M.P.ED SYLLABUS

CURRICULUM FRAMEWORK: TWO-YEAR M.P.ED. PROGRAMME

Revised Curriculum as per the NCTE New Regulations 2014 for two Year M.P.Ed. Programme as adopted in the Workshop Organised by the Deptt. of Physical Education, Jadavpur University held on 15th to 17th June, 2016 in collaboration with the West Bengal Committee of the Institutes of Physical Education (WBCIPE), West Bengal University of Teachers' Training, Education Planning and Administration (WBUTTEPA) and the Department of Higher education Govt. of West Bengal.

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

Important Note:

- If the University or affiliating body is following choice based credit system, (CBCS) as approved and circulated by the UGC, the credit hours given in the following curriculum framework need to be considered along with the hours of teaching mentioned for each paper/activity / course.
- teaching mentioned for each paper activity or affiliating bodies have yet to adopt CBCS, only the hours of teaching mentioned for each paper activity course will be considered, the credit in teaching 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). 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.

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/ Tutorials/Laboratory



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 Programme:

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 equivalent to 100 actual teaching days. The odd semester may be scheduled from May/June to November/December 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)	1
	Sports Achievement National level Competition (Medal Winner)	2
	Sports participation International level Competition	4
2	Inter Uni. Participation (Any one game)	2
3	Inter College Participation (min. two games)	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
8	News Reporting / Article Writing / book writing / progress report writing	1
9	Educational Excursion	4
10	Annual Camp	4
11	Outreach Activities	4

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 / Lab Practical	10 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.

M.P.Ed. 9 a. Examinations:

- I. There would be automatic progression/promotion at the end of MPED (or equivalent) First Semester/Second Semester/Third Semester irrespective of marks obtained in the previous semester examinations subject to the eligibility conditions.
- II. There shall be examinations at the end of each semester, for first semester in the month of November /December: for second semester in the month of May / June. A candidate who does not pass the examination in any course(s) shall be permitted to appear in such failed course(s) in the subsequent examinations to be held in November /December or May / June.
- III. A candidate should get enrolled /registered for the first semester examination. If enrollment/registration is not possible owing to shortage of attendance beyond condonation limit / rules prescribed OR belated joining OR on medical grounds, such candidates are not permitted to proceed to the next semester. Such candidates shall redo the semester in the subsequent term of that semester as a regular student; however, a student of first semester shall be admitted in the second semester, if he/she has successfully kept the term in first semester.
- IV. A Supplementary Examination for courses/papers in MPED 3rd & 4th semesters shall be held one month after publication of the Final semester result in each year. Only those students who have passed in all papers in the first, second semesters but have failed in any course(s)/paper(s) in the third and fourth semesters shall be entitled to take the Supplementary Examination. This shall count as an additional chance for such students over and above that prescribed in Regulation 10.

M.P.Ed. 9b. Minimum Passing Standard:

The minimum passing standard for CIA (Continuous Internal Assessment) and External Examinations shall be 40%, i.e. 12 marks out of 30 marks and 28 marks out of 70 marks respectively for theory courses. The minimum passing for both CIA & external examination shall be 50%, i.e. 15 marks out of 30 and 35 marks out of 70 marks for the practical courses. Students who having failed to pass in CIA (Continuous Internal Assessment) or External Examinations or both in any semester, has to appear in the subsequent next year Examination.

R. B.P.Ed 10. Grading:

Once the marks of the CIA (Continues 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 R. M.P.Ed. 12 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:

$$1111 = \frac{\sum_{i=1}^{l} 1_{i} 1_{i}}{\sum_{i=1}^{l} 1_{i}}$$

$$1111 = \frac{\sum_{111}^{1} 1111_{1}}{1}$$

Where Ci is the Credit earned for the course is in any semester; Gi is the Grade point obtained by the student for the course and n number of courses obtained in that semester:

is 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.

R. M.P.Ed. 11. Classification of Final Results:

For the purpose of declaring a candidate to have qualified for the Degree of Bachelor 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.

Percentage	Classification of final result	
70 & above	First Class with Distinction	
60-69.99	First Class	
50-59.99	Second Class	
40-49.99	Pass Class	
Below 40	Fail	

R. M.P.Ed.12. 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 pre-determined class intervals. To implement the following grading system, the colleges and universities can use any one of the above methods.

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	Grade	Description	Percentage
85 & above	10.0	0	Outstanding	85 & above
70-84.99	8.49	A+	Excellent	70-84.99
60-69.99	6.99	· A	Very Good	60-69.99
55-59.99	5.99	B+	Good	55-59.99
50-54.99	5.49	В	Above Average	50-54.99
40-49.99	4.99	С	Average	40-49.99
Below 40	0.0	F	Fail/Dropped	Below 40
	0	AB	Absent	

For Practical Papers, there will be no grade as 'C' & Pass Marks is 50%

2.1M.P.Ed.13. Grade Point Calculation

Calculation of Semester Grade Point Average (SGPA) and Credit Grade Point (CGP) and declaration of class for M. P. Ed. Programme.

The credit grade points are to be calculated on the following basis:

$$1111 = \frac{\sum_{111}^{1} 1_{1} 1_{1}}{\sum_{111}^{1} 1_{1}}$$

Example - I

Marks obtained by Student in course MPCC101 = 65/100

Percentage of marks = 65 %

Grade from the conversion table is = A Grade

Point = 6.0 + 5 (0.99/9.99)

 $= 6.0 + 5 \times 0.1$

= 6.0 + 0.5

=6.5

The Course Credits = 03

Credits Grade Point (CGP) = $6.5 \times 03 = 19.5$

The semester grade point average (SGPA) will be calculated as a weighted average of all the grade point of the semester courses. That is Semester grade point average (SGPA) = (sum of grade points of all eight courses of the semester) / total credit of the semester as per example given below:

SEMESTER-1

Courses Code.	Credit	Marks out of 100 (%)	Grade	Grade Point	Credit Grade point
MPCC-101	3	65	Α	6.5	19.5
MPCC-102	3	60	Α	6	18
MPCC-103	3	62	Α	6.2	18.6
MPEC-101/MPEC-102	3	57	B+	5.7	17.1
MPPC-101	3	55	B+	5.5	16.5
MPPC-102	3	72	A+	7.2	21.6
MPPC-103	3	66	A	6.6	19.8
MPPC - 104	3	72	A+	7.2	21.6
	24		!		152.7

Examples: Conversion of marks into grade points

MPCC-101 $65 = 60 + 5 = 6.0 + 5 \times (0.99 / 9.99) = 6.0 + 5 \times 0.1 = 6.0 + 0.5 = 6.5$

MPCC-102 60 = 6.0

MPCC-103 $62 = 60 + 2 = 6.0 + 2 \times (0.99/9.99) = 6.0 + 2 \times 0.1 = 6.0 + 0.2 = 6.2$

MPEC-101/MPEC-102 $57 = 55 + 2 = 5.5 + 2 \times (0.49 / 4.99) = 5.5 + 2 \times 0.1 = 5.5 + 0.2 = 5.7$

MPPC-10155 = 5.5

MPPC-102 $72 = 70 + 2 = 7.0 + 2 \times (1.49 / 14.99) = 7.0 + 2 \times 0.1 = 7.0 + 0.2 = 7.2$

MPPC-103 $66 = 60 + 6 = 6.0 + 6 \times (0.99 / 9.99) = 6.0 + 6 \times 0.1 = 6.0 + 0.6 = 6.6$

MPPC $-10472 = 70 + 2 = 7.0 + 2 \times (1.49/14.99) = 7.0 + 2 \times 0.1 = 7.0 + 0.2 = 7.2$

