UNIVERSITY OF RAJASTHAN
JAIPUR

SYLLABUS

Faculty of Education

M.P.Ed. (Two Years)

Semester Scheme

I/II Semester Examination 2016-2017

III/IV Semester Examination 2017-2018
GUIDELINES OF REGULATIONS AND MODEL SYLLABUS STRUCTURE
FOR TWO YEAR M. P. Ed. PROGRAMME (FOUR SEMESTERS) (CBCS)

Important Note:
1. If the University, on affiliating such a college, based credit system in the manner as approved and as advised by the UGC, the credit hours given in the following programme framework need to be considered along with the hours of teaching mentioned for each paper or topic course.
2. If the University on affiliating such a college, does not adopt CBCS, only the hours of teaching mentioned for each paper or topic course will be considered. The credit or 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 comprises compulsory and optional theory as well as practice 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 student 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 designed to meet the needs of students to keep pace with the rapid changes in the education sector and to equip students to excel in the age of information 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.
Provision of Bonus Credits: Maximum 06 Credits in each Semester

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Special Credits for Extra Co-curricular Activities</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sports Achievement at State level Competition ( Medal Winner)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Sports Achievement National level Competition ( Medal Winner)</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Sports participation International level Competition</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>Inter Uni. Participation (Any one game)</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>Inter College Participation (min. two games)</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>National Cadet Corps - National Service Scheme</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Blood donation Cleanliness drive Community services</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Mountaineering - Basic Camp, Advance Camp / Adventure Activities</td>
<td>2</td>
</tr>
<tr>
<td>7</td>
<td>News Reporting, Article Writing / book writing / progress report writing</td>
<td>1</td>
</tr>
</tbody>
</table>

Students can earn maximum 06 Bonus credits in each semester by higher 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:

<table>
<thead>
<tr>
<th>One Test</th>
<th>Assignments / Lab Practical</th>
<th>Attendance</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>15 Marks</td>
<td>10 Marks</td>
<td>5 Marks</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 Marks</td>
</tr>
</tbody>
</table>

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.
# Semester - I

## Part A: Theoretical Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of the Papers</th>
<th>Total Hours</th>
<th>Credit</th>
<th>Internal Marks</th>
<th>External Marks</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPCC-101</td>
<td>Research Process in Physical Education &amp; Sports Sciences</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPCC-102</td>
<td>Physiology of Exercise.</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPCC-103</td>
<td>Yogic Sciences</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
</tbody>
</table>

### Elective Course (Anyone)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of the Papers</th>
<th>Total Hours</th>
<th>Credit</th>
<th>Internal Marks</th>
<th>External Marks</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPEC-101</td>
<td>Tests, Measurement and Evaluation in Physical Education</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPEC-102</td>
<td>Sports Technology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Part-B Practical Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of the Papers</th>
<th>Total Hours</th>
<th>Credit</th>
<th>Internal Marks</th>
<th>External Marks</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPPC-101</td>
<td>Track and Field</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>1. Running Events</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*2. Gymnastics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>*3. Swimming</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPC-102</td>
<td>Laboratory Practical</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Sports Psychology, Physiology of Exercise, Sports</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biomechanics and Kinesiology</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Two practicals for each subject)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPC-103</td>
<td>Yoga</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Acrobatics, Self-Defence</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Techniques-Martial Arts, Taekwondo, Shooting, Archery</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(*Any one activity = Yoga)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPC-104</td>
<td>Adventure Activities/ Mass demonstration Activities</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
</tbody>
</table>

| Total       | 36                                                 | 24          | 240    | 560            | 800            |             |

**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.
## Semester: II

### Part A: Theoretical Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of the Papers</th>
<th>Total Hours</th>
<th>Credit</th>
<th>Internal Marks</th>
<th>External Marks</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Course</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPC-201</td>
<td>Applied Statistics in Physical Education &amp; Sports</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC-202</td>
<td>Sports Biomechanics &amp; Kinesiology</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC-203</td>
<td>Athletic Care and Rehabilitation</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td><strong>Elective Course (Anyone)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPEC-201</td>
<td>Sports Journalism and Mass Media</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPEC-202</td>
<td>Sports Management and Curriculum Designs in Physical Education</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td><strong>Part-B Practical Course</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPC-201</td>
<td>Track and Field II:</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC-202</td>
<td>Games Specialization: Kabbadi, Kho-Kho, Badminton, Table Tennis, Tennis, Squash, Baseball, Volleyball, Basketball, Cricket, Football, Handball, Hockey, Netball, Softball (Any two games.)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC-203</td>
<td>Teaching Lessons of Indigenous Activities and Sports- 5 Lessons (4 Internal &amp; 1 External)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC-204</td>
<td>Class room Teaching Lessons on theory of different Sports &amp; Games- 5 Lessons (4 Internal &amp; 1 External)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td>36</td>
<td>24</td>
<td>240</td>
<td>560</td>
<td>800</td>
</tr>
</tbody>
</table>

