



DEPARTMENT OF PHYSICAL EDUCATION  
GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (C.G.)  
SCHEME OF EXAMINATION M. P. ED. PROGRAMME  
M.P.ED. SEMESTER - I

Paper	Subject	Total Hours	Credit	Internal	External	Total
<b>THEORY (400)</b>						
MPCC-101	Research Process in Physical Education & Sports Sciences	3	3	30	70	100
MPCC-102	Physiology of Exercises	3	3	30	70	100
MPCC-103	Yogic Sciences	3	3	30	70	100
MPEC-101	Tests, Measurement and Evaluation in Physical Education	3	3	30	70	100
MPEC102	OR Sports Technology					
<b>PRACTICAL (400)</b>						
MPPC-101	Track and Field- I	6	3	30	70	100
MPPC-102	Practical Sports Sciences	6	3	30	70	100
MPPC-103	Yoga	6	3	30	70	100
MPPC-104	Mass demonstration Activities	6	3	30	70	100
	<b>TOTAL</b>	<b>36</b>	<b>24</b>	<b>240</b>	<b>560</b>	<b>800</b>

M.P.ED. SEMESTER - II

Paper	Subject	Total Hours	Credit	Internal	External	Total
<b>THEORY (400)</b>						
MPCC-201	Applied Statistics in Physical Education & Sports	3	3	30	70	100
MPCC-202	Sports Biomechanics & Kinesiology	3	3	30	70	100
MPCC-203	Athletic Care and Rehabilitation	3	3	30	70	100
MPEC-201	Sports Journalism and Mass Media	3	3	30	70	100
MPEC-202	OR Sports Management and Curriculum Design in Physical Education					
<b>PRACTICAL (400)</b>						
MPPC-201	Track and Field -II	6	3	30	70	100
MPPC-202	Game Specialization	6	3	30	70	100
MPPC-203	Teaching Lessons of Game Specialization	6	3	30	70	100
MPPC-204	Class room Teaching	6	3	30	70	100
	<b>TOTAL</b>	<b>36</b>	<b>24</b>	<b>240</b>	<b>560</b>	<b>800</b>

विभागाध्यक्ष  
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गुरु घासीदास विश्वविद्यालय

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**M.P.ED. SEMESTER – III**

Paper	Subject	Total Hours	Credit	Internal	External	Total
<b>THEORY (400)</b>						
MPCC-301	Scientific Principles of Sports Training	3	3	30	70	100
MPCC-302	Sports Medicine	3	3	30	70	100
MPCC-303	Health Education and Sports Nutrition	3	3	30	70	100
MPEC-301	Sports Engineering	3	3	30	70	100
MPEC-302	OR Physical Fitness and Wellness					
<b>PRACTICAL (400)</b>						
MPPC-301	Track and Field-III	6	3	30	70	100
MPPC-302	Games Specialization	6	3	30	70	100
MPPC-303	Coaching Lessons of Track & Field	6	3	30	70	100
		6	3	30	70	100
	<b>TOTAL</b>	<b>36</b>	<b>24</b>	<b>240</b>	<b>560</b>	<b>800</b>

**M.P.ED. SEMESTER – IV**

Paper	Subject	Total Hours	Credit	Internal	External	Total
<b>THEORY (400)</b>						
MPCC-401	Information & Communication Technology (ICT) in Physical Education	3	3	30	70	100
MPCC-402	Sports Psychology	3	3	30	70	100
MPCC-403	Journalism and Mass Communication	3	3	30	70	100
MPEC-401/ MPEC -402	Dissertation/ Educational Technology in Physical Education	3	3	30	70	100
<b>PRACTICAL (400)</b>						
MPPC-401	Track and Field-IV Specialization	6	3	30	70	100
MPPC-402	Games Specialization	6	3	30	70	100
MPPC-403	Officiating Lessons of Track and Field	6	3	30	70	100
MPPC-404	Officiating Lessons of Game Specializations	6	3	30	70	100
	<b>TOTAL</b>	<b>36</b>	<b>24</b>	<b>240</b>	<b>560</b>	<b>800</b>
		<b>144</b>	<b>96</b>	<b>960</b>	<b>224</b>	<b>3200</b>

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.