SEMESTER GRADE POINT AVERAGE (SGPA) = Total Credit Grade Points

= 152.7/24 = 6.3625

SGPA Sem. I = 6.3625

At the end of Semester-1

Total SGPA = 6.3625

Cumulative Grade Point Average (CGPA) = 6.3625/1 = 6.3625

CGPA = 6.66875, Grade = A, Class = First Class

SEMESTER-2

Courses No.	Credit	Marks out of 100 (%)	Grade	Grade Point	Credit Grade point
MPCC-201	3	76	A+	7.6	22.8
MPCC-202	3	64	Α	6.4	19.2
MPCC-203	3	59	B+	5.9	17.7
MPEC-201/MPEC-202	3	80	A+	8	24
MPPC-201	3	49	С	4.9	14.7
MPPC-202	3	64	A	6.4	19.2
MPPC-203	3	55	B+	5.5	16.5
MPPC - 204	3	72	A+	7.2	21.6
	24				155.7

SGPA Sem. II = 6.4875

At the end of Semester-2

Total SGPA for two Semesters = 12.85

Cumulative Grade Point Average (CGPA) = 12.85/2 = 6.425

CGPA = 6.66875, Grade = A, Class = First Class

SEMESTER-3

Courses No.	Credit	Marks out of 100 (%)	Grade	Grade Point	Credit Grade point
MPCC-301	3	64	A	6.4	19.2
MPCC-302	3	64	A	6.4	19.2
MPCC-303	3	59	B+	5.9	17.7
MPEC-301/MPEC-302	3	81	A+	8.1	24.3
MPPC-301	3	49	С	4.9	14.7
MPPC-302	3	64	A	6.4	19.2
MPPC-303	3	68	A	6.8	20.4
MPPC - 304	3	75	A+	7.5	22.5
	24				157.2

SGPA Sem. III = 6.55

At the end of Semester-3

Total SGPA for three Semesters = 19.4

Cumulative Grade Point Average (CGPA) = 19.4/3 = 6.466667

CGPA = 6.66875, Grade = A, Class = First Class

SEMESTER-4

Courses No.	Credit	Marks out of 100	Grade	Grade Point	Credit Grade point
MPCC-401	3	83	A+	8.3	24.9
MPCC-402	3	76	A+	7.6	22.8
MPCC-403	3	59	B+	5.9	17.7
MPEC-401/MPEC-402/MPEC-403	3	81	A+	8.1	24.3
MPPC-401	3	49	C	4.9	14.7
MPPC-402	3	78	A+	7.8	23.4
MPPC-403	3	81	A+	8.1	24.3
MPPC-404	3	75	A+	7.5	22.5
	24				174.6

SGPA Sem. IV = 7.275

At the end of Semester-4

Total SGPA for all the four semesters = 26.675

Cumulative Grade Point Average (CGPA) = 26.675 /4 = 6.66875

CGPA = 6.66875, Grade = A, Class = First Class

Note:

(1) SGPA is calculated only if the candidate passes in all the courses i.e. get minimum C grade in all the courses.

- (2) CGPA is calculated only when the candidate passes in all the courses of all the previous and current semesters.
- (3)The cumulative grade point average will be calculated as the average of the SGPA of all the semesters continuously, as shown above.
- (4) For the award of the class, CGPA shall be calculated on the basis of:
 - (a) Marks of each Semester EndAssessment And
- (b) Marks of each Semester Continuous Internal Assessment for each course. The final Class for M.P.Ed. Degree shall be awarded on the basis of last CGPA (grade) from one to four semester examinations.



R. M.P.Ed.14. Grievance Redressal Committee:

The college/department shall form a Grievance Redressal Committee for each course in each college/department with the course teacher / Principal / Director and the HOD of the faculty as the members. This Committee shall solve all grievances of the students.

R. M.P.Ed.15. Revision of Syllabi:

- 1. Syllabi of every course should be revised according to the NCTE.
- 2. Revised Syllabi of each semester should be implemented in a sequential way.
- 3. In courses, where units / topics related to governmental provisions, regulations or laws, that change to accommodate the latest developments, changes or corrections are to be made consequentially as recommended by the Academic Council.
- 4. All formalities for revisions in the syllabi should be completed before the end of the semester for implementation of the revised syllabi in the next academic year.
- 5. During every revision, up to twenty percent of the syllabi of each course should be changed so as to ensure the appearance of the students who have studied the old (unrevised) syllabi without any difficulties in the examinations of revised syllabi.
- 6. In case, the syllabus of any course is carried forward without any revision, it shall also be counted as revised in the revised syllabi.



Semester - I

	Part A: The	oretical C	Course			V.
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
		Course				
MPCC-101	Research Process in Physical Education & Sports Sciences	3	3	30	70	100
MPCC-102	Physiology of Exercise. SSD (c) Prof. B., AP, Attakbabu SC PB	3	3	30	70	100
MPCC-103	Yogic Sciences CM, Sc	3	3	30	70	100
	Elective Co	urse (Any	one)			
MPEC-101 MPEC-102	Tests, Measurement and Evaluation in Physical Education SSD, AGE Sports Technology	3	3	30	70	100
	Part-B Pra	ectical Co	urse			
MPPC-101	Track and Field (I) : Running Events AG, AK	6	3	30	70	100
MPPC-102	Sports Major – I: Swimming And Gymnastics	6	3	30	70	100
MPPC-103	Karate / Self Defense and Adventure Sports AP AB	6	3	30	70	100
MPPC-104	Class Room Teaching Lessons (4+1) one from each theory subject and one for External	6	3	30	70	100
	Total № Se,	36	24	240	560	800

Semester - II

Course Code	Title of the Papers	Total	Credit	Internal	External	Total
		Hours		Marks	Marks	Marks
	Core (Course				
MPCC-201	Applied Statistics in Physical	3	3	30	70	100
	Education & Sports 16, W					
MPCC-202	Sports Biomechanics &	3	3	30	70	100
	Kinesiology PM M /SC, SSD					
MPCC-203	Athletic Care and	3	3	30	70	100
	Rehabilitation 18, PB					
	Elective Cou	rse (Anyo	one)			
MPEC-201	Sports Journalism and Mass		T	T .	T	
4	Media	3	3	30	70	100
MPEC-202	Sports Management and					
	Curriculum Designs in Physical			-		
	Education AP. RA. nm. SM					
	Part-B Prac	etical Cou	ırse			
MPPC-201	Track & Field – II: Shot put		T	T	T	T
1711 6 201	Discus and Javelin Throws, High,	6	3	30	70	100
	Long and Triple Jump AB, AM, AK	Ü		13		
MPPC-202	Sports Major - II: Basketball and		111	2		
	Cricket MG (Fundamental PB Skills,	6	3	30	70	100
	Individual Tactics, Officiating and		. 1 A		-	
	Lead-up Games)					-
MPPC-203	Yoga: Asanas, Pranayam and	6	3	30	70	100
	Kriyas Sc, BBR, SM					
MPPC-204	Teaching Lessons:		-	25.		
	Sports Major – 4 lessons	6	3	30	70	100
	Track & Field- 4 lessons	27	21	240	F(0	900
	Total	36	24	240	560	800

Semester - III

	Part A: Theo	retical Co	urse			
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
	Core	Course				
MPCC-301	Scientific Principles of Sports Training AG2, SSD	3	3	30	70	100
MPCC-302	Sports Medicine	3	3	30	70	100
MPCC-303	Health Education and Sports Nutrition AP(a), And Sha	3	3	30	70	100
	Elective Cou	rse (Anyo	ne)			
MPEC-301	Sports Engineering And Technology	3	3	30	70	100
MPEC-302	Physical Fitness and Wellness PM, AB					
	Part-B Prac	etical Cou	rse			
MPPC-301	Sports Major – III: Football and One Racket Sports (Fundamental Skills, Individual Tactics, Officiating and Lead-up Games)	6	3	30	70	100
MPPC-302	Sports Major – IV: Volleyball and Handball (Fundamental Skills, 550 Individual Tactics, Officiating and Lead-up Games)	6	3	30	70	100
MPPC-303	Officiating of Track & Fields and Sports Activities – Taught in SEM – I, II, III and TV, AP, AP (Comp.) and	6	3	30	70	100
MPPC-304	Internship on a Team Game*/ Project Work on Practical sw, PB Activities* AB(co), SSD, AP	6	3	30	70	100
I	Total	36	24	240	560	800

