of health, fitness and wellness.

Recent Government policies for promoting physical education and sports in India.

Hierarchy of organizational set-up in physical education at schools, colleges and university level.

Role of public & private sectors in the promotion of physical education and sports in the country.

Curriculum development- Concepts and principles of curriculum planning. Subject matter for different levels of education - primary, secondary and higher education.

Curriculum design and content importance, selection and classification of subject matter with reference to age, sex and differently abled pupils. Integrated programme for boys and girls.

Teaching aids - Timetable, Concepts, credit system for various subject courses- theory and practical, Impact of technology in physical education and sports,

Curriculum evaluation: Concepts and purpose; procedure and appraisal.

Unit -VI:

Health- its objectives and spectrum. Health education, its importance and principles . Role of genetics and environment in achieving health. Health-related physical fitness.

Community health progra1n1ne Health appraisal & health instructions. International and national health promoting government & private agencies.

School Health programme and personal hygiene.

Communicable diseases: causes, symptoms, prevention through other means and Immunization.

Psychosomatic disorders/ sedentary life style diseases: causes, symptoms and prevention. .

Obesity related health problems. Body Weight control and its significance on health. Role of exercise, dieting and combination of exercise & dieting on Weight control.

First-aid- objectives and principles. First-aid for Shock, poisoning, burns, drowning,

bleeding, electric shock and common sports injuries.

Pollution- Air, water, sound and radiation. Effects of pollution on health, Preventive and safety measures from pollution.

Nutrition- Balanced diet and its components. Nutritional Deficiencies. Understanding of malnutrition and nutritional supplements.

Effects of smoking, alcohol, & drugs on health; prevention and rehabilitation.

Unit VII:

Sports training its characteristics and principles. Training load, its features, principles and adaptation process. Means and methods of executing training load. Overload, its Causes, symptoms and remedial measures.

Strength- its characteristics, types of strength, factors determining strength and strength development.

Endurance- its characteristics, types of endurance, factors determining endurance and endurance development.

Speed- its characteristics, types of Speed, factors determining Speed and speed development.

Flexibilityits characteristics, types of flexibility, factors determining flexibility and flexibility development.

Coordinative abilities- its characteristics, types of coordinative abilities, factors determining coordinative abilities and development of coordinative abilities.

Technique and skill- its characteristics and importance. Different stages of technique development and technique training. Tactics and strategy.

Planning- its importance and principles. Types of planning.

Periodization- its importance, objectives and types of periodization. Concept of different periods-Preparatory, competition and transitional. Types of Competition:

Talent identification process and procedure.

Unit VIII:

Research in physical education- its importance and classification. Ethical issues in research.

Methods of research-Descriptive, historical and experimental. Experimental research designs.

Identification and formulation of research problem. Types of research hypotheses and their formulation. Hypotheses testing.

Tools of research-Questionnaires, opinionnaires, interviews and observation.

Sources and steps of literature search-library, research data bases, internet-search engines, online journals. Note taking and critical reading.

Sampling Techniques-Probability and non probability.

Data, its types and collecting measures.

Normal probability curve and grading scales.

Statistical processes, their importance and uses in research. Application of parametric and non parametric statistical techniques in research.

Computer applications statistical packages for data analyses SPSS, e-mail, search engines and Microsoft office.

Preparation of research proposal, report, abstract, paper for publication and paper for presentation.

Unit-IX:

Test, measurement and evaluation -their types and importance in physical education and sports. Principles and processes of evaluation in physical education.

Criteria of selecting an appropriate test and administration of testing programme.

Types of tests and construction of standard knowledge and skill tests.

Tests for fitness- Physical fitness, motor fitness, motor ability and motor educability. Health related fitness tests.

Test for fitness components-strength, endurance, speed, flexibility and coordinative abilities.

Sports skill tests Badminton, Basketball, Football, Hockey, Tennis, and Volleyball.

Anthropometric Measure1nents- land marks and measurement of various body segments ,height, sittingheight, weight, diameters, circumferences, skinfolds,

body mass index, ponderal index. Somatotype and Posture evaluating techniques.

Testing of physiological phenomenons- Blood pressure, breathing frequency vital capacity, heart rate, pulse rate, body temperature and body composition.

Tests for psychological Variables-Anxiety, aggression, team cohesion, achievement motivation, mental-toughness, and self-efficacy.

