



UNIVERSITY OF RAJASTHAN JAIPUR

SYLLABUS

Faculty of Education

M.P.ED. (Two Year)

(Semester Scheme)

A

I & II Semester

2018-2019

III & IV Semester 2019-2020

GUIDELINES OF REGULATIONS AND MODEL SYLLABUS STRUCTURE FOR TWO VEARS M. P. Ed. PROGRAMME (FOUR SEMESTERS)(CBCS)

Important Note:

1 If the University or affiliating pode is todowing choice based credit system 40.80 S₁ as approved and culculated by the UCC, the credit hours given in the tollowing curriculum framework need to be considered along with the hours of teaching mentioned for each paper, a tivity—course.

If the University or affiliating bodies have yet to adopt (BCS, only the hours of reaching mentioned for each paper activity course will be considered, the credit in reaching hours may be ignored

Preamble:

The Master of Physical Education (M.P.Ed.) two years (Four Semesters, Choice Based 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.

R.M.P.Ed.1.Intake, Eligibility and Admission Procedure:

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

R. M.P.Ed. 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.

R. M.P.Ed. 3. The CBCS System:

All programmes shall run on Choice Based Credit System (CBCS) hais an instructional package developed to suit the needs of students to keep pack with the developments in higher education and the quality assurance expected of it in the light of liberalization and globalization in higher education.

R. M.P.Ed. 4. Course:

The term course usually/referred to, as 'papers' is a component of a programme. All courses need not carry the same weight. The courses should define learning objectives and learning outcomes. A course may be designed to comprise Lectures. Lutorials Laboratory

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Work/ Field Work/ Outreach Activities/ Project Work/ Vocational Training/VIVA/ Seminars/

Term Papers/Assignments/Presentations/ Self-Study etc. or a combination of some of these.

R. M.P.Ed.5. Courses of Inc.

The M.P.Ed. programme consists of a number of courses, the term 'Course' applied to indicate a logical part of subject matter of the programme and is invariably equivalent to the subject matter of a "paper" in the conventional sense. The following are the various categories of courses suggested for the M.P.Ed. Programme.

- Theory
 - Core Course
 - Elective Course
- Practicum
 - · Compulsory Course (Track and Field)
 - Elective Course
 - Teaching/Coaching Practices
 - Internship

R. M.P.Ed.6. Semesters:

An academic year is divided into two semesters. Each semester will consist of 17-20 weeks of academic work educatent to 100 actual teaching days. The odd semester may be scheduled from May/June to two performer and even semester from November / December to May/June. The institution shall work for a minimum of 36 working hours in a week (five or six days a week).

R. M.P.Ed.7. Working days:

There shall be at least 200 working days per year exclusive of admission and examination processes etc.

R. M.P.Ed. 8. 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. The total minimum credits, required for completing M.P. Ed. programme is 90 credits and for each semester 20 credits.



Sr. No.	Special Credits forte Extra Co-curricular Activities	Credit
1	Sports Achievement at State level Competition (Medal Winner)	
	Sports Achievement National level Competition (Medal Winner)	2
	Sports participation International level Competition	4
2	Inter Uni. Participation (Any one game)	
3	Inter College Participation (min. two games)	1
4	National Cadet Corps / National Service Scheme	2
5	Blood domain Clandiness drive / Community services /	2
6	Mountaineering - Basic Camp. Advance Camp / Adventure Activities	2
8	News Reporting Article Writing / book writing / progress report writing	l

Students can earn maximum 06 Bonus credits in each semester by his/her participation in the above mentioned activities duly certified by the Head of the institution / Department. This Bonus credit will be used only to compensate loss of credits in academic activities.

R. M.P.Ed. 9. Evaluation:

The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade point. Evaluation for each course shall be done by a continuous internal assessment (CIA) by the concerned course teacher as well as by end semester examination and will be consolidated at the end of course. The components for continuous internal assessment are;

One Test	15 Marks
Assignments / Lati Proctical	19 Marks
Attendance	5 Marks
Total	30 Marks

Attendance shall be taken as a component of continuous assessment, although the students should have minimum 75% attendance in each course. In addition to continuous evaluation component, the end semester examination, which will be written type examination of at least 3 hours duration, would also form an integral component of the evaluation. The ratio of marks to be allotted to continuous internal assessment and to end semester examination is 30:70. The evaluation of practical work, wherever applicable, will also be based on continuous internal assessment and on an end-semester practical examination.