Name of guest reaches

Semester - IV

	Part A: Theo	oretical Co	urse	*		
Course Code	Title of the Papers	Total Hours	Credit	Internal Marks	External Marks	Total Marks
	Core	Course		70		
MPCC-401	Information & Communication Technology (ICT) in Physical Education And Sports Darach, Physical	3	3	30	70	100
MPCC-402	Psychology and Sociology of Sports AB, 5M	3	3	30	70	100
MPCC-403	Dissertation SSD, AP		3	30	70	100
	Elective Co	urse (Anyo	one)		J	
MPEC-401 MPEC-402 MPEC-403	Value and Environmental Education Se, Gunt (A) Colored Education Technology in Physical Education and Sports Gender Studies In Physical Education And Sports	3	3	30	70	100
	Part-B Pra	actical Cou	irse			
MPPC-401	Hammer or Pole Vault or Combined Events – Triathlon, Pentathlon, Heptathlon and Decathlon: (Fundamental Skills, Individual Tactics, Officiating)	6	3	30	70	100
MPPC-402	Sports Specialization (One): Among Track & Field, Yoga and Sports Major (Technique of Officiating, Fundamental and Advanced Skill, Tactics, Strategies, Game Practice and Lead-up Games.	6	3	30	70	100
MPPC-403	Coaching Lessons on Sports Specialization SSP Five internal practice lessons and one Final Lesson	6	3	30	70	100
MPPC-404	Lab Practical (25 marks in each subject)(Any Four) Sc A) Physiology of Exercise Sc B) Kinesiology and Sports Biomechanics C) Sports Psychology Schalb D) Measurement & Evaluation in Physical Education AGL, SSD Sports Management AP	6 PB PM	3	Internal assessment		100
		36	24	240	560	800
	Total	144	96	960	2240	3200



Semester-I

Theory Courses

MPCC-101: RESEARCH PROCESS IN PHYSICAL EDUCATION AND SPORTS SCIENCES

UNIT 1 - Introduction to Research

- 1.1 Meaning and Definition of Research.
- 1.2 Need, Nature and Scope of Research in Physical Education & Sports.
 - 1.3 Classification of Research-Basic, Action and Applied Research.
 - 1.4 Location of Research Problem, Criteria for selection of a research problem. Method of collecting data and its salient features.

UNIT 2 - Methods of Research & Experimental Research

- 2.1 Descriptive Methods of Research Survey Study, Case study.
- 2.2 Historical Research Meaning, Sources and criticism of Historical Research: Primary Data and Secondary Data.
- 2.3 Experimental Research: Meaning, Nature and Importance, Steps of Experimental Research. Meaning of Variable, Types of Variables.
 - 2.4 Experimental Design, Meaning & Types.

UNIT 3 - Sampling

- 3.1 Meaning and Definition of Sample and Population, Statistic and parameter.
- 3.2 Sampling and its importance.
- 3.3 Probability Sampling: Random sampling, Systematic Sampling, Cluster sampling, Stratified Sampling. Area & Multistage sampling.
- 3.4 Non- Probability Sampling: Purposive, Judgment, Quota Sampling.

UNIT 4 - Research Proposal and Report

- 4.1 Research Proposal: Meaning, Significance, Method of Writing Research proposal
- 4.2 Hypothesis: Meaning Characteristics, Types, and testing of hypothesis
- 4.3 Method of writing Thesis / Dissertation, Importance of review of related literature.
- 4.4 Research report: Format, writing style, common faults and characteristics of Research report. Style of writing foot notes and bibliography.

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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 1 - Skeletal Muscles and Exercise

- 1.1 Macro & Micro Structure of the Skeletal Muscle, Chemical Composition, Types of Muscle fiber.
- 1.2 Nerve supply to muscle, concept of neuromuscular transmission.
- 1.3 Sliding Filament theory of Muscle Contraction, Chemistry of Muscular Contraction -Heat Production in the Muscle.
- 1.4 Effect of exercises and training on the muscular system.



Q. UNIT 2 – Cardiovascular System and Exercise

- 2.1 Conduction System of the Heart- Blood Supply to the Heart- Stroke Volume- Cardiac Output.
- 2.2 Blood Flow at rest and during exercise hemodynamic principle.
- 2.3 Heart Rate-Factors Affecting Heart Rate- Regulation of Heart rate, Cardiac Hypertrophy.
- 2.4 Effect of exercises and training on the Cardio vascular system. Cardiac diseases and therapeutic exercises.

UNIT 3 - Respiratory System and Exercise

- 3.1 Mechanism of Breathing -Respiratory Muscles, Pulmonary- Ventilation at Rest and During Exercise.
- 3.2 Exchange of Gases in the Lungs -Exchange of Gases in the Tissues- Control of Ventilation-Oxygen Debt/ EPOC.
- 3.3 Vo2 max: concept, determination and its implication in sports performance.
- 3.4 Effect of exercises and training on the respiratory system.

IJNIT 4 – Metabolism and Energy Transfer

- 4.1 Metabolism- ATP-PC or Phosphagen System-Lactic Acid System -Anaerobic Metabolism-Aerobic Metabolism.
- 4.2 Aerobic and Anaerobic Systems during Rest and Exercise.
- 4.3 Energy supply at Short Duration High Intensity Exercises -High Intensity Exercise Lasting Several Minutes- Long Duration Exercises.
- 4.4 Measurement of energy cost of an activity.

UNIT 5 - Climatic conditions and sports performance and ergogenic aids

- 5.1 Variation in Temperature and Humidity-Thermoregulation.
- 5.2 Sports performance in hot climate, Cool Climate, high altitude.
- 5.3 Ergogenic Aid- Androstenedione, Beta Blocker, Choline, Creatine, Human growth hormone on sports performance.
- 5.4 Doping agents: Narcotics, Stimulants, Amphetamines, Caffeine, Ephedrine, Sympathomimetic amines. Stimulants and sports performance.

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

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

MPCC-103: YOGIC SCIENCE

UNIT 1 - Introduction of Yoga

- 1.1. Meaning and Definition of Yoga.
- 1.2.Different schools of yoga.
- 1.3. Yoga: A mind-body medicine.
- 1.4. Yoga: Complementary Alternative Medicine (CAM).

UNIT 2 - Methods of Yoga

- 2.1 Meaning, types and techniques of Kriya.
- 2.2 Meaning, types and techniques of Asana.
- 2.3 Meaning, types and techniques of Pranayama.
- 2.4 Meaning, types and techniques of Meditation.

UNIT 3 – Effects of Yogic Practices

- 3.1 Effects of Kriya on various systems of human body.
- 3.2 Effects of Asana on various systems of human body.
- 3.3 Effects of Pranayama on various systems of human body.
- 3.4 Effects of Meditation on various systems of human body.