Unit-X:

Management- its prin ciples and theories. Scope of management in physical education and sports. Guiding principles for organizing physical education & sports programmes in institutions.

Personnel management- objectives and principles. Self-appraisal, communication skills and time management. Essential skills of administration.

Financial management- objectives, purposes, principles and scope. Planning and preparation of budget. Mechanics of purchase and auditing.

Supervision - objectives, principles and importance of supervision. Techniques of supervision. Duties and responsibilities of a supervisor.

Facility management- planning, procuring and maintenance of facilities indoor and outdoor facilities. Planning and management of sports infrastructure. Management of records.

Role of sports manager interpersonal, informational and decision making. Managerial skills technical, human and conceptual. Qualities and qualification of sports manager.

Event management- its principles, planning, check list, rehearsal, itinerary, execution, reporting and follow-up procedures of an event.

Public relation- principles of public relations in physical education and sports. Mass Mediacommunication and publicity, qualifications of Public relation officer.

MCC 404 Dissertation Credit: 4

Objectives: After studying this paper the student teachers will be able To prepare proposal and research report.

- To orient student to prepare topic for research
- To learn how to review the literature online and offline.
- > To design and collect the samples
- > To analyse the data using statistical tool.
- > To prepare conclusion and summary.
- 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 C.R.C. (College Research Committee).

- 2. A candidate selecting dissertation must submit his/her dissertation on the last day of the IVth Semester Examination.
- 3. The candidate has to face the Viva-Voce conducted by CRC.

Practicals

Semester I

MPC 107 Throw Events, Aerobics

Throw Events

Specific Warm ups

Basic Skills and techniques of the Throwing events

Rules and officiating of various events

Organizing and marking for Various events

Active practice with drills

Aerobics

Rhythmic Aerobics - dance

Low impact aerobics - High impact aerobics - Aerobics kick boxing

March single, basics, side to side alternate, turn s/a ,double side to side, step touch, touchout, grapevine, V-Step, Diamond, Powerwalk, Jazz Square, Hamcurl, knee up, leg curl, kick front, toe touch, kick side, lunges, over the top,backlunge, straddle, kick front, travel's, kick side, corner, heel to reft, shape, 'e'shape, 'A'shapeW, shape, repeater left modeWarln up and cool down Being successful in exercise and adaptation to aerobic Workout.

MPC 108 Yoga, Exercise Physiology Lab

Yoga

Yoga, Asanas prescribed by Maharshi 'Patanj ali', ShudhiKriyas, jalneti, sutraneti,dugdhaneti, kunj al, Nauli, Bhastika, shatkriya, Pranayams, Anulom-vilom, Kapalbhati,

Exercise Physiology Lab

The students should learn the basic theoretical concepts and measurement techniques in the following:

- 1. Measurement of body composition.
- 2. Blood pressure and heart rate, ECG Measurements.
- 3. Field and lab test to determine anaerobic power and aerobic capacity.
- 4. Anthropometric measurement.
- 5. Theoretical concepts of Biochemical measurements (Glucose, lactic acid and fat Profiles)
- 6. Body fat analyser
- 7. Lung capacity measurement

MPC 109 Specialization lst Best / MPC 110 Specialization 2nd Best Track and Field

Javelin

Introduction

Safety Suggestion

Technique

- a) Runup
- b) Cross steps, cross over or impulse step
- c) Throwing position
- d) The Throw
- e) Reverse

Teaching steps

Step 1: Lead ups.

Step 2: A side throw with a ball in javelin technique

Step 3: A standing throw with a javelin

Step 4: A javelin throw using a run- up

Common erros and corrections

Training schedule

Shot Put

Introduction

Safety suggestion

Technique (a) Glide or O'Brien Technique (b) Rotary Technique.

Teaching Steps

Step 1: Lead ups

Step 2: Shot put from standing position

Step 3: Shot put using the glide technique

Step 4 : Shot put using rotary technique

Common errors and corrections

Training schedule

Hammer Throw

Introduction

Safety suggestion

Technique

- a) Initial stance
- b) Preliminary swings
- c) The turns
- d) The Delivery (Release)
- e) TheReverse

Teaching steps

Step I: Lead-ups

Step 2: Hammer throw

Step 3: Hammer turns

Step 4: Combining hammer swings, turns and Delivery (Release)

Common errors and corrections

Training schedule

Discus Throw

Introduction

Safety suggestion

Technique

Grip and wind up

Rotation.