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**SEMESTER –III**

Paper	Subject	Total Hours	Credit	Internal	External	Total
<b>THEORY (400)</b>						
CC-301	Sports Training	4	4	30	70	100
CC-302	Computer Applications in Physical Education	4	4	30	70	100
CC-303	Sports Psychology and Sociology	4	4	30	70	100
EC-301/ EC-302	Sports Medicine, Physiotherapy and Rehabilitation/ Curriculum Design	4	4	30	70	100
<b>PRACTICAL (300)</b>						
PC-301	Track and Field (Throwing Events)	6	4	30	70	100
PC-302	Football	6	4	30	70	100
PC-303	Volleyball	6	4	30	70	100
<b>TEACHING PRACTICE (100)</b>						
TP - 301	Teaching Practice (Teaching Lesson Plans for Racket Sport/ Team Games/Indigenous Sports)	6	4	30	70	100
<b>TOTAL</b>		<b>40</b>	<b>32</b>	<b>240</b>	<b>560</b>	<b>800</b>

Note: B. P. Ed. –III Semester students will undergo the internship programme of 45 days from 15th June to 31st July

**SEMESTER –IV**

Paper	Subject	Total Hours	Credit	Internal	External	Total
<b>THEORY (400)</b>						
CC-401	Measurement and Evaluation in Physical Education	4	4	30	70	100
CC-402	Kinesiology and Biomechanics	4	4	30	70	100
CC-403	Research and Statistics in Physical Education	4	4	30	70	100
EC-401/ EC-402	Theory of sports and Game/ Sports Management	4	4	30	70	100
<b>PRACTICAL (200)</b>						
PC-401	Kho-Kho	6	4	30	70	100
PC-402	Cricket	6	4	30	70	100
<b>TEACHING PRACTICE (200)</b>						
TP - 401	Sports specialization: Coaching lessons Plans (T&F) (Practical 5 lessons)	6	4	30	70	100
TP - 402	Games specialization: Coaching lessons Plans (Theory 5 lessons)	6	4	30	70	100
<b>TOTAL</b>		<b>40</b>	<b>32</b>	<b>240</b>	<b>560</b>	<b>800</b>
		<b>160</b>	<b>128</b>	<b>960</b>	<b>2240</b>	<b>3200</b>

Note: Total Number of hours required to earn 4 credits for each Theory Course are 68-80 hours per semester whereas 102-120 hours for each Practicum Course.

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## Scheme and Syllabus

Syllabus applicable for the students seeking admission to Ph.D.  
Programme in Physical Education in the Academic year 2015-16

### Objectives:

The Ph.D. programme is designed to meet the advanced interest of the students of Physical Education. Its aim is to help students develop the ability to organize ideas and present them coherently in keeping with the norms of scholarly research and writing.

### Duration:

The duration of the programme shall be one semester. This semester shall be devoted to the formal instruction in the classroom / Play fields which is designed strictly as per the norms prescribed under the title "Course Work" in para 13 of part III-Section IV, The Gazette of India, New Delhi, Saturday, July 11- July 17, 2009.

### General Scheme of Examination

Compulsory Course:-

COURSE CODE-502				
Code	Title of Paper	Paper Number	Minimum Passing Marks	Total
BHD502-I	Research Process in Physical Education	I	40	100
PHD502-II	Human Performance in Physical Education	II	40	100
PHD502-III	Statistics and Computer Application in Physical Education	III	40	100

The student shall also present a seminar on his / her research proposal in 3000 words which will carry 100 marks.

### Scheme of marks:

(i) Three written paper of 100 marks each	-300
(ii) Seminar presentation Grand	-100
Grand Total	-400

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MPCC-303	Health Education and Sports Nutrition	3	3	30	70	100
MPEC-301 MPEC-302	Sports Engineering <b>OR</b> Physical Fitness and Wellness	3	3	30	70	100
<b>PRACTICAL (400)</b>						
MPPC-301	Track and Field-III	6	3	30	70	100
MPPC-302	Games Specialization	6	3	30	70	100
MPPC-303	Coaching Lessons of Track & Field	6	3	30	70	100
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<b>THEORY (400)</b>						
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MPCC-402	Sports Psychology	3	3	30	70	100
MPCC-403	Journalism and Mass Communication	3	3	30	70	100
MPEC-401/ MPEC-402	Dissertation/ Educational Technology in Physical Education	3	3	30	70	100
<b>PRACTICAL (400)</b>						
MPPC-401	Track and Field-IV Specialization	6	3	30	70	100
MPPC-402	Games Specialization	6	3	30	70	100
MPPC-403	Officiating Lessons of Track and Field	6	3	30	70	100
MPPC-404	Officiating Lessons of Game Specializations	6	3	30	70	100
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SYLLABUS OF EXAMINATION M. P. ED. PROGRAMME