Andread (Alaba annana)	So	emester - I				
Course Code	Title of the Papers	Total Hours	call Cour Credit	Internal Marks	External Marks	Total Marks
		Cone Co	urse			
MPCC- 101	Research Process in Physical Education & Sports Sciences	3	3	30	7()	100
MPCC- 102	Physiology of Exercise.	3	3	30	70	100
MPCC- 103	Yogic Sciences	3	3	30	70	100
	Elect	ive Course	e (Anyon	e)		
MPEC- 101	Tests, Measurement and Evaluation in Physical Education	3	3	30	70	100
MPEC- 102	Sports Technology			·		
	Part	-B Practic	a' Cours	Cillia s		
MPPC- 101	Track and Fire 1. Running Events *2. Gymnastics *3. Swimming. (*Any one)	6	3	30	70	100
MPPC- 102	Laboratory Practical Sports Psychology, Physiology of Exercise, Sports Biomechanics and Kinesiology (Two practicals for each subject)	6	3	30	70	100
MPPC- 103	Yoga *Acrobics/ Self Defence Techniques-Martial Arts, Tack- won-do/ Shooting/ Archery — (*Any One activity + Yoga)	6	3	30	70	100
MPPC,	Adventure Activities/ Mass demonstration Activities-	,6	3	30	70	100

Note: Total number of hours required to each 3 credits for each theory course are 51-60 hours per semester whereas 1921 20 mours for each practicum course.

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demonstration Activities-

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240

560

800

Semester - II

TO SECURE OF THE PARTY OF THE P	Part A: Theoretical Course					
Course Code	Title of the Papers	Total Hours	Credit		External Marks	Total Marks
	<u> </u>	Core Cou	ırse			
MPCC- 201	Applied Statistics in Physical Education & Sports	3	3	30	70	100
MPCC- 202	Sports Biomechanics & Kinesiology	,}	3	30	70	100
MPCC- 203	Athletic Care Little	S	13	3 0	70	100
name a cort on	Elect	tive Course	(Anyon	e)		
MPEC- 201 MPEC- 202	Sports Journalism and Mass Media Sports Management and Curriculum Designs in Physical Education	3	3	30	70	100
	L	t–B Practic	al Cours	e		
MPPC- 201	Track and Field II: Jumping events + Hurdles *Gymnastics/*Swimming (*any one)	6	3	30	70	100
MPPC- 202	Games Specialization- Kabaddi, Kho-Kho, Badminton/ Table Tennis/ Tennis/ Squash/ Baseball/ Volleyball/ Basketball/ Cricket/ football/ Handball/ Hockey/ Netball/ Softball	6	3	30	70	100
	(Any two games)					
MPPC- 203	Teaching Lessons of Indigenous Activities and Sports- 5 Lessons (4 Internal & Lexternal)	6	3	30	70	100
MPPC- 204	Class room Teaching Lessons on theory of different Sports & Games- 5 Lessons (4 Internal & 1 External)	6 -	3	30	70	100
	Total	36	24	240	560	800

Note: Total number of hours required to carn 3 credits for each theory course are 51-60 hours per semester whereas 102-120 hours for each practicum course.

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	Part A	: Theoreti	cal Cours	P	· !	
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
		Core Co	urse			
MPCC- 301	Scientific Principles of Sports Training	3	3	30	70	100
MPCC- 302	Sports Medicine	3	3	30	70	100
MPCC- 303	Health Education and Sports Nutrition	3	3	30	70	100
	Elect	ive Cours	e (Anyon	e)		
MPEC- 301	Sports Engineering	3	3	30	70	100
MPEC- 302	Physical Fitness and Wellness					
14000	Part	-B Practi	cal Cours	e		
MPPC- 301	Throwing Events 15 troduction of leptathlon events 5 troduction of Symnastics/* Swimming (* 1ny One)		3	\$ 0	70	100
MPPC- 302	Games Specialization- III Boxing/ Fencing/ Judo/ Karate/ Wrestling/ Wushu (Any Two)	6	3	30	70	100
MPPC- 303	Coaching Lessons of Track and Field/ Gymnastics/ Swimming - 5 Lessons (4 Internal & I External)	6	3	30	70	100
MPPC- 304	Coaching Lessons of Game Specialization - 5 Lessons (4 Internal & 1 External)	6	3	30	70	100
	Total	36	24	240	560	800

Note: Total number of hours required to earn 5 credits for each theory course are 51-60 hours per semester whereas 102-120 hours for each practicum course.



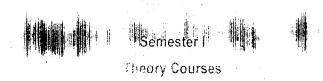


Semester - IV

	Part A	: Theoretic	cal Cour	se ·		- No. Martin American Income of the Control of the
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
	·	Core Cor	irse			
MPCC- 401	Information & Communication Technology (ICT) in Physical Education	3	3	30	70	100
MPCC- 402	Sports Psychology	B	3	30	70	100
MPCC- 403	Dissertation	3	3	30	70	100
	Elec	tive Course	(Anyon	e)		
MPEC- 401 MPEC-	Value and Environmental Education Education Technology in	3	3	30	70	100
402	Physical Education					
		t–B Practic	al Cours	e		
MPPC- 401	Track and Field Introduction of Decathlon event *Gymnastics * Swimming Practical Skill (*any one)	6	3	30	70	100
MPPC- 402	Games Specialization- Practical skills (any two)	6	3	30	70	i 00
MPPC- 403	Officiating Lessons of Track and Field/ Gymnastic/ Swimming 5 Lessons (4) Interest (4) External	6	3	30	70	100
MPPC- 404	Officiating Lessons of Game Specializations - 5 Lessons (4 Internal & 1 External)	6	3	30	70	100
	Total	36	24	240	560	800
		144	96	96()	2240	3200

Note: Total number of hours required to earn 3 credits for each theory course are 51-60 hours per semester whereas 102-120 hours for each practicum course.