Throw and reverse

Teaching steps

Step 1: Lead-ups

Step 2: Standing throw using a discus substitute

Step 3: Rotational throw using discus substitute

- c) Throwing position
- d) The Throw
- e) Reverse

Teaching steps

Step 1: Lead ups.

Step 2: A side throw with a ball in javelin technique

Step 3: A standing throw with a javelin

Step 4: A javelin throw using a run- up

Common erros and corrections

Training schedule

Shot Put

Introduction

Safety suggestion

Technique (a) Glide or O'Brien Technique (b) Rotary Technique.

Teaching Steps

Step 1: Lead ups

Step 2: Shot put from standing position

Step 3: Shot put using the glide technique

Step 4 : Shot put using rotary technique

Common errors and corrections

Training schedule

Hammer Throw

Introduction

Safety suggestion

Technique

- a) Initial stance
- b) Preliminary swings
- c) The turns
- d) The Delivery (Release)
- e) TheReverse

Teaching steps

Step I: Lead-ups

Step 2: Hammer throw

Step 3: Hammer turns

Step 4: Combining hammer swings, turns and Delivery (Release)

Common errors and corrections

Training schedule

Discus Throw

Introduction

Safety suggestion

Technique

Grip and wind up

Rotation.

Throw and reverse

Teaching steps

Step 1: Lead-ups

Step 2: Standing throw using a discus substitute

Step 3: Rotational throw using discus substitute

Step 4: Standing throw with the discus

Step 5: Rotational throw with the discus.

Common erros and corrections

Training schedule

Basketball

- 1. Origin and Development of the Game
- 2. Federations, Associations, Councils in India and World
- 3. Types of courts/ fields and types of surfaces.
- 4. Plan of laying court/ field with all measurements and marking.
- 5. Players/ Athletes equipment
- 6. Skills and teaching procedures.
- a) Players stance and ball handling
- b) Passing and receiving technique.
 - Types of passes
 - Types of receiving
- c) Dribbling
 - how to start a dribble stop a dribble
 - high dribble reverse dribble
- d) Shooting
 - Lay up shot
 - One hand set shot
 - Jump Shot
 - Hookshot
 - Free throw

Cricket

- 1. Origin and Development of the Game
- 2. Federations, Associations, Councils in India and World.
- 3. Types of courts/ fields and types of surfaces.
- 4. Plan of playing court/ field with all measurements and markings.
- 5. Players / Athletes equipment
- 6. Skills and teaching procedures.
- A) Batting skills
 - Grip
 - Stance
 - Swing of the bat
 - Follow through
- B) Defensive Skills
 - -Front foot defense
 - Back foot defense

- C) Offensive skills
 - Straight bat stroke on offside
 - Cross bat stroke on offside

Front foot - off drive

on drive

Cover drive

Square drive

Leg glance

pull and front foot hook

front foot square hook.

- Back foot straightbat stroke
- Back foot off drive

on drive

cover drive

leg glance square cut

pull shot

hook shot.

- Running between the wicket

Football

- 1. Origin and Development of the Game
- 2. Federations, Associations, Councils in India and World.
- 3. Types of courts/ fields and types of surfaces.
- 4. Plan of playing court/ field with all measurements and markings.
- 5. Players / Athletes equipment
- 6. Skills and teaching procedures.
- a) Kicking
 - 1. Kicking with inside of the foot (Push Pass)
 - 2. Kicking with the full instep.
 - 3. Kicking with inside of instep (High Drive and Chipping) (Long lofted & Short Lofted Kick)
 - 4. Kicking with the outside of the foot
 - 5. Kicking with Toe and Heel
 - 6. Volley Kicks
- b) Ball reception (Trapping)
 - 1. Trapping the ball with inside of the foot
 - 2. Trapping the ball with instep of the foot
 - 3. Trapping the ball with outside of the foot
 - 4. Trapping the ball with chest
 - 5. Trapping the ball with thigh
 - 6. Trapping the ball with sole of the foot
- c) Dribbling
 - i) Dribbling with. all parts of foot
 - ii) Straight and ZigZag Dribble
- d) Feinting
 - i) Feinting without ball
 - ii) F einting with ball

Handball

- 1. Origin and Development of the Game
- 2. Federations, Associations, Councils in India and World
- 3. Types of courts/ fields and types of surfaces.
- 4. Plan of laying court/ field with all measurements and marking.