Semester-I

Theory Courses

MPC-101 RESEARCH PROCESS IN PHYSICAL EDUCATION AND SPORTS  
SCIENCES

**Course Objectives:** The objectives of this course are to expose the students to the range of research methods, to make familiar them with research steps and publication ethics, and provide guidance in the essentials of research report writing by using.

**Course Outcomes:** It is expected that the students will be able to conduct thesis work on any topic, and will also be able to analyse qualitative and quantitative data, to write research proposal and report. At the end of the course, the students will be able to:

1. To define research and describe the needs, nature and classify of research process and research methods.
2. To understand the research context within the area of physical Education and sports.
3. To understand the processes and requirements for conducting successful research in physical education and sports.
4. Understand and apply basic research methods.
5. Students use print and electronic library resources effectively and appropriately.
6. To understand the process of sampling, the uses of questionnaires as data-gathering instruments, how a survey is carried out in terms of process and method, the uses of surveys and to be able to capture their own data.
7. Understand and apply basic research methods including research design, data analysis, and interpretation.
8. Students develop testable hypotheses, differentiate research design, evaluate aptness of research conclusions, and generalize them appropriately.
9. Students design and conduct quantitative or qualitative research studies in laboratory or field settings.
10. Students use research data to formulate or evaluate new research questions, using reason and persuasion in a logical argument.
11. To know how to apply the basic aspects of the research process in order to plan and execute a research proposal and research report.
12. To be able to present, review and publish scientific articles.

**UNIT I – Introduction of Educational Research**

Meaning and Definition of Research  
Nature and Characteristics of Research  
Needs of Research in Physical Education  
Unscientific Versus Scientific Methods of Problem Solving  
Classification of Research – Basic and Applied

**UNIT II – Methods of Research**

Types of Research (Meaning, Definition and Purposes)  
Analytical Research - Historical Research, Philosophical Research  
Descriptive Research -Survey Research , Tools of Survey Research (Questionnaire Method and Interview Method) ,Questionnaire Construction and Development, Case Study, Developmental Research, Normative Survey & Factors affecting it.  
Experimental Research and Designs  
Qualitative Research



### UNIT III – Developing the Research Problem

Identifying the Research Problem -Locating the Research Problem,  
Criteria in Selecting the Research Problem  
Meaning, Types and Formulation of Research Hypothesis  
Limitations and Delimitations  
Needs of Significance of the Study  
Survey of Related literature (Need, Purpose and its types)  
Sampling and its types- Probability and Non- Probability Sampling Techniques

### UNIT IV – Ethical Issues in Research and Scholarship

Areas of Scientific Dishonesty  
Ethical issues regarding copyright  
Working with faculty  
Protecting Human Participants

### UNIT V – Research Proposal and Report

Basic writing Guidelines  
Thesis and Dissertation format  
Method of Writing Research proposal  
Mechanics of writing Research Report  
Method of writing abstract and full paper  
Making Oral and Poster Presentations

#### REFERENCE :

Best J. W (1971) Research in Education, New Jersey; Prentice Hall, Inc  
Clarke David. H & Clarke H. Harrison (1984) Research processes in Physical Education, New Jersey; Prentice Hall Inc.  
Craig Williams and Chris Wragg (2006) Data Analysis and Research for Sport and Exercise Science, London/Routledge Press  
Jerry R Thomas & Jack K Nelson (2000) Research Methods in Physical Activities; Illinois; Human Kinetics;  
Kamlesh, M. L. (1999) Research Methodology in Physical Education and Sports, New Delhi Moses, A. K. (1995) Thesis Writing Format, Chennai; PoompugarPathippagam  
Rothstein, A (1985) Research Design and Statistics for Physical Education, Englewood Cliffs; Prentice Hall, Inc  
Subramanian, R, Thirumalai Kumar S & Arumugam C (2010) Research Methods in Health, Physical Education and Sports, New Delhi; Friends Publication  
Moorthy A. M. Research Processes in Physical Education (2010); Friend Publication, New Delhi.