MPCC-101 RESEARCH PROCESS IN PHYSICAL EDUCATION AND SPORTS SCIENCES

UNIT I - Introduction

Meaning and Definition of Research – Need, Nature and Scope of research in Physical Education. Classification of Research, Location of Research Problem, Criteria for selection of a problem, Qualities of a good researcher.

UNIT II - Methods of Research

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

UNIT III - Experimental Research

Experimental Research – Meaning, Nature and Importance, Meaning of Variable, Types of Variables. Experimental Design - Single Group Design, Reverse Group Design, Repeated Measure Design, Static Group Comparison Design, Equated Group Design, Factorial Design.

UNIT IV - Sampling

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

UNIT V - Research Propose and Report

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



REFERENCE:

Best J. W (1971) Research in Education, New Jersey; Prentice Hall, Inc Clarke David. H & Clarke H, Harrison (1984) Research processes in Physical Education, New Jersey; Prentice Hall Inc.

Craig Williams and Chris Wragg (2006) Data Analysis and Research for Sport and Exercise Science, Legicon Rutledge Press

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

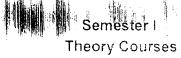
Kamlesh, M. L. (1999) Research Methodology in Physical Education and Sports, New Delhi Moses, A. K. (1995) Thesis Writing Format, Chennai; Poompugar Pathippagam

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

Subramanian, R, Thirumalai Kumar S & Arumugam C (2010) Research Methods in Health, Physical Education and Sports, New Delhi; Friends Publication

Moorthy A. M. Research Processes in Physical Education (2010); Friend Publication, New Delhi





MPCC-102 PHYSIOLOGY OF EXERCISE

UNIT I - Skeletal Muscles and Exercise

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

UNIT II - Cardiovascular System and Exercise

Heart Valves and Direction of the Blood Flow - Conduction System of the Heart - Blood Supply to the Heart - Cardiac Cycle - Stroke Volume - Cardiac Output - Heart Rate - Factors Affecting Heart Rate - Cardiac Hypertrophy - Effect of exercises and training on the search of values and training of the search of values and values of the search of the sea

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, Creatine, Human growth hormone on
sports performance. Narcotic, Stimulants: Caffeine, Ephedrine, Sympathomimetic
amines.

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



REFERENCES:

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

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

Clarke, D.H. (1975). Exercise Physiology. New Jersey: Prentice Hall Inc., Englewood Cliffs.

David, L Costill. (2004). Physiology of Sports and Exercise. Human Kinetics.

Fox, E.L., and Mathews, D.K. (1981). The Physiological Basis of Physical Education and Athletics. Philadelphia: Sanders College Publishing.

Guyton, A.C. (1976). Textbook of Medical Physiology. Philadelphia: W.B. Sanders co.

Richard, W. Bowers. (1989). Sports Physiology. WMC: Brown Publishers.

Sandhya Tiwaji. (1999) (Sandhya Tiwaji. (1999

Shaver, L. (1981). Essentials of Exercise Physiology. New Delhi: Subject Publications.

Vincent, T. Murche. (2007). Elementary Physiology. Hyderabad: Sports Publication.

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

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Semester I Theory Courses

MPCC-103 Yogic Sciences

Unit I - Introduction

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

Unit II - Aasanas and Pranayam

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

Unit III – Kriyas

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

Unit IV - Mudgas

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



Unit V - Yoga and Sports

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

Note: Laboratory Practical's be designed and arranged internally.

REFERENCE:

George Feuerstein, (1975). Text Book of Yoga. London: Motilal Bansaridass Publishers (P) Ltd.

Gore, (1990), Anatomy and Physiology of Yogac Practices. Lonavata: Kanchan Prkashan. Helen Purperhart (2004), The Yoga Adventure for Children. Netherlands: A Hunter House book.

lyengar, B.K.S. (2000), Light on Yoga. New Delhi: Harper Collins Publishers.

Karbelkar N.V.(1993) Patanjal Yogasutra Bhashya (Marathi Edition) Amravati:

Hanuman Vyayam Prasarak Mandal

Kenghe. C.T. (1976). Yoga as Depth-Psychology and para-Psychology (Vol-I): Historical Background, retail as it Bharata Viants had the second of the second o

Kuvalyananada Swami & S.L. Vinekar, (1963), Yogic Therapy – Basic Principles and Methods. New Delhi: Govt. of India. Central Health Education and Bureau.