- 5. Players/ Athletes equipment
- 6. Skills and teaching procedures.
 - a) Players stance and Ball handling
 - b) Passing and Catching

Types of pass: (i) Wrist pass (ii) Body cross pass (iii) Back pass

- c) Dribbling: (i) High dribble (ii) Low dribble
- d) Shooting: (i) Foot step (ii) Release

Hockey

- 1. Origin and Development of the Game
- 2. Federations, Associations, Councils in India and World.
- 3. Types of courts/ fields and types of surfaces.
- 4. Plan of playing court/ field with all measurements and markings.
- 5. Players/ Athletes equipment
- 6. Skills and teaching procedures.
- A) Hitting

Straight foot hit

Reverse hit

Wrongfoot hit

Wrist hit

Turn around hit

- B) Stopping
- C) Dribblin

Forehand dribble

Indian dribble

D) Passing

Parallel

Triangle

Through

Diagonal

Square

Cross

Reverse

Volleyball

- 1. Origin and Development of the Game.
- 2. Federations, Associations, Councils in India and World.
- 3. Types of courts/ fields and types of surfaces.
- 4. Plan of playing court/ field with all measurements and markings.
- 5. Players / Athletes equipment.
- 6. Skills and teaching procedures.
- A) Service

under arm service

Tennis service

High spin service

Top spin service

Round arm service

Jump service

Floating service

American floating service

Lateral floating service

B)Passing

Volley pass

dig pass
C) Setting
Back set
High set
Jump set
set with rolling.
Imitation of attack but set

MPC 111 Teaching Practice, Class Room 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.

Teaching lessons of indigenious activities and sports

The students of M.P.Ed I year 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. 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.

Class room teaching

(Lessons on theory of different sports & games)

The students of M.P.Ed I year need to develop proficiency in taking teaching lessons as per selected games and sport or specialization. In View of this, the students shall be provided with selected or specialized sport or 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. 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 less on covered progressively.

Semester II

MPC 207 Sprint, Relay and Hurdle Events, Gymnastics

Sprint, Relay and Hurdle Events Specific Warm ups

- Fundamental skills sprint, hurdle
- Use of Starting blocks stance on the blocks.
- Body position at the start- starting technique, change in body position during running, movements of the arms, stride length and frequency, position of torso while running and at finish.

Fundamentals of Baton exchange in relay

Rules and officiating of various events Organizing and marking for various events Active practice with drills **Gymnastics** Balance beam: Movements on the balance beam - training on the balance beam - balance beam skills mounts and dismount - walking the beam - hops, leaps and jumps turns and pirouettes from a stand hold position (poses) □ Parallel Bar: ☐ Mount from one bar ☐ Straddle walking on parallel bars. ☐ Single and double step walk Perfect swing ☐ Shoulder stand on one bar and roll forward. - Roll side ☐ Shoulder stand - Front on back vault to the side(dismount) ☐ Horizontal / Single Bar: ☐ Grip Swings Fundamental Elements ☐ Dismount ☐ Uneven Parallal Bar: ☐ Grip Swings ☐ Fundamental Elements

MPC 208 Indigenous Activities, Sports Psychology Lab

Indigenous Activities

Rules and Regulations

Exercise with apparatus

Exercise without apparatus

twisting tumbling - doubles tumbling

Exercise on the apparatus

Yogic system

Dismount

officiating

Combat activity

Indigenous Games

Sports Psychology Lab

The students should learn the basic theoretical concepts and assessment technique.

Psychological Assessment and testing.

- 1 .Assessing intelligence
- 2. Testing for special aptitude
- 3. Personality assessment
- 4. Behavioural assessment

MPC 209 Specialization 1st Best / MPC 210 Specialization 2nd Best

Track and Field

Sprint

Introduction

Safety Suggestion

Teaching steps

- a) Leads -ups
- b) Sprinting technique
- c) Sprint starts

Common errors and corrections

Training schedule

Sprint Relays

Introduction

Safety suggestion

Technique.

- 1. The upsweep technique
- 2. The Down sweep technique
- 3. Push forward pass

Teaching steps

Step 1: Lead - ups

Step 2: Drills for elementary and advanced baton exchanges

Common errors and corrections

Training schedule

100m. Hurdles (Women)

Introduction

Safety suggestion

Technique

Teaching steps

Step 1: Lead - ups

Step 2: Introduction to hurdling technique

Step 3: Sprint start and Approach to the 1st hurdle

Common errors and corrections

Training schedule

110.m. Hurdles (Men)

Introduction

Safety suggestion

Technique.