UNIT 4 - Applied Aspect of Yoga

- 4.1 Yoga for Health and Wellness
- 4.2 Yoga as therapy
- 4.3 Yoga for Sports Performance
- 4.4 Yoga and Relaxation

- 1. George Feuerstein, (1975). Text Book of Yoga. London: MotilalBansaridassPublishers(P)Ltd.
- 2. Anatomy and Physiology of Yogic Practices. Lonavata: Kanchan Prkashan.
- 3. Helen Purperhart (2004), The Yoga Adventure for Children. Netherlands: A Hunter House book.
- 4. Iyengar, B.K.S. (2000), Lighton Yoga. New Delhi: Harper Collins Publishers.
- 5. Karbelkar N.V. (1993) Patanial Yogasutra Bhashya (Marathi Edition) Amravati: Hanuman Vyayam Prasarak Mandal.
- 6. Kenghe.C.T. (1976). Yogaas Depth-Psychology and para-Psychology (Vol-I): Historical Background, Varanasi: Bharata Manishai.
- 7. Kuvalyananada Swami & S.L. Vinekar, (1963), Yogic Therapy Basic Principles and Methods. NewDelhi: Govt. of India, Central Health Education and Bureau.
- 8. MoorthyA.M. & Alagesan.S. (2004) Yoga Therapy. Coimbatore: Teachers Publication House.
- 9. Swami Kuvalayanda, (1998), Asanas. Lonavala: Kaivalyadhama.
- 10. Swami Satyananada Sarasvati. (1989), Asana Pranayama Mudra Bandha. Munger: Bihar School of Yoga.
- 11. Swami Satyananda Saraswathi. (1984), Kundaliniand Tantra, Bihar: YogaPublicationsTrust.
- 12. Swami Sivananda, (1971), The Science of Pranayama. Chennai: A Divine Life Society Publication.
- 13. Thirumalai Kumar. S and Indira.S (2011) Yogain Your Life, Chennai: The Parkar Publication.
- 14. Tiwari O.P. (1998), Asanas- Why and How. Lonavala: Kaivalyadham.

MPEC-101: TEST, MEASUREMENT AND EVALUATION IN PHYSICAL **EDUCATION** (Elective)

UNIT 1- Introduction

- 1.1. Meaning and Definition of Test, Measurement and Evaluation.
- 1.2. Need and Importance of Measurement and Evaluation, Principles of Evaluation, Criteria of a good Test.
- 1.3. Define Norms. Meaning, Definition and Classification of Validity, Reliability and Objectivity.
- 1.4. Grading in Physical Education: Kinds of Grade, Basis of Grading.

UNIT 2 - Physical Fitness Test and Motor Fitness Tests

- 2.1 Meaning and Definition of Motor Fitness. Test for Motor Fitness: Indiana Motor Fitness Test (For elementary and high school boys, girls and College Men), JCR test, Oregon Motor Fitness Test, Canadian Motor Fitness Test. Muscular Fitness - Kraus Weber Minimum Muscular Fitness Test.
- 2.2 Motor Ability Test: Barrow Motor Ability Test.
- 2.3 Health Related Fitness Test: AAHPERD Health Related Fitness Battery, Rogers's Physical Fitness Index.
- 2.4 Cardiovascular Test: Harvard Step Test, Cooper 12 Minutes Run and Walk Test, Beep Test.

IINIT 3 – Physiological and Anthropometric Test

- 3.1 Aerobic Capacity: The Bruce Treadmill Test Protocol.
- 3.2 Anaerobic Capacity: Margaria- Kalamen Test, Wingate anaerobic test
- 3.3 Method of Measuring Standing Height and Sitting Height. Method of measuring Circumference: Arm, Waist, Hip, Thigh and Skin folds: Biceps, Triceps, Sub scapular, Suprailiac.
- 3.4 Assessment of Body Composition, Measurement of Somatotyping.

UNIT 4 – Skill Tests

- 4.1 Badminton Test: Miller Wall Volley Test. Basketball Test: Johnson Basketball Test, Harrison Basketball Ability Test. Tennis Test: Dyer Tennis Test.
- 4.2 Football Test: Mc-Donald Volley Soccer Test. Volleyball Test: Russel Lange Volleyball Test, Brady Volleyball Test.
- 4.3 Hockey Test: Friendel Field Hockey Test, Harban's Hockey Test.
- 4.4 Psychological test Kinesthetic Perception, Reaction Ability Test, SCAT, Achievement Motivation.

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

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,

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Kansal D.K. (1996), "Test and Measurement in Sports and Physical Education, New Delhi: DVS Publications

(2007) Evaluation in Physical Education and Sports New Delhi: DVS Publications Kansal D.K. (1990), Took and Issued Burner and Sports, New Delhi; DVS Publication Krishnamurthy (2007) Evaluation in Physical Education and Sports, New Delhi; Ajay Verma Publication Krishnamurthy (2007) Evaluation in Assessment and Exercise Prescription, 3rd Edition, Dallas TX: The

MPEC-102 SPORTS TECHNOLOGY (Elective)

UNIT I - Sports Technology

- 1.1 Meaning, definition, purpose, advantages and applications.
- 1.2 General Principles and purpose of instrumentation in sports.
- 1.3 Workflow of instrumentation and business aspects, Technological impacts on sports.
- 1.4 Adhesives- Nano glue, nano moulding technology, Nano turf. Foot wear production, Factors and application in sports, constraints.

UNIT II - Surfaces of Playfields

- 2.1 Modern surfaces for playfields, construction and installation of sports surfaces.
- 2.2 Types of materials synthetic, wood, polyurethane. Artificial turf.
- 2.3 Modern technology in the construction of indoor and outdoor facilities.
- 2.4 Technology in manufacture of modern play equipments.

UNIT III – Modern Equipment

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

UNIT IV – Training Gadgets

- 4.1 Basketball: Ball Feeder, Cricket: Bowling Machine, Tennis: Serving Machine, Volleyball: Serving Machine.
- 4.2 Lighting Facilities: Method of erecting Flood Light and measuring luminous.
- 4.3 Video Coverage: Types, Size, Capacity, Place and Position of Camera in Live coverage of
- 4.4 Use of computer and software in Match Analysis and Coaching.

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.

- 1. Charles J.A. Crane, F.A.A. and Furness, J.A.G. (1987) "Selection of Engineering Materials"
- 2. UK: Butterworth Heiremann. Finn, R.A. and Trojan P.K. (1999) "Engineering Materials and their Applications"UK: Jaico
- 3. Publisher.
- 4. John Mongilo, (2001), "Nano Technology 101 "New York: Green wood publishing group.
- 5. Walia, J.S. Principles and Methods of Education (Paul Publishers, Jullandhar), 1999.
- 6. Kochar, S.K. Methods and Techniques of Teaching (New Delhi, Jullandhar, Sterling
- 7. Publishers Pvt. Ltd.), 1982 2 years M.P.Ed Curriculum | 22
- 8. Kozman, Cassidy and Jackson. Methods in Physical Education (W.B. Saunders Company, Philadelphia and London), 1952.

Semester-II

Theory Courses

MPCC-201: APPLIED STATISTICS IN PHYSICAL EDUCATION AND SPORTS

UNIT 1 - Introduction to Applied Statistics

- 1.1 Meaning, Definition, Function, need and importance of applied Statistics and concept of Bio-statistics.
- 1.2 Meaning of the terms- Population, Sample, Data-types, and Variables-types. Constructions of Frequency table. Graphical representation- Cumulative, Ogive and Percentile, Parametric and Non-Parametric statistics.
- 1.3 Measures of Central Tendency (Mean, median and mode): Meaning, Purpose, Calculation and advantages.
- 1.4 Measures of Variability and its type (Range, Quartile Deviation, Average Deviation, Standard Deviation): Meaning, Purpose, Calculation and advantages of variability.

UNIT 2 - Probability Distributions and Standard Scale

- 2.1 Meaning of probability, Normal curve, Principle of Normal Curve- Properties of normal Curve.
- 2.2 Divergence form normality Skewness and Kurtosis.
- 2.3 Calculation and advantage of Scale: Sigma scale, Z-Scale, Hull Scale and T-scale.
- 2.4 Level of Significance and Degree of Freedom.

UNIT 3 – Comparative Statistics

- 3.1 Correlation: Meaning, Types and Magnitude. Co-efficient of correlation.
- 3.2 Calculation of correlation-Rank difference and Product moment (Grouped data and ungrouped data).
- 3.3 Construction of Norms.
- 3.4 Concept: Regression and Prediction, Biserial, Partial and Multiple Correlation.

UNIT 4 - Inferential Statistics/ Significance of means and other statistic

- 4.1 Standard error, type-I & type II error, one tailed and two tailed test.
- 4.2 Dependent and independence "t"- test with interpretation of the results.
- 4.3 Nonparametric test: Chi Square test.
- 4.4 Concept of ANOVA and ANCOVA.