**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.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of the Papers</th>
<th>Total Hours</th>
<th>Credit</th>
<th>Internal Marks</th>
<th>External Marks</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPCC-301</td>
<td>Scientific Principles of Sports Training</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPCC-302</td>
<td>Sports Medicine</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPCC-303</td>
<td>Health Education and Sports Nutrition</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPEC-301</td>
<td>Sports Engineering</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPEC-302</td>
<td>Physical Fitness and Wellness</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
</tbody>
</table>

**Elective Course (Anyone)**

**Part B Practical Course**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of the Papers</th>
<th>Total Hours</th>
<th>Credit</th>
<th>Internal Marks</th>
<th>External Marks</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPPC-301</td>
<td>Track and Field III: Throwing Events + Introduction of Heptathlon event. &quot;Gymnastics&quot;/&quot;Swimming&quot;/&quot;Any Obey&quot;</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC-302</td>
<td>Games Specialization: Boxing/ Fencing/ Badminton/ Karate/ Wrestling/ Wushu (Any Two)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC-303</td>
<td>Coaching Lessons of Track and Field/ Gymnastics/ Swimming - 5 Lessons (4 Internal &amp; 1 External)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC-304</td>
<td>Coaching Lessons of Game Specialization - 5 Lessons (4 Internal &amp; 1 External)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
</tbody>
</table>

**Total** 36 24 240 560 800

**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.
### Part A: Theoretical Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title of the Papers</th>
<th>Total Hours</th>
<th>Credit</th>
<th>Internal Marks</th>
<th>External Marks</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPCC 401</td>
<td>Information &amp;</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Communication</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td>Technology (ICT) in Physical Education</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>MPCC 402</td>
<td>Sports Psychology</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPCC 403</td>
<td>Dissertation</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPEC 401</td>
<td>Value and Environmental Education</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPEC 402</td>
<td>Education Technology in Physical Education</td>
<td>3</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
</tbody>
</table>

### Part-B Practical Course

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Topic</th>
<th>Total Hours</th>
<th>Credit</th>
<th>Internal Marks</th>
<th>External Marks</th>
<th>Total Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPPC 401</td>
<td>Track and Field Introduction of Decathlon event</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>Gymnastics</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Swimming Practical Skill</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(any one)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MPPC 402</td>
<td>Games Specialization-Practical skills (any two)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC 403</td>
<td>Officiating Lessons of Track and Field/Gymnastics/Swimming - 5 Lessons (4 Internal &amp; 1 External)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
<tr>
<td>MPPC 404</td>
<td>Officiating Lessons of Game Specialization - 5 Lessons (4 Internal &amp; 1 External)</td>
<td>6</td>
<td>3</td>
<td>30</td>
<td>70</td>
<td>100</td>
</tr>
</tbody>
</table>

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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

UNIT IV – Sampling

UNIT V – Research Proposal and Report
REFERENCE:

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


Mooorthy A. M. Research Processes in Physical Education (2010); Friend Publication, New Delhi
UNIT I – Skeletal Muscles and Exercise

UNIT II – Cardiovascular System and Exercise

UNIT III – Respiratory System and Exercise

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

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


Semester I
Theory Courses

MPCC-103 Yogenic Sciences

Unit I – Introduction


Unit II – Aasanas and Pranayams


Unit III – Kriyas


Unit IV – Mudras

Unit V -- Yoga and Sports


Note: Laboratory Practicals be designed and arranged internally.

REFERENCE:


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


UNIT I - Introduction


UNIT II - Motor Fitness Tests

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

UNIT III - Physical Fitness Tests

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

UNIT IV - Anthropometric and Aerobic-Aerobic Tests


UNIT V - Skill Tests

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

REFERENCES:


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


Yobu, A (2010), Test, Measurement and Evaluation in Physical Education in Physical Education and Sports. New Delhi; Friends Publications
MPEC-102 SPORTS TECHNOLOGY (Elective)

Unit I - Sports Technology

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

Unit II - Science of Sports Materials


Unit III - Surfaces of Playfields


Unit IV - Modern equipment


Unit V - Training Gadgets


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


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

MPCC-201 APPLIED STATISTICS IN PHYSICAL EDUCATION AND SPORTS

UNIT I – Introduction


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


UNIT V – Inferential and Comparative Statistics

Tests of significance; Independent “t” test, Dependent “t” test – chi – square test, level of confidence and interpretation of data. Meaning of correlation – 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 theory topics be accompanied with practical, based on computer software of statistics.
REFERENCE

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

Eaglewood Cliffs, Prentice Hall, Inc.