Teaching steps

Step 1 2 Lead - ups

Step 2: Introduction to hurdling technique

Step 3: Sprint start and Approach to the 1st hurdle

Common errors and corrections

Training schedule

400m. Hurdle (Men & Women)

Introduction

Safety suggestion

Technique

Teaching steps

Step 1: Lead - ups

Step 2: Development of sprint endurance

Step 3: Hurdling with a right and left leg lead

Step 4: Establishing a stride pattern for the approach to the first Hurdle (and to sub sequent hurdles)

Common errors and corrections

Training schedule

Fundamentals of Jump Events and middle, long distance

Basketball

- 1 . Skills and Teaching Procedures.
- a. Rebound

Offensive rebound

Defensive rebound

b. Individual defence

Guarding the man with the ball

Guarding the man without the ball

c. Pivoting

Sliding

Weave Play

Overload.

- 2. Drills and lead up games
- 3. Rules and interpretations
- 4. Duties of captains, manager and coach
- 5. Mechanism of officiating.
- 6. Terminology used in game/sport
- 7. Important Tournaments.
- (a) India (b) Asia (c) World
- 8. Result and Records of Important Tournaments
- 9. Eminent Personalities.

Cricket

- 1. Skills and Teaching Procedures;
- A) Bowling

Pace Bowling.

- a) Fast bowling
- b) Medium fast
- c) Out swinger
- d) In-swinger
- e) Leg cutter
- f) Off cutter
- g) Yorker
- h) Beamer
- i) Shooter.

Spin bowling

- a) Offspin
- b) Leg spin
- c) Top spin
- d) Chinaman
- e) Googly
- B) Fielding position
 - a) Mid off
 - b) Mid on
 - c) Slips
 - d) Gully
 - e) Point
 - f) Square leg
 - g) Fine leg Deep fine leg
 - h) Mid Point
 - i) Silly point
 - j) Silly mid off
- C) Wicket keeping Skills
- D) Types of Fielding

Orthodox

Long Barrier

Attacking field

- 2. Drills and; lead up games
- 3. Rules and interpretations
- 4. Duties of captains, manager and coach
- 5. Mechanism of officiating
- 6. Terminology used in game/sport
- 7. Important Tournaments. (a) India (b) Asia (c) World
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Football

- 1. Skills & Teaching procedures
- a) Heading
 - i) Heading in standing position

Forward.

To the side

Backward

- ii) Headings while running
- iii) Heading While jumping
- iv) Diving heading
- b) Throw in
 - i) From a standing position
- ii) After an approach run
- c) Tackling
 - i) Front Block tackling

- ii) Block tackling from side (sliding tackle)
- d) Goal keeping technique
- i) Movements Without the ball
- ii) Techniques of catching the low ball
- iii) Techniques of catching medium and high ball
- iv) Punching the ball
- v) Deflecting the ball
- vi) Attacking techniques
- 2. Drills and lead up games
- 3. Rules and interpretations
- 4. Duties of captains, manager and coach
- 5. Mechanism of officiating
- 6. Terminology used in game/sport
- 7. Important Tournaments.
- (a) India (b) Asia (c) World
- 8. Results and Records of Inportant Tournaments.
- 9. Eminent Personalities.

Handball

- 1 . Skills and Teaching Procedure
- a) Shooting
- (i) Jump shot long
- (ii) Jump shot high
- (iii) Straight Shot with blocking step
- (iv) Straight Shot without blocking step
- (V) Hip shot
- (vi) Lob
- b) Throw-in
- (i) Throwin from a standing position
- (ii) Throw-ofi' from a standing position
- c) Penalty shot
- d) Pivot
- e) Goal keeping
- 2. Drills and lead up games
- 3. Rules and Interpretations
- 4. Duties of Captains, Manager and Coach
- 5. Mechanism of Officiating
- 6. Terminology used in Hand ball
- 7. Tournaments
- 8. Results and Records of important tournaments
- 9. Eminent Personalities

Hockey

- 1. Skills and Teaching Procedures
- a) Flicking
- Straight flick

Wrong foot flick

Reverse flick

b) Scooping

Straight scoop

Reverse scoop

Shovel scoop

Overhead scoop

c) Tackling

Lunge tackle

Jab tackle

- d) Dodging
- 2. Drills and lead up games
- 3. Rules and interpretations
- 4. Duties of captains, manager and coach
- 5. Mechanism of officiating
- 6. Terminology used in game/sport
- 7. Important Tournaments.
- (a) India (b) Asia (c) World
- 8. Results and Records of Important Tournaments.
- 9. Eminent Personalities.