REFERENCE

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

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

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

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

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

MPCC-202: SPORTS BIOMECHANICS AND KINSESIOLOGY

UNIT 1 - Introduction

- 1.1 Meaning, Nature, Role and Scope of Applied Kinesiology and Sports Biomechanics.
- 1.2 Historical Development of Sports Biomechanics.
- 1.3 Statics, Dynamics: Kinematics, Kinetics. Stability, Equilibrium, Work, Power and Energy.
- 1.4 Centre of gravity -Line of Gravity, Plane and Axis, Vectors and Scalars.

UNIT 2 - Kinesiological Aspects of Human Movement

- 2.1 Concept of Origin, Insertion and Action of muscles.
- 2.2 Origin and Insertion: Muscles of Upper Extremities- Pectoralis Major and Minor, Deltoid, Biceps, Triceps (Anterior and Posterior), Trapezius, Serratus, Abdominis.
- 2.3 Origin and Insertion: Muscles of Lower Extremities- Sartorius, Rectus femoris, Quadriceps, Hamstring, Gastrocnemius.
- 2.4 Action of muscles: Upper and Lower Extremities.

UNIT 3 - Mechanical Concept

- 3.1 Motion & Force: Meaning, Definition and Types.
- 3.2 Lever: Meaning, Definition, Types, Principles and Body Levers.
- 3.3 Projectile: Concept, Types and Factors Influencing Projectile Motion. Equations and Principles of Projectile Motion.
- 3.4 Pressure, Friction & Fluid Resistance: Water Resistance, Air Resistance-Aerodynamics.

UNIT 4 - Movement Analysis

- 4.1 Analysis of Movement: Types of analysis: Kinesiological, Biomechanical. Cinematographic.
- 4.2 Methods of analysis Qualitative, Quantitative, Predictive.
- 4.3 Analysis of Fundamental Movements-Walking & Running.
- 4.4 Analysis of Games and Sports Techniques-Throwing (Putting the shot) & Jumping (Horizontal and Vertical).

Note: Laboratory Practical should be designed and arranged for Students Internally. Biomechanics Practical:

- 1. Determination of Average and Instantaneous Velocity.
- 2. Drawing (S-T) Curve and (V-T) Curve.
- 3. Determination of Co-efficient of Elasticity of Different Balls.
- 4. Determination of Cg by Reaction Board/ Mass Centre method.
- 5. Determination of Work done for a Vertical Jump.
- Scientific Filming of a Movement.
- 7. Drawing a Kinegram of a Movement.
- Analysis of Distance and Time of a Movement.
- Measurement of Angle using Goniometer.
- 10. Measurement of Centrifugal Force.

- 1. Deshpande S.H.(2002). Manav KriyaVigyan Kinesiology (Hindi Edition) Amravati: Hanuman Vyayam Prasarak Mandal.
- 2. Hoffman S.J. Introduction to Kinesiology (Human Kinesiology publication In.2005
- 3. Thomas. (2001). Manual of structural Kinesiology, New York: Me Graw Hill.
- 4. Uppal A.K. Lawrence Mamta MP Kinesiology(Friends Publication India 2004)
- 5. Uppal, A (2004), Kinesiology in Physical Education and Exercise Science, Delhi Friends publications.
- 6. Williams M (1982) Biomechanics of Human Motion, Philadelphia; Saunders Co.
- 7. Hay, J. G. (1970). The biomechanics of sports techniques. Englewood Cliffs, N.J.: PrenticeHall, Inc.
- 8. Simonian, C. (1911). Fundamentals of sport biomechanics. Englewood Cliffs, N.J.: PrenticeHall Inc.
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- 10. Knudson, D. (2007). Fundamentals of Biomechanics. Chico, USA: Springer Publication.

MPCC-203: ATHLETIC CARE AND REHABILITATION

UNIT 1 – Introduction

- 1.1 Meaning, Definition and Importance of Rehabilitation.
- 1.2 Steps of Rehabilitation.
- 1.3 Types of Rehabilitation.
- 1.4 Guiding Principles of Rehabilitation.

UNIT 2 - Basic Rehabilitation

- 2.1 Definition, Principles Precaution, Indication & Contraindication of Strapping/ Tapping.
- 2.2 Objectives and Principles of rehabilitation
- 2.3 Rehabilitation Techniques: Proprioceptive Neuromuscular Facilitation (PNF), Isotonic, Isometric, Isokinetic Stretching.
- 2.4 Rehabilitation exercises: Passive, Active, Assisted and Resisted, Continuous Passive Movement (CPM).

UNIT 3 – Corrective Physical Education

- 3.1 Definition and objective of corrective Physical Education.
- 3.2 Standard of Standing Posture, Value of Good Posture.
- 3.3 Pasture Test: Examination of Spine.
- 3.4 Deviation of Posture: Kyphosis, Lordosis, Flat Back, Scoliosis, Round Shoulder, Knock Knee, Bow Leg, Flat Foot, Symptom, Causes and Treatment with exercises.

UNIT 4 – Therapeutic Modalities

- 4.1 Meaning, Need Importance of Physiotherapy.
- 4.2 Guiding Principles of Therapeutic Modalities.
- 4.3 Different Types of Therapeutic Modalities (Cryotherapy, Superficial thermotherapy, Penetrating thermotherapy, Electrical Stimulation).
- 4.4 Massage: Principles and Classification of massage of massage, Physiological, Chemical and Psychological effects of massage.

REFERENCES:

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

MPEC-201: SPORTS JOURNALISM AND MASS MEDIA (Elective)

UNIT 1 – Introduction

- 1.1 Meaning and Definition of sports Journalism, History, <u>objectives</u> and obligations of sports journalism.
- 1.2 Reporting of Sports Events- Traditional and open source reporting.
- 1.3 Concept of Sports Bulletin: Structure of sports bulletin Compiling a bulletin Types of bulletin.
 - 1.4 Role of Journalism in the Field of Physical Education General news reporting and sports reporting.

UNIT 2 – Mass Media

- 2.1 Concept, Characteristics and function of Mass Media.
- 2.2 Commentary Running commentary on the radio Sports expert's comments.
- 2.3 Role of Advertisement in Journalism.
- 2.4 Sports Photography: Equipment- Editing Publishing.

UNIT 3 – Report Writing on Sports

- 3.1 Brief review of Olympic Games, Asian Games, Commonwealth Games, World Cup, National Games and Indian Traditional Games.
- 3.2 Preparing report of an Annual Sports Meet for Publication in Newspaper.
- 3.3 Methods of editing a Sports report, Critical Appraisal of Reported News.
- 3.4 Sports ethics and sponsorship.

UNIT 4 – Journalism

- 4.1 Sports organization and Sports Journalism.
- 4.2 Organization of Press Meet, Press Release.
- 4.3 Interview with Elite Player and Coach.
- 4.4 Practical assignments to observe the matches and prepare report and news of the same.

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.

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

UNIT 1 - Introduction to Sports Management

- 1.1 Concept of Management and Sports Management-Early and Modern Concept.
- 1.2 Principles and Functions of Sports Management.
- 1.3 Objectives of Personnel Management, Role of Personnel Manager in an organization, Personnel recruitment and selection.
- · 1.4 Programme development, Factors of programme development, Importance and steps in programme development.

UNIT 2 - Sports Sponsorship and Sports Economics

- 2.1 Definition of Sponsorship, Process and Objectives of Sponsorship.
- 2.2 Structure of Sponsorship, Categories of Sponsorship, Role of Intermediaries, Sponsorship
- 2.3 Basic Understanding of Sports Economics, Micro & Macro Economic analysis of Sports.
- 2.4 Basic Understanding of Sports Finance, Preparation of Budget.