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SYLLABUS OF EXAMINATION M. P. ED. PROGRAMME  
Semester-I  
MPCC-102 PHYSIOLOGY OF EXERCISES

**Course Objectives:** The objective of this course is that the student gets a clear understanding of physiological concepts & principles of various systems functioning in the body. Also, the student will gain the proficiency in performing laboratory techniques and subsequent analysis of data commonly used in Human Performance Laboratory. This course will also provide the students knowledge of and show ability to carry out the research process in a collaborative environment.

**Course Outcomes:** At the end of the course, students will be able to:

1. Explain the structure and function of skeletal muscle & nervous system and is influenced by exercise training. Discuss the function of the nervous system in neural control of human movement.
2. Discuss the structure of the respiratory system and it responds to exercise of different intensities.
3. Understand how the cardio respiratory system functions and is influenced by exercise training.
4. Explain the structure and function of respiratory system. And its effect of exercise on respiratory system.
5. Understanding the 3 energy systems and how our body converts food to energy.
6. Describe some of the chronic physiological changes in response to climatic conditions and sports performance.

**NOTE:** - This paper shall consist of five units. Each student is required to attempt five questions. Questions shall be asked from each unit. Each unit carries 20 marks.

**UNIT I – Skeletal Muscles and Neuro-muscular concepts.**

Macro & Micro structure of the skeletal muscle.  
Chemical composition of skeletal muscle.  
Sliding Filament Theory of Muscular contraction.  
Effect of exercises and training on the muscular system.  
Transmission of nerve impulses across neuron.  
Transmission of impulse across synapse.  
Neuro-muscular junction and transmission of nerve impulse across it.  
Proprioception and kinaesthesia: Muscle Tone, Posture and Equilibrium

**UNIT II – Cardiovascular System and Exercise.**

Conduction System of the Heart - Cardiac Cycle, Stroke Volume, Cardiac Output. Cardiovascular System: Effect of exercise and training on the Cardio vascular system. Regulation of blood flow during rest and exercise.

**UNIT III – Respiratory System and Exercise.**

Mechanics of Breathing –Minute ventilation, Ventilation at Rest and During Exercise.  
Exchange of gases in lungs and tissues. Anaerobic Threshold, Oxygen Debt.  
Effect of exercises and training on the respiratory system.



#### UNIT IV - Metabolism and Energy Transfer

Metabolism – ATP-PC or Phosphagen System, Anaerobic Metabolism, Aerobic Metabolism.  
Aerobic and Anaerobic Systems during Rest and Exercise.  
EPOC, Lactacid and Alactacid component.  
Short duration high intensity exercises and Long duration exercises.

#### UNIT V - Climatic conditions and sports performance, ageing.

Variation in Temperature – Concept of thermoregulation in relation to sports performance in hot climate, Cool Climate, high altitude.  
Physiological aspects of ageing. Delayed ageing.  
Women and sports.

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

#### REFERENCES:

- Amrit Kumar, R, Moses. (1995). Introduction to Exercise Physiology. Madras: Poompugar Pathipagam.
- BeotraAlka, (2000) Drug Education Handbook on Drug Abuse in Sports: Sports Authority of India Delhi.
- Clarke, D.H. (1975). Exercise Physiology. New Jersey: Prentice Hall Inc., Englewood Cliffs.
- David, L Costill. (2004). Physiology of Sports and Exercise. Human Kinetics.
- Fox, E.L., and Mathews, D.K. (1981). The Physiological Basis of Physical Education and Athletics. Philadelphia: Sanders College Publishing.
- Guyton, A.C. (1976). Textbook of Medical Physiology. Philadelphia: W.B. Sanders co.
- Richard, W. Bowers. (1989). Sports Physiology. WMC: Brown Publishers.
- SandhyaTiwari. (1999). Exercise Physiology. Sports Publishers.
- Shaver, L. (1981). Essentials of Exercise Physiology. New Delhi: Subject Publications.
- Vincent, T. Murche. (2007). Elementary Physiology. Hyderabad: Sports Publication.