Moorthy A.M. & Alagesan. S. (2004) Yoga Therapy. Coimbatore: Teachers Publication House.

Swami Kuvalayanda, (1998), Asanas. Lonavala: Kaivalyadhama.

Swami Satyananada Sarasvati. (1989), Asana Pranayama Mudra Bandha. Munger: Bihar School of Yoga.

Swami Satyananda Saraswathi. (1984), Kundalini and Tantra, Bihar: Yoga Publications Trust.

Swami Sivananda, (1971), The Science of Pranayama. Chennai: A Divine Life Society Publication.

Thirumalai Kumar. S and Indira. S (2011) Yoga in Your Life, Chennai: The Parkar Publication.

Tivari O.P. (1998), Asanas W. Mand How Lonavalat Kara yadhan

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(B)

Semester I Theory Courses

MPEC-101

TEST, MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION (Elective)

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 Word Fitness! Test for Motor Fitness Indiana Motor Fitness Test (for elementary and high school boys, girls and College Men) Oregon Motor Fitness Test

(Separately for boys and girls) - JCR test. Motor Ability; Barrow Motor Ability Test - Newton Motor Ability Test - Muscular Fitness - Kraus Weber Minimum Muscular Fitness Test.

UNIT III - Physical Fitness Tests

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

UNIT IV - Anthropometric and Aerobic-AngeroLic Tests

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

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-

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Christian General Soccer Ability Skill Test Battery, Johnson Soccer Test. Mc-Donald volley Soccer Test. Tennis: Dyer Tennis Test.

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

REFERENCES:

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

Collins, R.D., & Hodges P.B. (2001) A Comprehensive Guide to Sports Skills
Tests and Measurement (2nd edition) Lanham: Scarecrow Press

Cureton T.K. (1947) Physical Fitness Appraisal and Guidance, St. Louis: The C. Mosby Company

Getchell B (1979) Physical Fitness A Way of Life, 2nd Edition New York, John Wiley and Sons, Inc

Jenson, Clayne R and Cynt ha, C. Hirst (1980) Measurement in Physical Education and Athletics, New York, Macmillan Publising Co. Inc. Kansal D.K. (1996), "Test and Measurement in Sports and Physical Education, New Delhi: Dys speciations

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

Vivian H. Heyward (2005) Advance Fitness Assessment and Exercise Prescription, 3rd Edition. Dallas TX: The Cooper Institute for Aerobics Research

Wilmore JH and Costill DL. (2005) Physiology of Sport and Exercise: 3rd Edition. Champaigm IL: Human Kinetics

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





Semester II Theory Courses

MPCC-201 APPLIED STATISTICS IN PHYSICAL EDUCATION AND SPORTS

UNIT I - Introduction

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

UNIT II - Data Classification Tabulation and Measures of Central Tendency

Meaning, uses and construction of frequency table. Meaning, Purpose, Calculation and advantages of Measures of central tendency – Mean, median and mode.

UNIT III - Measures of Dispersions and Scales

Meaning, Purpose, Calculation and advances of Range, Quartile, Deviation, Mean Deviation, Standard Deviation, Probable Error standard 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. Formulation of hypothesis – type I and type II error. Graphical Representation in Statistics; Line diagram, Bar diagram, Histogram, Frequency Polygon, Ogive Curve.

UNIT V - Inferential and Gamba ative Statistics

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

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





REFERENCE

Best J. W (1971) Research in Estucation New Dersewer entice Hall, Inc

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

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

Kamlesh, M. L. (1999) Reserach Methodology in Physical Education and Sports, New Delhi Rothstain A (1985) Research Design and Statistics for Physical Education, Englewood Cliffs: Prentice Hall, Inc

Sivaramakrishnan. S. (2006) Statistics for Physical Education, Delhi; Friends Publication Thirumalaisamy (1998), Statistics in Physical Education, Karaikudi, Senthilkumar Publications



Semester II Theory Courses

MPCC-202 SPORTS BIOMECHANICS AND KINSESIOLOGY

UNIT I - Introduction

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

UNIT II – Muscle Action

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

UNIT III - Motion and Force

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

UNIT IV - Projectile and Lever

Freely falling bodies - Projectiles -Equation of projectiles stability Factors influencing equilibrium - Guiding principles for stability -static and dynamic stability. Meaning of work, power, energy, kinetic energy and potential energy. Leverage -classes of lever - practical application. Water resistance - Air resistance -Aerodynamics

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

UNIT V - Movement Analysis

Analysis of Movement; Types of analysis: Kinediclogical, Biomechanical. Cinematographic. Methods of analysis – Gualife live and Quantitative

REFERENCE:

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Deshpande S.H.(2002) Wang Kriya Wang an Kinesiology (Lindi Edition)
Amravati :Hanuman Vyayam Prasarak Mandal.