Volleyball

- I. Skills and Teaching Procedures
- a) Blocking

Single block - Triple block - Commit block - aggressive block

Double block Man to man' block- Zonal block- Soft block

b) Spiking

Straight smash

Cross court spike

Down-the line attack -

c) Receiving

Five man receive

Four man receive

- 2. Drills and lead up games
- 3. Rules and interpretations
- 4. Duties of captains, manager and coach
- 5. Mechanism of officiating
- 6. Terminology used in game/ sport
- 7. Important Tournaments.
- (a) India (b)Asia(c) World
- 8. Results and Records of important Tournaments.
- 9. Eminent Personalities.

MPC 211 Teaching Practice, Class Room Teaching

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Semester III

MPC 307 Jump Events, Swimming

Jump Events

Specific warm ups

Basic Skills and techniques of the Jumping events

Rules and officiating of various events

Organizing and marking for various events

Active practice with drills

Swimming

Fundamental swimming skills

Back paddle ~ Dog paddle-

Crawl - Front crawl back crawl

Body position -leg action - arm action - propulsive phase - recovery phase -

breathing pattern Sculling

Breast stroke - butterfly stroke

Backstroke turn - pivot position push off - approach to the turn

Drills for the various strokes - breathing drills - kicking drills - arm action drills

Rules and regulations -

officiating

MPC 308 Martial Arts, Biomechanics and Kinesiology Lab

MartialArts

Karate:

- Player Stances walking, hand positions, front leaning, side-fighting.
- Hand Techniques Punches (form of a punch, straight punch, and reverse punch), Blocks (eight basic).
- Leg Techniques Snap kicks, stretching straight leg, thrust kicks, sidekicks, round house.
- ☐ Forms The first cause Katas.
- ☐ Self Defense against punches, grabs and strikes, againstbasic weapons (knife, club sticks).
- Sparring One step for middle punch, high punch and groin punch. (Defended by

appropriate block from eight basic blocks). And advance skills

Biomechanics and Kinesiology Lab

The students should learn the basic theoretical concepts and measurement technique in the following.

- 1. Analysis of movement, analysis of ankle of j oint and j oint mobility during locomotor skills and
- analysis of range of movement.
- 2. Cinematographic analysis
- 3. Visual and instrument analysis of fundamental motor skill (walking, running, throwing, catching, pushing, lifting, hitting, striking, kicking, jumping)
- 4. Analysis of skills and techniques in Basketball, Cricket, football, hockey, volleyball, athletics, swimming and gymnastics

MPC 309 Coaching Lesson and Officiating in Track & Field

The students of MPEd II year need to develop proficiency in taking coaching lesson and officiating on Track & field. In view of this the students shall be provided with advance training, Coaching and Mechanism of officiating in Track & Field. 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. 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.

MPC 310 Coaching Lesson and officiating in Specialization 1" Best

Coaching Lessons and Officiating Lesson of Track and Field / BB / CR/FB / HO / VB The students of M.P.Ed 11 year need to develop proficiency in taking Coaching lesson and officiating lesson on selected above discipline. In view of this, the students shall be provided with advance training, coaching and 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. 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.

Specialization 1st

Best Track and Field Broad Jump

Introduction

Safety Suggestion

Teaching steps

- a) Lead ups b) Elementary long jump and runup
- c) Technique I) The hang technique
 - II) The Hitch-Kick technique

Common errors and corrections

Training schedule

High-Jump

Introduction

Safety suggestion

Technique

Fosbury Flop

Straddle

Teaching steps

Step 1: Lead - ups

Step 2: Flop High Jump using a short (3 stride) Run- Up

Step 3: Flop High Jump using an extended (curved) run - up

Teaching steps for straddle

Common errors and corrections

Training schedule.