Activities; Illonosis; Human Kinetics;

Kamlesh, M. L. (1999) Reserach Methodology in Physical Education and Sports,
Education, Englewood Cliffs: Prentice Hall, Inc

Publication Thirumalaisamy (1998), Statistics in Physical Education, Karaikudi,
Senthilkumar Publications.
UNIT I - Introduction


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


UNIT IV - Projectile and Lever


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

UNIT V - Movement Analysis

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


Hoffman S.J. Introduction to Kinesiology (Human Kinesiology publication in 2005).


Uppal A.K. Lawrence Mamta MP Kinesiology (Friends Publication India 2004)


Williams M (1982) Biomechanics of Human Motion, Philadelphia; Saunders Co.
Unit I – Corrective Physical Education


Unit II – Postural deformities

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


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:


MPEC-201 SPORTS JOURNALISM AND MASS MEDIA (Elective)

UNIT I

UNIT II Sports Bulletin

UNIT III Mass Media

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

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:


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


Semester II
Theory Courses

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

UNIT I – Introduction to Sports Management


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


UNIT IV – Curriculum


UNIT V – Curriculum Sources

Reference:


MPCC-301 SCIENTIFIC PRINCIPLES OF SPORTS TRAINING

UNIT I – Introduction


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,
Plyometric 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 for Coordinative abilities: Methods to improve Coordinative abilities: Sensory Method, Variation in Movement Execution Method, Variation in External Condition Method, Combination of Movement Method, Types of Stretching Exercises.

UNIT IV – Training Plan


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

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REFERENCES:


David R. Mottramm (1996) Drugs in Sport, School of Pharmacy, Liverpool: John Moore University

Gary, T. Moran (1937) – Cross Training for Sports, Canada: Human Kinetics


Yograj Thani (2003), Sports Training, Delhi: Sports Publications
Semester III
Theory Courses

MPCC-302 SPORTS MEDICINE

UNIT I – Introduction


UNIT II – Basic Rehabilitation


UNIT III – Spine Injuries and Exercise


UNIT IV – Upper Extremity Injuries and Exercise


UNIT V – Lower Extremity Injuries and Exercise

REFERENCES:


Practical: Anthropometric Measurements
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- aid and emergency care etc.

Unit- III – Hygiene and Health

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

Unit – IV- Introduction to Sports Nutrition

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

Unit – V Nutrition and Weight Management

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


Semester III
Theory Courses

MPEC-301 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, Kinematics to particles – rectilinear and plane curvilinear motion coordinate system, Kinetics of particles – Newton’s laws of Motion, Work, Energy, Impulse and momentum.

Unit- IV Building and Maintenance:

Sports Infrastructure- Gymnasium, Pavilion, Swimming Pool, Indoor Stadium, 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.

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Building process: design phase (including brief documentation), construction phase functional (occupational) life, Re-evaluation, refurbish, 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, 1998)
Youlin Hong, Editor Routledge Handbook of Ergonomics in Sport and Exercise (Routledge, 2013)
Eric C. et al., Editor Sports Facility Operations Management (Routledge, 2010)
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 balls, fit balls). Advanced techniques of weight training
Unit V – Flexibility Exercise

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

Reference:


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


Robert Malt. 90 day fitness plan, D.K. publishing, Inc. 95, Madison Avenue, New York 2001
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
Communicative skills of English - Listening, Speaking, Reading & Writing
Concept & Importance of ICT Need of ICT in Education
Scope of ICT: Teaching Learning Process, Publication Evaluation, Research and Administration
Challenges in Integrating ICT in Physical Education

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

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

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


ITL Education Solution Ltd. Introduction to information Technology, Research and Development Wing-2006

Rebecca Bridges Altman Peach pit Press, Power point for window, 1999
UNIT I - Introduction

UNIT II - Motivation

UNIT III - Goal Setting

UNIT IV - Spectators and performance
Fans and Spectators: Meaning and definition, effect of Sports spectators on athletic performance.

UNIT V - Group Cohesion

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


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.

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MPEC-401 VALUE AND ENVIRONMENTAL EDUCATION

UNIT I – Introduction to Value Education


UNIT II – Value Systems

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

UNIT III – Environmental Education

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

Unit - IV Rural Sanitation and Urban Health

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

Unit - V Natural Resources and related environmental issues:

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

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


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


Miller T.G. Jr., Environmental Science (Wadsworth Publishing Co.)
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, supplementary, stand-alone (independent); programmed learning stage; media application stage and computer application stage.

Unit II – Systems Approach to Physical Education and Communication


Unit III- Instructional Design


Unit IV – Audio Visual Media in Physical Education

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,


Essentials of Educational Technology, Madan Lal, Anmol Publications

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