Hoffman S.J. Introduction to Kinesiology (Human Kinesiology publication In 2005.

Steven Roy, & Richard Irvin. (1983). Sports Medicine. New Jersery: Prentice hall.

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Uppal, A (2004), Kinesiology in Physical Education and Exercise Science, Delhi Friends publications.

Williams M (1982) Biomechanics of Human Motion, Philadelphia; Saunders Co.





Semester II Theory Courses

MPCC-203 ATHLETIC CARE AND REHABILITATION

Unit I - Corrective Physical Education

Definition and objectives of corrective physical Education. Posture and body mechanics, Standards of Standing sitting and lying Posture. Advantages of good posture, Drawbacks and causes of poor posture. Posture tests.

Unit II - Postural deforming

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

Unit III - Rehabilitation Exercises

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

Unit IV - Massage

Brief history of massage – classification and techniques of massage – Points to be considered in giving massage – Physiological, Chemical, Psychological effects of massage – Indication and contra indication of Massage.

Unit V - Sports Injuries, Care and Treatment

Principles pertaining to the prevention of Sports injuries acare and treatment of micro and macro injuries in sports – Principles of apply cold and heat, infrared rays – Ultra sound, Therapy – Short wave distincting, Principles and techniques of Strapping and Bandages.

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





REFERENCES:

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Mc Ooyand Young (1954) Tests and Measurement, New York: Appleton Century.

Naro, C. L. (1967) Manual of Massage and, Movement, London: Febra and Febra Ltd. Rathbome,

J.I. (1965) Corrective Physical education on ondon: W.B. Saunders & Co. Stafford and Kelly, (1968) Preventive and Corrective Physical Education, New York.

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Semester II Theory Courses

MPEC-201 SPORTS JOURNALISM AND MASS MEDIA (Elective)

UNIT I-

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

UNIT II Sports Bulletin

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

UNIT III Mass Media

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

UNIT IV Report Writing on Sports

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

UNIT -V Journalism

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

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





REFERENCE:

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

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

Bhatt S.C. (1993) Broadcast Journalism Basic Principles. New Delhi. Haranand Publication Dhananjay Joshi (2010) Value Education in Global Perspective. New Delhi: Lotus Press. Kannan K (2009) Soft Skills, Madurai: Madurai: Yadava College Publication

Mohit Chakrabarti (2008): Value Education: Changing Perspective, New Delhi: Kanishka Publication,
Padmanabhan. A & Perumal A (2009), Science and Art of Living, Madurai:
Pakavathi Publication
Shiv Khera (2002), You Can Win, New Delhi: Macmillan India Limited.

Varma A.K. (1993) Journalism in India from Earliest Times to the Present Period. Sterling publication Pvt. Ltd.

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

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Semester II Theory Courses

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

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.

UNIT III - Equipments and Public Relation

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

UNIT IV – Curriculum

Meaning and Definition of Curriculum, Factors offeeting curriculum Principles of Curriculum Construction: Students centred, Activity centred, Community centred, Theories of curriculum development, Approaches to Curriculum; Subject centred, Learner centred and Community centred, Curriculum Framework.

UNIT V - Curriculum Sources

Sources of Curriculum materials - text books - Journals - Dictionaries, Encyclopaedias, Magazines, Internet. Curriculum research, Objectives of Curriculum research - Importance of Curriculum research. Methods of evaluation of 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.

Bonnie, L. (1991). The Management of Sports. St. Louis: Mosby Publishing Company, Park House.

Bucher A. Charles, (1993) Management of Physical Education and Sports (10th ed.,) St. Louis: Mobsy Publishing Company.

Carl, E, Willgoose. (1982. Curriculum in Physical Education, London: Prentice Hall. Chakraborthy & Samiran. (1998). Sports Management. New Delhi: Sports Publication.

Charles, A, Bucher & Marchae, Wotee. (1993). Management of Physical Education and Sports. St. Louis: Mosby Publishing Company.

Chelladurai, P. (1999). Human Resources Management in Sports and Recreation. Human Kinetics.

John, E, Nixon & Ann, E, Jewett. (1964). Physical Education Curriculum, New York: The Ronald Press Company.

McKernan, James (2007) Curriculum and Imagination: Process, Theory, Pedagogy and Action Research, U.K. Routledge

NCERT (2000) . National Curriculum Framework for School Education, New Delhi: NCERT.

NCERT (2000) . Mational Curriculum Framework for School Education, New Delhi: NCERT.

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

Williams, J.F. (2003). Principles of Physical Education. Meerut: College Book House.

Yadvnider Singh. Sports Management, New Delhi: Lakshay Publication.

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Semester III Theory Courses

MPCC-301 SCIENTIFIC PRINCIPLES OF SPORTS TRAINING

UNIT I - Introduction

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

UNIT II - Components of Physical Fitness

Strength: Methods to improve Strength: Weight Training, Isometric, Isotonic, Circuit Training.