Pole-Vault

Introduction

Safety suggestion

Technique

- a) Grip, carry and run-up
- b) The pole plant
- c) The take-off
- d) The rock back phase
- e) Action over the bar and bar clearance

Teaching steps

Step 1:Lead-ups

Step 2: Swing and Half rotation on the pole

Step 3: Intermediate pole Vault skills

Common errors and suggestions

Training Schedule

Triple Jump

Introduction

Safety suggestions

Technique

- a) The Hop
- b) The Step
- c) The Jump

Teaching steps

- a) Lead ups
- b) The Tripple Jump.

Common errors and corrections

Training schedule

Basketball

- 1. Different training methods
- 2. Training schedule

off season

in season

3. Tactics

Offensive tactics

- a) Give and go
- b) Screening
- c) Splitting the post
- d) Out numbering situation

Defensive tactics

- a) Switching
- b)Sandwich

Cricket

1. Training schedule

offseason

inseason

2. Tactics

Batting tactics

Bowling tactics

Fielding tactics

Tactics for limited over matches

Tactics for test matches

Football

- 1. Different training methods
- 2. Training schedule

offseason

inseason

- 3. Tactics
 - i) Team Tactics
 - ii) In attack

Defending play of attackers

Changing position

Wing Play

Play in Centre of attack

Counter attack

b) In defence

Defending the goal

Winning the ball

Offside tactics

Team Work with goal keeper

- ii) Individual tactics
- a) In attack

Getting free

Dribbling

Passing

Shooting

b) In defence

Marking and tackling

Handball

- 1. Different training methods
- 2. Training schedule
- i) offseason
- (ii) In season
- 3. Tactics
- (a) Offensive tactics
- (i) Passing (ii) Screening (iii) Out numbering situation
- (b) Defensive tactics
- (i) Blocking (ii) Man change

Hockey

- 1. Different training methods
- 2. Training schedule

offseason

in season

3. Team Tactics

Defensive tactics

Individual defensive tactics

Team defensive tactics

Offensive tactics

Individual offensive tactics

Team offensive tactics

Man to man defence.

Volleyball

- 1. Different training methods
- 2. Training schedule

offseason

in season

3. Team Tactics

Offensive team tactics

Triple play - Three point attack - Double play - left and right flang attacks - crisscross Offence - secondline attack moving attack, rapid smashing tactics .- system of offence.

The six spikes system - 4-2 system - The 3-3 system- The 2-4 system selling the dummy - general observation.

MPC 311 Internship

The MPEd.,programme shall provide for sustained field work with learners and the institution, thereby creating congenial atmosphere. The programme shall include teaching basic skills in sports and games and indigenous activities giving exposure to students in all such activities. Internship would include engagement with the community, ie., school/ college/ sports organization/ sports academy/ sports club and should have the following components teaching, coaching and officiating.

Semester IV

MPC 405 Middle and Long distance events, Training Methods

Middle and Long distance events

Specific warm ups

Basic Skills and techniques of the Middle and Long distanceevents

Rules and officiating (measuring, timing) of various events

Organizing and marking for various events

Training Methods

Understanding sports training principles

Periodization of training

Training load and recovery

Training intensity-Volumefrequency

Different type of physical activity- duration-

Training for motor components

Training foe health related physical fitness components

Training for skill related physical fitness components

MPC 406 Mass Drill, Sports Injury and Rehabilitation Lab

Mass Demonstration Activities lezium, dump-bell, umbrella, 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 Sixteen Count.
- Standing Exercise
- Jumping Exercise
- Moving Exercise
- Combination of above all

Sports Injury and Rehabilitation Lab

The students would have the hands on experience of Sports First Aid by Covering the Sports competition, Intramural, Inter Physical Education competitions and other competitions.

- 1. Assessment of Injured Athlete
- 2. Management of Injuries (Closed)
- 3. Management of Open Wounds
- 4. Rehabilitation of Injuries
- 5. Return of the Athlete to Sport with proper testing and assessment.

MPC 407 Coaching Lesson and Officiating in Track & Field

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MPC 408 Coaching Lesson and officiating in Specialization 1" Best

Coaching Lessons and Officiating Lesson of Track and Field /BB / CR / FB /HO /VB

The students of M.P.Ed II year need to develop proficiency in taking Coaching lesson and officiating lesson on selected above discipline. In view of this, the students shall be provided

with advance training, coaching and 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. 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.