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SYLLABUS OF EXAMINATION M. P. ED. PROGRAMME  
Semester-I  
MPCC-103 Yogic Sciences

**Course Objectives:** The objective of this course is that the student gets a clear understanding of Yoga, concept of Yogic Practices and Role of Yoga in Psychological Preparation of athlete.

**Course Outcomes:** On completion of the course the student shall understand the following concepts:

1. Yoga and its technique
2. Method of teaching Pranayama and Kriyas
3. Procedure of doing Mudras and Meditation
4. Relationship of yoga and physical activities

**Unit I – Introduction**

Meaning and Definition of Yoga. Astanga Yoga: Yama, Niyama, Asana, Pranayama, Prathyahara, Dharana, Dhyana, Samadhi, Concept of Yogic Practices; Principles of Breathing – Awareness – Relaxation, Sequence – Counter pose – Time – Place – Clothes – Bathing – Diet – Age – Sunbathing.

**Unit II – Asanas and Pranayam**

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

**Unit III – Kriyas**

Shat Kriyas- Meaning, Techniques and Benefits of Neti – Dhauti – Kapalabhati- Trataka – Nauli – Basti, Bandhas: Meaning, Techniques and Benefits of JalendraBandha, JihvaBandha, UddiyanaBandha, MulaBandha.

**Unit IV – Mudras**

Meaning, Techniques and Benefits of Gyan Mudra, Shounya Mudra, Apan Mudra, Prana Mudra, Vayu Mudra, Pritibhi Mudra, Varun Mudra, Surya Mudra, Ling Mudra: Meaning, Techniques and Benefits of Meditation.

**Unit V – Yoga and Sports**

Yoga Supplemental Exercise – Role of Yoga in Psychological Preparation of Athlete: Mental Wellbeing, Anxiety, Depression Concentration, Self Actualization. Effect of Yoga on Physiological System: Circulatory, Skeletal, Digestive, Nervous, Respiratory, Excretory System.

*Note: Practicals may be designed and arranged internally.*

**REFERENCE:**

- George Feuerstein, (1975). Text Book of Yoga. London: MotilalBansaridass Publishers (P) Ltd.  
Gore, (1990). Anatomy and Physiology of Yoga Practices. Lonavata: KanchamPrakashan.  
Helen Purperhart (2004), The Yoga Adventure for Children. Netherlands: A Hunter House book.  
Iyengar. B.K.S. (2000). Light on Yoga. New Delhi: Harper Collins Publishers.  
Karbelkar N.V. (1993) PatanjaliYogasutraBhasiya (Marathi Edition) Amravati: Hanuman VyayanPrasarakMandal  
Kenghe.C.T. (1976). Yoga as Depth-Psychology and para-Psychology (Vol-I): Historical Background, Varanasi: BharataManishai.  
Kuvayyanmada Swami & S.L. Vinekar, (1963). Yogic Therapy – Basic Principles and Methods. New Delhi: Govt. of India, Central Health Education and Bureau.  
Moorthy A.M. & Alagesan. S. (2004) Yoga Therapy. Coimbatore: Teachers Publication House.

  
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Swami Kivalayanda, (1998), Asanas. Lonavala: Kaivalyadhama.  
Swami SatyananadaSarasvati. (1989), Asana Pranayama Mudra Bandha.Munger: Bihar School of Yoga.  
Swami SatyanandaSaraswathi. (1984), Kundalini and Tantra, Bihar: Yoga Publications Trust.  
Swami Sivananda, (1971), The Science of Pranayama. Chennai: A Divine Life Society Publication.  
Thirumalai Kumar. S and Indira. S (2011) Yoga in Your Life. Chennai: The ParkarPublication.  
Tiwari O.P. (1998), Asanas-Why and How.Lonavala: Kaivalyadhama.



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Semester-I

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

**Course Objectives:** Objective of the course enable students to understand the meaning, nature, need and scope of the testing procedure to find the performance of the sports persons.