UNIT 3 – Competitive Sports and Public Relation

- 3.1 Concept of Competitive Sports, Management Guidelines for School, College and University Sports Program.
- 3.2 Guidelines for Selection of Equipments and Supplies, Guidelines for checking, storing, issuing, care and maintenance of Equipments and Supplies.
- 3.3 Principles of Public relation Programme, Planning the Public Relation Programme.
- 3.4 Public Relation in School and Communities, Public Relation and Media.

UNIT 4 - Curriculum

- 4.1 Meaning and Definition of curriculum.
- 4.2 Principles of Curriculum Construction: Students centered, Activity centered, Community centered.
- 4.3 Theories of Curriculum Development.
- 4.4 Factors affecting Curriculum and 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. 2 years M.P.Ed Curriculum | 27

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.

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

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

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

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

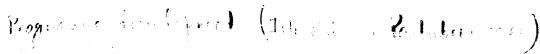
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Semester-III

Theory Courses MECC-301: SCIENTIFIC PRINCIPLES OF SPORTS TRAINING

UNIT 1 – Introduction to Sports Training

- 1.1 Meaning and definition of Sports Training and Sports Coaching.
- 1.2 Aims and characteristics of Sports Training.
- 1.3 Principles of Sports Training.
- 1.4 Philosophy of Sports Training and Coaching.

UNIT 2 - Training Load and Adaptation

- 2.1 Meaning, definition of Training Load and components of Training Load and variation of Load distribution.
- 2.2 Training load and adaptation process. Concept of Super Compensation. Factors affecting recovery
- 2.3 Concept of Overload causes of Overload, symptoms of Overload and remedial measures of
- 2.4 Principles of overload.

UNIT 3 - Components of Motor Fitness and Training Method

- 3.1 Strength: Meaning and Forms of Strength. Factors determining Strength. Methods to improve Strength- Weight Training, Isometric, Isotonic, Circuit Training.
- 3.2 Speed: Meaning and Forms of Speed. Factors determining speed. Methods to improve speed-Repetition method, Downhill Run, Parachute Running, Wind Sprints (In's and Out's method) Pace Runs and Differential Paces.
- 3.3 Endurance: Meaning and forms of Endurance. Factors determining Endurance. Methods to improve Endurance- Continuous method, Interval method, Repetition method, Cross country, Fartlek Training, Altitude Training.
- 3.4 Coordinative Abilities and Flexibility: Meaning and Forms. Factors determining coordinative abilities and flexibility (plyometric Training, Sensory Method, different types of Stretching).

UNIT 4 - Periodization, Planning and Tactical Training

- 4.1 Periodization- Meaning and Types of Periodization. Different phases of Periodization and their
- 4.2 Training plan- Meaning, Principles and types of Training (Micro, Meso and Macro), Short term and Long Term.
- 4.3 Tactical Training- Meaning of Tactics and Strategy. Difference between Tactics and Strategy. Different types of Tactics (Individual and Team Tactics). Training through Competition-Importance of Competition as Method of Training.
- 4.4 Psychological preparation during training phase. Types of doping and their bad effects.

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) - Cross Training for Sports, Canada: Human Kinetics

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

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

MCC-302: SPORTS MEDICINE

UNIT 1 – Introduction

- 1.1 Meaning, definition and importance of Sports medicine.
- 1.2 Historical Development of Sports Medicine as a Discipline.
- 1.3 Sports Medicine as a Profession.
- 1.4 Sports Medicine as an Inter disciplinary Subject: Physiological Psychological and Sociological Aspect.

UNIT 2 - Doping

- 2.1 Drugs in Sports: Use, Misuse and Abuse in Sports.
- 2.2 Doping Agents: Classification, Drugs banned by WADA, Dope Test.
- 2.3 Effects and adverse effects of doping agents.
- 2.4 Guideline of Controlling Doping.

UNIT 3 - Head and Spine Injuries and Management

- 3.1 Head, Neck and Spine Injuries, Causes, symptom, Degrees of Injury.
- 3.2 Prevention of Injuries of Head, Neck and Spine.
- 3.3 Exercises injury management: Flexion, Compression, Hyper extension, Rotation, Spinal range of Motion and Free hand exercises.
- 3.4 Treatment of Injuries of Head, Neck and spine.

UNIT 4 - Upper and Lower Extremity Injuries and Management

- 4.1 Causes and Symptoms of Various Injuries of Upper and Lower extremities.
- 4.2 Prevention of Injuries: Supporting and adding Techniques and Equipment for Lower and Upper extremities.
- 4.3 Exercise for Injuries Management: Breathing Exercises, Relaxation Techniques, Free hand Exercises, Stretching and Strengthening exercise of various parts of upper and Lower extremities.
- 4.4 Treatment of common upper and lower extremity's injuries: Sprain, Strain, Dislocation, Fracture and Contusion.

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: Tittel Blackwell Scientific publications.

Practical: Anthropometric Measurements.



MPCC-303 HEALTH EDUCATION AND SPORTS NUTRITION

UNIT 1 - Health Education

- 1.1 Concept, Dimensions, Spectrum and Determinants of Health.
- 1.2 Definition of Health, Health Education, Objectives and principles of health Education.
- 1.3 Mental Health.
- 1.4 Population Health, Social Health and Occupational Health.

UNIT 2 - Health Problems in India

- 2.1 Hypokinetic Diseases-Obesity, Cardio Vascular Diseases and Diabeties.
- 2.2 Degenerated Diseases- Aging, Arthritis, Spondylosis.
- 2.3 Various health organizations and their Role.
- 2.4 Problems of Healthful School and Community Environment.

UNIT 3 - Health and Hygiene

- 3.1 Meaning and Type of Hygiene.
- 3.2 Effect of Alcohol and tobacco on Health.
 - 3.3 Components of Lifestyle Management.
 - 3.4 Management of Blood Pressure and Stress.

UNIT 4 - Sports Nutrition

- 4.1 Meaning and Definition of Sports Nutrition and its role, Role of Macro and Micronutrition in Exercise.
- 4.2 Concept and pattern of BMI.
- 4.3 Maintenance of Healthy Life style.
- 4.4 Role of Diet and Exercise in Weight Management.

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).

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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.

MPEC-301: SPORTS ENGINEERING AND TECHNOLOGY (Elective)

UNIT 1 – Introduction

- 1.1 Meaning of Sports Engineering.
- 1.2 Human motion detection and recording, human performance assessment.
- 1.3 Equipment and facility designing.
- 1.4 Sports related instrumentation and measurement (Fitness gadgets and Software/ applications).

UNIT 2 - Mechanics of Engineering Materials

- 2.1 Concept of internal force, axial force, shear force, bending movement, torsion, energy expenditure,
- 2.2 Method to find displacement of structure.
- 2.3 Biomechanics of daily and common activities -Gait, Posture, Body levers, Ergonomics.
- 2.4 Mechanical principles in movements such as lifting, walking, running, throwing, jumping, pulling, pushing etc.

UNIT 3- Sports Dynamics

- 3.1 Introduction to Dynamics.
- 3.2 Kinematics of particles rectilinear plane and curvilinear motion Coordinate system.
- 3.3 Kinetics of particles Newton's laws of Motion.
- 3.4 Work, Energy, Impulse and momentum.

UNIT 4 - Infrastructural Development, Maintenance and life cycle costing

- 4.1 Sports Infrastructure: Gymnasium, Pavilion, Swimming Pool, Indoor Stadium, Out-door Stadium, Play Park, Academic Block, Administrative Block, Research Block, Library, Sports Hostel, etc.
- 4.2 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 performed activity, Corridors and Gates for free movement of people, Emergency provisions of lighting, fire and exits, Eco-friendly outer surrounding. Maintenance staff, financial consideration.
- 4.3 Building process and maintenance phase: 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.
- 4.4 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)

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



MPEC-302: PHYSICAL FITNESS AND WELLNESS (Elective)

UNIT 1 - Introduction

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

UNIT 2 - Nutrition and aerobic exercise

- 2.1 Nutrients; Food Choices, Food Guide Pyramid, food sources, Comparison of food values. Weight Management-proper practices to maintain, lose and gain. Eating Disorders, Proper hydration
- 2.2 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.
- 2.3 Assessment of cardio respiratory fitness and set goals to maintain or improve fitness levels.
- 2.4 Cardio respiratory activities including i.e. power walking, pacer test, interval training, incline running, distance running, aerobics and circuits.