Speed: Methods to Develop Speed: Repetition Method, Downhill Run,

Plyometiric training. Parachute Running, Wind Sprints,

Endurance, Methods to Improve Endurance: Continuous Method, Interval Method, Repetition Method, Cross Country, Fartlek Training

UNIT III - Flexibility

Flexibility: Methods to Improve the Flexibility- Stretch and Hold Method, Ballistic Method, Special Type Training Training Coordinative abilities Methods to improve Coordinative Flexibilities Sensor Flexibility Coordinative abilities Methods to improve Coordinative Flexibility Sensor Flexibility Coordinative abilities Methods to improve Coordinative Flexibility Sensor Flexibility Coordinative abilities Methods to improve Coordinative Flexibility Sensor Flexibility Coordinative abilities Methods to improve Coordinative Flexibility Sensor Flexibility Coordinative abilities Methods to improve Coordinative Flexibility Sensor Flexibility Coordinative abilities Methods to improve Coordinative Flexibility Sensor Flexibility Sensor Flexibility Sensor Flexibility Flexibility Sensor Flexibil

UNIT IV - Training Plan

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

UNIT V - Preparation an of training schedules

1. Olympic plan

2. Asian game plan for 4 years

3. One year training schedule for University level player of students own field of specialization

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4. Preparation of training programme for school & college level athlete

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REFERENCES:

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

Bunn, J.N. (1998) Scientific Principles of Coaching, New Jersey Engle Wood Cliffs, Prentice Hall Inc.

Cart, E. Klafs &Daniel, D. Arnheim (1999) Modern Principles of Athletic Training St. Louis C. V. 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

Gary, T. Moran (1997) - Class in ning for Sports, Can was Human Kinetics

Hardayal Singh (1991) Science of Sports Training, New Delhi, DVS Publications

Jensen, C.R. & Fisher A.G. (2000) Scientific Basic of Athletic Conditioning, Philadelphia

Ronald, P. Pfeiffer (1998) Concepts of Athletics Training 2nd Edition, London: Jones and Bartlett Publications

Yograj Thani (2003), Sports Training, Delhi: Sports Publications

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Semester III Theory Courses

MPCC-302 SPORTS MEDICINE

UNIT I - Introduction

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

UNIT II - Basic Rehabilitation

Basic Rehabilitation: Strapping/Tapping: !sotonic, Isokinetic, isometric stretching. Definition. Types of stretching, Advantages, dangers of stretching, Manual muscle grading.

UNIT III - Spine Injuries and Exercise

Head, Neck and Spinal injuries: Causes, Prosentational of Spinal anomalies, Flexion, Compression, Hyperextension, Cotation injuries. Spinal range of motion. Free hand exercises, stretching and strengthening exercise for head neck, spine. Supporting the lating techniques and equipment on Head, Neck and Spine injuries.

UNIT IV - Upper Extremity Injuries and Exercise

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

UNIT V - Lower Extremity Injuries and Exercice

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

Practicals: Lab. Practicals and visit to Physiotherapy Centre to observe treatment procedure of sports injuries; data collection of sports injury

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REFERENCES:

Christopher M. Norris. (1993). Sports Injures Diagnosis and Management for Physiotherapists. East Kilbride: Thomson Litho Ltd.

James, A. Gould & George J. Davies. (1985). Physical 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: Khel Shitya Kendra

The Encyclopedia of Sports Medicine. (1998). The Olympic Book of Sports Medicine, Australia: Title Blackwell Scientific publications.

Practical: Anthropometric Measurements



Semester III Theory Courses

MPCC-303 HEALTH EDUCATION AND SPORTS NURTITION

Unit - I Health Education

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

Unit - II Health Problems in India

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

Unit-III - Hygiene and Health

Meaning of Hygiene, Type of Hygiene, dental Hygiene, Effect of Alcohol on Health, Effect of Tobaccook, Falth Languy letterate tent, Management of Hypertension, Management of Obesity, Management of Stress

Unit - IV- Introduction to Sports Nutrition

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

Unit - V Nutrition and Weight Management

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





References:

Bucher, Charles A. "Administration of Health and Physical Education Programme".

Delbert, Oberteuffer, et. al." The School Health Education". Ghosh, B.N. "Treaties of Hygiene and Public Health".

Hanlon, John J. "Principles of Public Health Administration"
2003. Turner, C.E. "The School Health and Health Education".

Moss and et. At. "Health Education" (National Education Association of U.T.A.) Nemir A. 'The School Health Education" (Harber and Brothers, New York). Nutrition Encyclopedia, edited by Delores C.S. James, The Gale Group, Inc.

Boyd-Eaton S. et al (1989) The Stone Age Health Programme: Diet and Exercise as Nature Intended. Angus and Robertson.