Specialization 1st Best

Track and Field

Middle Distance (800 mts, 1500 mts)

Introduction

Safety Suggestion

Technique

a) Body Position

b) Stride length

c) Knee lift

d) Pace I tempo

e) Ann action

Teaching steps

Step 1: Leads ups

Step 2: Endurance training

Common errors and corrections

Training Schedule

Long Distance

Introduction

Safety suggestion

Technique '

Teaching steps

Step I: Leads: ups

Step 2: Endurance training

Step 3 : Power & Resistance training

Step 4: MixingAerobic and Anaerobic training

Common errors and corrections

Training schedule

20 KM Walking

Introduction

Fundamental mechanics of walking

Technique

a) Leg movement

b) Trunk carriage

c) Arm action

d) Hip action

e) Common errors and corrections

Training schedule

Steeplechase

Introduction

Safety suggestion

Technique

Teaching steps

Step 1: Leadups

Step 2: Development of Aerobic and Anaerobic endurance

Step 3: Steeple chase hurdle and water - jump clearance

Common errors and corrections

Training schedule

Marathon

Introduction

Technique

- 1. Body position
- 2. Stride length
- 3. tempo
- 4. arm action

Teaching steps

Common errors and corrections

Training schedule

Cross Country

Introduction

Technique

- 1. Body position
- 2. Stride length
- 3. Tempo
- 4. Arm action

Teaching steps

Common errors and corrections

Training schedule

Decathlon

Introduction

Technique

Teaching methodology

Common errors and corrections

Training schedule

Hepathlon

Introduction

Technique

Teaching methodology

Common errors and corrections

Training schedule

Basketball

1. Team tactics

Offensive

- a) Fast break
- b) Offensive against man to man defense Strategy

Set Play

Evaluation of players

Selection of team

Mechanism of officiating

Cricket

1. Strategy

2. Set Play

Defensive and offensive field setting

Fielding setting for pace bowling

Fielding setting for in swing

Fielding setting for out swing

Fielding setting for spin bowling

Fielding setting for off spin

Fielding setting for leg spin

- 3. Evaluation of players
- 4. Selection of team
- 5. Mechanism of officiating

Football

- 1. Strategy
- 2. Set plays

Attack

- i. Corner kick
- a) Long and short distance kick
- b) Towards the goal or away (spinning)
- ii. Free kicks (Direct & Indirect kicks)
- a) Changing the point of attack
- b) Lofting the ball over the Wall
- c) Banana kick (swinging)
- d) Direct shot
- iii. Penalty kick
- iv. Throw-in
- a) Long distance throw
- b) Short distance throw
- v. Defensive behaviour at
- a) Corner kick
- b) Free kick
- c) Penalty kick
- (1) Throw- in
- 3. Evaluation of players
- 4. Selection of team
- 5. Mechanism of officiating

Handball

1. Team tactics

Offensive & Defensive

- (a) Fast Break (b) Defensive man to man
- (c) Offensive man to man (d) Individual tactics
- (e) Group tactics (f) Combined defensive
- 2. Strategy
- (a) Players position 6.0, 5-1,4-2, 3-2-1
- (b) Combined defence 5 0+ 1, 4 0+ 2
- 3. System of play
- 4. Evaluation of Players
- 5. Selection off earn

6. Mechanism of officiating

Hockey

1. Strategy

Players position

System of play (5-3-2-1, 4-4-2-1, 3-5-2-1,3-4-3-1, 4-3 -2-1 - 1)

- 2. Set Plays
- A) Penalty comer
- 1) Attacking penalty comer
- 2) Single battery
- 3) Double battery
- B) Long comer
- 1) Comer from right
- 2) Comer from left
- C) Defending long comer
- D) Penalty stroke
- E) Free hit
- 1) in offence
- 2) indefenee
- 3. Evaluation of players
- 4. Selection of team
- 5. Mechanism of officiating

Volleyball

1. Defensive team tactics

Defence formation - defending service - Double triangle formation - circle formation - spokes formation.

The W-M formation Defending spikes - formation without block - scattered formation - semicircular formation - formation with one man block -1 1-4 formation - 1-2-1 -2 formation with 3 man block -3-3 formation -3-1-2 formation.

2. System of defence

Inter change system - Over load system - Rebound system - flying block system - Counter defence system - self defence system - General observation. 3. Strategy

- 4. Set plays
- 5. Evaluation of players
- 6. Selection of team
- 7. Mechanism of officiating

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