UNIT 3 - Anaerobic Exercise

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

UNIT 4 - Flexibility Exercise

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

- 1. David K. Miller & T. Earl Allen, Fitness, A life time commitment, Surject Publication Delhi 1989.
- 2. Dificore Judy, the complete guide to the postnatal fitness, A & C Black Publishers Ltd. 35 Bedford row, London 1998
- 3. Dr. A.K. Uppal, Physical Fitness, Friends Publications (India), 1992.
- 4. Warner W.K. Oeger & Sharon A. Hoeger, Fitness and Wellness, Morton Publishing Company, 1990.
- 5. Elizabeth & Ken day, Sports fitness for women, B.T. Batsford Ltd, London, 1986.
- 6. Emily R. Foster, Karyn Hartiger & Katherine A. Smith, Fitness Fun, Human Kinetics Publishers 2002.
- 7. Lawrence, Debbie, Exercise to Music. A & C Black Publishers Ltd. 37, Sohe Square, London 1999
- 8. Robert Malt. 90 day fitness plan, D.K. publishing, Inc. 95, Madison Avenue, New York 200

Semester-IV

Theory Courses

MPCC-401: ICT IN PHYSICAL EDUCATION AND SPORTS

UNIT 1 - Fundamentals of Computers

- 1.1 Characteristics, Types, Functions, Advantages & Applications of Computers.
- 1.2 Hardware of Computer: Input, Output & Storage Devices.
- 1.3 Software of Computer: Concept & Types application in Physical Education and Sport.
- 1.4 Concepts, Types & Functions of Computer Networks, Internet and its applications, Web Browsers & Search Engines, Legal & Ethical Issues.

UNIT 2- Communication & Classroom Interaction

- 2.1 Concept, Elements, Process & Types of Communication, Communication Barriers & Facilitators of Communication and cloud computing.
- 2.2 Communicative Skills in English Listening, Speaking, Reading & Writing.
- 2.3 Concept & Importance of ICT, Need of ICT in Education, Scope of ICT: Teaching-Learning Process, Publication, Evaluation, Research and Administration.
- 2.4 Challenges in Integrating ICT in Physical Education.

UNIT 3 - MS Office Applications

- 3.1 Word: Main Features & their uses in Physical Education.
- 3.2 Excel: Main Features & their applications in Physical Education.
- 3.3 Access: Creating a Database, Creating a Table, Queries, Forms & Reports on Tables and its Uses in Physical Education.
- 3.4 Power Point: Preparation of Slides with Multimedia Effects, MS Publisher: Newsletter & Brochure.

UNIT 4 - ICT Integration in Teaching Learning Process, E-Learning & Web Based Learning

- 4.1 Approaches to Integrating ICT in Teaching Learning Process.
- 4.2 Project Based Learning (PBL), Co-Operative Learning, Collaborative Learning.
- 4.3 ICT and Constructivism: A Pedagogical Dimension.
- 4.4 E-Learning, Web Based Learning, Visual Classroom.

REFERENCES:

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



MPCC-402: PSYCHOLOGY AND SOCIOLOGY OF SPORTS

UNIT 1 - Introduction

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

UNIT 2 – Psychological Factors Affecting Sports Performance:

- 2.1 Motivation: Meaning, Definition and Types, Motivation and sports performance.
- 2.2 Anxiety and Stress: Meaning, Definition, Nature, Types, Causes and Sports Performance.
- 2.3 Aggression: Meaning and Definition, Aggression and Sports Performance.
- 2.4 Goal Setting- Meaning and Definition, Process of Goal Setting in Physical Education and Sports. Relaxation: Meaning and Definition, types and methods of psychological relaxation.

UNIT 3 - Sports Sociology:

- 3.1 Meaning and definition of Sports Sociology.
- 3.2 Sports as Social Institutions, Sports and Socialization. National Integration through Sports.
- 3.3 Fans and Spectators: Meaning and definition, Effects of Audience on Sports performance. Sports Aggression and Violence. Sports and Politics.
- 3.4 Leadership: Meaning, Definition, types. Leadership and Sports Performance, Leadership Theories.

UNIT 4 – Social Structure of Sports:

- 4.1 Group: Definition, Meaning and Types.
- 4.2 Group Size, Groups on Composition, Group Cohesion, Group Interaction, Group Dynamics.
- 4.3 Sports Social Crisis Management Women in Sports: Sports Women in our Society, Participation pattern among Women, Gender inequalities in Sports.
- 4.4 Socio Economic Status and Sports. Current Problems in Sports and Future Directions.

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

- 1. B. J. Cratty. Psychology of Contemporary sports Champaign: Human Kinetics Publishers,
- 2. John M. Silva & Roberts. Psychological Foundations of Sport. Champaign: Human Kinetics Publishers.
- Diane Gills, Psychological Dynamics of sports, Champaign: Human Kinetics Publishers,
- Cox, Sports Psychology. Champaign: Human Kinetics Publishers.
- 5. Richard M. Sumin, "Psychology in Sports, Methods & Application. New Delhi: SurjectPublication.

MPCC-403 DISSERTATION

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

MPEC-401 VALUE AND ENVIRONMENTAL EDUCATION (Elective)

UNIT 1 - Introduction to Value Education.

- 1.1 Values: Meaning, Definition, Concepts of Values. Value Education: Need, Importance and Objectives.
- 1.2 Moral Values: Need and Theories of Values. Classification of Values: Basic
- 1.3 Values of Religion, Classification of Values.
- 1.4 Meaning and Definition, Personal and Communal Values, Consistency, Internally consistent, internally inconsistent, Judging Value System, Commitment, Commitment to values.

UNIT 2 – Environmental Education

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

UNIT 3 - Rural Sanitation and Urban Health

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

UNIT 4 - Natural Resources and related environmental issues:

- 4.1 Water resources, food resources and Land resources.
- 4.2 Definition, effects and control measures of: Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Thermal Pollution
- 4.3 Management of environment, Sustainable development of environment
- 4.4 Govt. policies and Role of pollution control board.

- 1. Miller T.G. Jr., Environmental Science (Wadsworth Publishing Co.)
- 2. Odum, E.P. Fundamentals of Ecology (U.S.A.: W.B. Saunders Co.) 1971.
- 3. Rao, M.N. & Datta, A.K. Waste Water Treatment (Oxford & IBH Publication Co. Pvt. Ltd.) 1987
- 4. Townsend C. and others, Essentials of Ecology (Black well Science)
- 5. Heywood, V.H. and Watson V.M., Global biodiversity Assessment (U.K.: Cambridge University Press), 1995.
- 6. Jadhav, H. and Bhosale, V.M. Environmental Protection and Laws (Delhi: Himalaya Pub. House), 1995.
- 7. Mc. Kinney, M.L. and Schoel, R.M. Environmental Science System and Solution (Web enhanced Ed.) 1996.
- 8. Miller T.G. Jr., Environmental Science (Wadsworth Publishing Co.)

MPEC-402: EDUCATION TECHNOLOGY IN PHYSICAL EDUCATION **AND SPORTS (Elective)**

UNIT 1 - Nature, Scope and Systems Approach to Physical Education and Communication

- 1.1 Educational technology-concept, Nature and Scope. Forms of educational technology: teaching technology, instructional technology.
- 1.2 Usage of educational technology: integrated, complementary, supplementary stand-alone (independent); programmed learning stage.
- 1.3 Systems Approach to Education and its Components: Goal Setting, Task Analysis, Content Analysis, Context Analysis and Evaluation Strategies; Instructional Strategies and Media for Instruction.
- 1.4 Effectiveness of Communication in instructional system; Communication -Modes, Barriers and Process of Communication.