Terras S. (1994) Stress, How Your Diet can Help: The Practical Guide to Positive Health Using Diet, Vitamins, Minerals, Herbs and Amino Acids, Thorons.





Semester III Theory Courses

MPEGEN SPORTS ENGINEERING (Elective)

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 - II 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 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, Pavillon, Swimming Pool, Indoor Stadium, Out-door 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, Re-evaluation, 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 &

Business Media, 2009)

Youlin 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 III Theory Courses

MPEC-302 PHYSICAL FITNESS AND WELLNESS (Elective)

Unit I - Introduction

Meaning and Definition" of Physical Fitness, Physical Fitness Concepts and Techniques, Principles of physical fitness, Physiological principles involved in human movement. Components of Physical Fitness.

Leisure time physical activity and identify opportunities in the community to participate in this activity. Current trends in fitness and conditioning, components of total health fitness and the relationship between physical activity and lifelong wellness.

Unit II - Nutrition

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

Unit III - Aerobic Exercise

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

Unit IV - Anaerobic Exercise

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

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Unit V - Flexibility Exercise

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

Reference:

David K. Miller & T. Earl Allen, Fitness, A life time commitment, Surject Publication Delhi 1989.

Dificore Judy, the complete guide to the postnatal fitness, A & C Black Publishers Ltd. 35 Bedford row, London 1998

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

Elizabeth & Ken day, Sports fitness for women, B.T. Batsford Ltd, London, 1986.

mily R. Foster, Karyn Hartiger & Katherine A. Smith, Fitness Fun, Human Kinetics Publishers 2002.

_awrence, Debbie, Exerc se to Music. A & C Black Publishers Ltd. 37, Sohe 3quare, London 1999

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

Semester IV Theory Courses

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

Unit I - Communication & Classroom Interaction

Concept, Elements, Process & Types of Communication
Communication Barriers & Facilitators of
communication

Communication

Communicative skills of English - Listening, Speaking, Reading & Writing Concept & Importance of ICT Need of ICT in Education

ic in Education

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

Challenges in Integrating ICT in Physical Education

Unit II - Fundamentals of Computers

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

Unit III - MS Office Applications

MS Word: Main Features & its Uses in Physical Education

MS Excel: Main Features & its Applications in Physical Education

MS Access: Creating a Database, Creating a Table, Queries,

Forms & Reports on Tables and its Uses in Physical Education

MS Power Point: Preparation of Slides with Multimedia

Effects MS Publisher: Newsletter & Brochure

Unit IV - ICT Integration in Teaching Learning Process

Approaches to Integrating ICT in Teaching Learning Process

Project Based Learning (PBL)

Co-Operative Learning Collaborative Learning

ICT and Constructivism: A Regagogical Dimension



Unit V - E-Learning & Web Based Learning

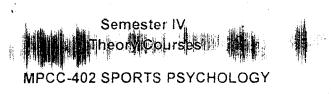
E-Learning
Web Based Learning
Visual Classroom

REFERENCES:

B. Ram, New Age International Publication, Computer Fundamental, Third Edition-2006 Brain under IDG Book. India (p) Ltd Teach Yourself Office 2000, Fourth Edition- 2001 Dougles El Comer, The Internet Book Purdue University, West Lafayette in 2005

Heidi Steel Low price Edition, Microsoft Office Word 2003- 2004
ITL Education Solution Ltd. Introduction to information Technology,
Research and Development Wing-2006
Pradeep K. Sinha & Priti; Sinha, Foundations computing BPB Publications -2006.

Rebecca Bridges Altman Peach pit Press, Power point for window, 1999 Sanjay Saxena, Vikas Publication House, Pvt. Ltd. Microsoft Office for ever one, Second Edition-2006



UNIT I - Introduction

Meaning, Definition, History, Need and Importance of Sports Psychology. Present Status of Sports Psychology in India. Motor Learning: Basic Considerations in Motor Learning

Motor Perception - Factors Affecting Perception - Perceptual Mechanism.
 Personality: Meaning, Definition, Structure - Measuring Personality Traits.
 Effects of Personality on Sports Performance.

UNIT II - Motivation

Meaning and Definition, Types of Motivation: Intrinsic, Extrinsic. Achievement Motivation: Meaning, Measuring of Achievement Motivation. Anxiety: Meaning and Definition, Nature, Causes, Method of Measuring Anxiety. Competitive Anxiety and Sports Performance. Stress: Meaning and Definition, Causes. Stress and Sports Performance. Aggression. Mearing and Definition, Method of Measurement. Aggression of Performance of Meaning and Definition, Method of Meast oment.

UNIT III - Goal Setting

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

UNIT IV - Spectators and performance

Fans and Spectators: Meaning and definition, cifect of Sports spectators on athletic performance.

UNIT V - Group Cohesion

Group: Definition and Meaning, Group Eize, Groups on Composition, Group Cohesion, Group Interaction of Dyna, 163. Suiter Problems in Sports and Future Directions – Sports Social Crisis Management – Women in Sports: Sports Women in our Society, Participation pattern among Women, Gender inequalities in Sports.

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

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REFERENCES:

Authors Guide (2013) National Library of Educational and Psychological Test (NLEPT) Catalogue of Tests, New Delhi: National Council of Educational Research and Training Publication.

Authors Guide (2013) National Library of Educational and Psychological Test (NLEPT) Catalogue of Test New Delhi: National Council of Educational Research and Training Publication.

Jain. (2002), Sports Sociology, Heal Sahety Kendre Publishers.

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

John D Lauther (2000) Psychology of Coaching. Ner Jersy: Prenticce Hall Inc. John D. Lauther (1998) Sports Psychology. Englewood, Prentice Hall Inc.

Miroslaw Vauks & Bryant Cratty (1999). Psychology and the Superior Athlete. London: The Macmillan Co.

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

Robert N. Singer (2001). Motor Learning and Human Performance. New York:

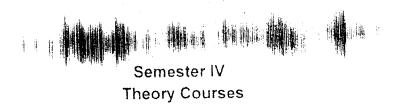
The Macmillan Co.

Robert N. Singer. (1989) The Psychology Domain Movement Behaviour. Philadelphia: Lea and Febiger.

Thelma Horn. (2002). Advances in Sports Psychology. Human Kinetic.

Whiting, K, Karman.,. Hendry L.B & Jones M.G. (1999) Personality and Performance in Physical Education and Sports. London: Hendry Kimpton Publishers.

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MPCC - 403 DISSERTATION

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



Semester IV Theory Courses

MPEC-401 VALUE AND ENVIRONMENTAL EDUCATION

UNIT I - Introduction to Value Education.

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

UNIT II - Value Systems

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

Unit-III - Environmental Education

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

Unit - IV Rural Sanitation and Urban Health

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

Unit - V Natural Resource and related cryston mental sques:

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



REFERENCE:

Miller T.G. Jr., Environmental science (Wadsworth Publishing co.)

Odum, E.P. Fundamentals of Ecology (U.S.A.: W.B. Saunders Co.) 1971.

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

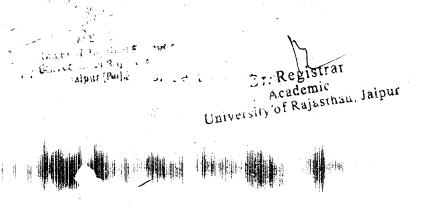
Townsend C. and others, Essentials of Ecology (Black well Science)

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

Jadhay, H. and Bhasale, V.M. Environments! Protestion and Laws (Delhi: Himalaya Pub. House), 1995

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

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







Semester IV Theory Courses

MPEC-402 EDUCATION TECHNOLOGY IN PHYSICAL EDUCATION AND SPORTS

Unit I - Nature and Scope

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

Unit II – Systems Approach to Physical Education and Communication

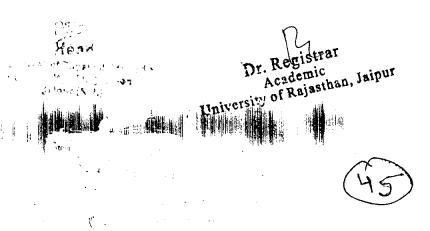
Systems Approach to Education and its Components: Goal Setting, Task Analysis, Content Analysis, Context Analysis and Evaluation Strategies; Instructional Strategies and Media for Instruction. Effectiveness of Communication in instructional system; Communication - Modes, Barriers and Process of Communication.

Unit III- Instructional Design

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

Unit IV - Audio Visual Media in Physical Education

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



(Init V - New Horizons of Educational Technology

Recent innovations in the area of ET interactive video - Hypertext, video-texts, optical fiber technology - laser disk, computer conferencing, etc. Procedure and organization of Teleconferencing/Interactive video-experiences of institutions, schools and universities. Recent experiments in the third world countries and pointers for, India with reference to Physical education. Recent trends of Research in Educational Technology and its future with reference to education.

REFERENCE:

Amita Bhardwaj, New Media of Educational Planning". Sarup of Sons, New Delhi-2003

Bhatia and Bhatia. The Principles and Methods of Teaching (New Delhi : Doaba House),1959. Communication and Education,

D. N. Dasgupta, Pointer Business Education and Control Cation for development, O. P. Dahama, O. P. Bhatnagar, Oxford Page 68 of 71 IBH Publishing company, New Delhi

Essentials of Educational Technology, Madan La!, Anmol Publications K. Sampath, A. Pannirselvam and S. Santhanam, Introduction to Educational Technology (New Delhi: Sterling Publishers Pvt. Ltd.): 1981.

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

Kozman, Cassidy and kJackson. Methods in Physical Education (W.B. Saunders Company,Philadelphia and London), 19.52