UNIT 2 – Instructional Design

- 2.1 Instructional Design: Concept, Views.
- 2.2 Process and stages of Development of Instructional Design.
- 2.3 Overview of Models of Instructional Design; Instructional Design for Competency Based
- 2.4 Models for Development of Self Learning Material.

UNIT 3 - Audio Visual Media

- 3.1 Audio-visual media meaning, importance and various forms Audio/Radio: Broadcast and audio recordings.
- 3.2 Script writing, pre-production, post-production process and practices, Audio Conferencing and Interactive Radio Conference.
- 3.3 Video/Educational Television: Telecast and Video recordings Strengths and limitations, Use of Television and CCTV in instruction and Training.
- 3.4 Use of animation films for the development of children's imagination.

UNIT 4 - New Horizons of Educational Technology

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

REFERENCE:

- 1. Amita Bhardwaj, New Media of Educational Planning". Sarup of Sons, New Delhi-2003
- 2. Bhatia and Bhatia, 'The Principles and Methods of Teaching', New Delhi :Doaba House, 1959.
- 3. 'Communication and Education', D. N. Dasgupta, Pointer Publishers
- 'Education and Communication for development', O. P. Dahama, O. P. Bhatnagar, Oxford Page 68 of 71
- 5. 'Essentials of Educational Technology', MadanLal, Anmol Publications
- K. Sampath, A. Pannirselvam and S. Santhanam. 'Introduction to Educational Technology' (New Delhi: 7.

MPEC-403: GENDER STUDIES IN PHYSICAL EDUCATION AND

UNIT 1 - Introduction

- 1.1 Meaning of Gender, Transgender and third Gender,
- 1.2 The role of Physical Education and Sports in addressing Gender issues:
- 1.3 Women's an Girl's health and wellbeing, Self esteem, Self empowerment;
- 1.4 Social inclusion and social integration of Women and Girls.

UNIT 2 - Gender Issues and Curriculum

- 2.1 Gender Identity and Gender Issues in Curriculum and Physical Education
- 2.2 Gender Identities and Socialization Practices in family, schools, other formal and informal institutions,
- 2.3 Physical Education curriculum and the gender question,
- 2.4 Construction of gender in curriculum framework since Independence,

UNIT 3 – Gender Equity

- 3.1 Concept of gender equity, importance, objectives
- 3.2 Attitude of Women toward Physical Education and Sports,
- 3.3 Teacher as an agent of change, Challenging and transforming Gender norms.
- 3.4 Promoting Gender equity through Physical Education and Sports:

UNIT 4 - Application and Research of Gender Studies

- 4.1 Claiming space, access to resources, structures and leadership.
- 4.2 Choice of Sports, Traditional Games and Competitions, Incentives,
- 4.3 Women in sports and media (print and electronic),
- 4.4 Review of researches on Gender studies in Physical Education and Sports.

REFERENCES:

Basu, R. & Chakraborty, B. (2011). Prasanga: Manabividya. Kolkata: Urbi Prakashan.

Bandarage, A. (1997). Women Population and Global Crisis: A Political Economic Analysis. London: Zed

Maguise, P. (1987). Doing Participatory Research: A FeministApproach, Amherst, M.A.

Boserup, E. (1970). Women's Role in Economic Development. New York: St. Martins Press. Brock-Utne, B. (1985). Educating for peace: A Feminist Perspective, New York.

Ruddick, S. (1989). Maternal Thinking: Towards a Politics of Peace, London.

Di Stefano, C. (1983). "Masculinity as ideology in political theory: Hobbesian man considered", Women's Studies

Elshtain, J. B. (1981). Public man, private woman: woman in social and political thought, princeton.

Grant, R. & Newland, K. (Eds.). (1991). Gender and International Relations. London.

Harshman, M. (1995). Women and Development: A Critique. In Marchand, M and Parpart, J. (Eds.). Feminism, Post Modernism, Development. London: Routledge.

Viswanathan, Nalini. (1997). Women, Gender and Development Reader, London: Zed Publication.

Sidhu, L.S. et al (1987). Sports Sciences: Health, Fitness and Performance, Patiala: IASSPE Publication.

Sidhu, L.S. et al (1988). Trends in Sports Sciences: Health, Fitness and Performance, Patiala: IASSPE Publication.

Frederic, D (2010). Strength Training Anatomy, Human Kinetics; 1st edition, www.amazon.com

Chrissie Wellington, (2013). A Life without Limits: A World Champion's Journey, Center Street,

Amazon Publication/www.amazon.com

Practical Courses

Course Code	Subject	CIA	End SEM	Total	Credit
	SEM - I				
MPPC 101	Track & Field I: Sprint, Middle & Long Distance Running, Relay and Hurdles. Developing essential Components like Physical and Motor Fitness, Technical and Tactical aspects.		70	100	3
MPPC 102	Sports Major – I: Swimming And Gymnastics (Fundamental Skills, Individual Tactics, Officiating and Lead-up Games)	30	70	100	3
MPPC 103	Karate / Self Defense and Adventure Sports	30	70	100	3
MPPC 104	Class Room Teaching Lessons (4+1) one from each theory subject and one for External	30	70	100	3
	SEM - II	1			
MPPC 201	Track & Field – II: Shot put Discus and Javelin Throws, High, Long and Triple Jump		70	100	3
MPPC 202	Sports Major – II: Basketball and Cricket (Fundamental Skills, Individual Tactics, Officiating and Lead-up Games)		70	100	3
MPPC 203	Yoga: Asanas, Pranayam and Kriyas		70	100	3
MPPC 204	Teaching Lessons: Sports Major – 4 No and Track & Field- 4 No	30	70	100	3
	SEM - III				
MPPC 301	Sports Major – III: Football and One Racket Sports (Fundamental Skills, Individual Tactics, Officiating and Lead-up Games)	30	70	100	3
MPPC 302	Sports Major – IV: Volleyball and Handball (Fundamental Skills, Individual Tactics, Officiating and Lead-up Games)		70	100	3
MPPC 303	Officiating of Track & Fields and Sports Activities – Taught in SEM – I, II, III and IV	30	70	100	3
MPPC 304	Internship on a Team Game*/ Project Work on Practical Activities*	30	70	100	3
	SEM - IV				
MPPC 401	Hammer throw or Pole Vault or Combined Events – Triathlon, Pentathlon, Heptathlon and Decathlon: (Fundamental Skills, Individual Tactics, Officiating)	30	70	100	3
MPPC 402	Sports Specialization (One): Among Track & Field, Yoga and Sports Major (Technique of Officiating, Fundamental and Advanced Skill, Tactics, Strategies, Game Practice and Lead-up Games.	30	70	100	3
MPPC 403	Coaching Lessons on Sports Specialization Five internal practice lessons and one Final Lesson	30	70	100	3
MPPC 404 I.R., B.P., Time Velenib	Lab Practical (25 marks in each subject)(Any Four) A) Physiology of Exercise B) Kinesiology and Sports Biomechanics C) Sports Psychology D) Measurement & Evaluation in Physical Education E) Sports Management maintenance of grounds, care of equipments, learn the office process.	INTER Assess	ment	100	3

^{*}Preparation and maintenance of grounds, care of equipments, learn the office procedure of organizing Inter College / University / State Level Competition. Assist in regular Teaching / Training Programme and necessary event management.

Table - 1: Semester wise distribution of hours per week

Semester	Theory	Practicum	Teaching practice	Total	
I	12	18	6	36	
II	12	12	12	36	
III	12	12	12	36	
IV	12	12	12	36	
Total	48	54	42	144	

Table - 2: Number of credits per semester

Semester	Theory	Practicum	Teaching practice	Total
I	12	09	03	24
II	12	06	06	24
III	12	06	06	24
IV	12	06	06	24
Total	48	27	21	96

^{*} Course content should be followed as per NCTE regulation-2014