**Course Outcomes:** At the end of the course, students will be able to:

1. Identify the values of test and measurement with application backup.
2. Practice Criteria of test with the norms of validity, reliability and objectivity.
3. Plan Physical fitness measurements for developing speed, endurance, strength and Flexibility.
4. Argue some of the standardized test was learned such as Kraus welder test, Cooper 12 Minute's test which may enable them to administer test.
5. Design the physical education test programme in comparison with different sports and games.

**UNIT I – Introduction**

Meaning and Definition of Test, Measurement and Evaluation. Need and Importance of Measurement and Evaluation. Criteria for Test Selection – Scientific Authenticity. Meaning, definition and establishing Validity, Reliability, Objectivity. Norms – Administrative Considerations.

**UNIT II – Motor Fitness Tests**

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

**UNIT III – Physical Fitness Tests**

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

**UNIT IV – Anthropometric and Aerobic-Anaerobic Tests**

**Physiological Testing:** Aerobic Capacity: The Bruce Treadmill Test Protocol, 1.5 Mile Run test for college age males and females. **Anaerobic Capacity:** Margaria-Kalamen test, Wingate Anaerobic Test, **Anthropometric Measurements:** Method of Measuring Height: Standing Height, Sitting Height. Method of measuring Circumference: Arm, Waist, Hip, Thigh.

**UNIT V – Skill Tests**

Specific Sports Skill Test: Badminton: Miller Wall Volley Test. Basketball: Johnson Basketball Test. Hockey: Harban's Hockey Test, Volleyball: Russel Lange Volleyball Test, Brady Volleyball Test. Football: Johnson Soccer Test, Mc-Donald Soccer Test. Tennis: Dyer Tennis Test.

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

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Collins, R.D., & Hodges P.B. (2001) A Comprehensive Guide to Sports Skills Tests and Measurement (2nd edition)  
Lanham: Scarecrow Press  
Cureton T.K. (1947) Physical Fitness Appraisal and Guidance. St. Louis: The C. Mosby Company

  
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Getchell B (1979) Physical Fitness A Way of Life, 2nd Edition New York, John Wiley and Sons, Inc  
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Kansal D.K. (1996), "Test and Measurement in Sports and Physical Education, New Delhi: DVS Publications  
Krishnamurthy (2007) Evaluation in Physical Education and Sports, New Delhi: Ajay Verma Publication  
Vivian H. Heyward (2005) Advance Fitness Assessment and Exercise Prescription, 3<sup>rd</sup> Edition, Dallas TX: The Cooper Institute for Aerobics Research  
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SYLLABUS OF EXAMINATION M. P. ED. PROGRAMME

Semester-I

MPEC-102 SPORTS TECHNOLOGY (Elective)

**Course Objectives:** Objective of the course enable students to understand the meaning, nature, need and purpose of the sports technology, science of sports materials.

**Course Outcomes:** On completion of the course the student shall understand the following concepts:

1. Meaning, definition, purpose, advantages and applications Sports Technology.
2. Knowledge of various surfaces of playfields
3. Knowledge of latest equipment's in the sports field.
4. Knowledge of various types of sports playfield.

**Unit I – Sports Technology**

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

**Unit II – Science of Sports Materials**

Adhesives- Nano glue, nano moulding technology, Nano turf. Foot wear production, Factors and application in sports, constraints. Foams- Polyurethane, Polystyrene, Styrofoam, closedcell and open-cell foams, Neoprene, Foam. Smart Materials – Shape Memory Alloy (SMA), Thermo chromic film, High-density modelling foam.

**Unit III – Surfaces of Playfields**

Modern surfaces for playfields, construction and installation of sports surfaces. Types of materials – synthetic, wood, polyurethane. Artificial turf. Modern technology in the construction of indoor and outdoor facilities. Technology in manufacture of modern play equipments. Use of computer and software in Match Analysis and Coaching.

**Unit IV – Modern equipment**

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

**Unit V – Training Gadgets**

Basketball: Ball Feeder, Mechanism and Advantages. Cricket: Bowling Machine, Mechanism and Advantages, Tennis: Serving Machine, Mechanism and Advantages, Volleyball: Serving Machine Mechanism and Advantages. Lighting Facilities: Method of erecting Flood Light and measuring luminous. Video Coverage: Types, Size, Capacity, Place and Position of Camera in Live coverage of sporting events.

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

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- Charles J.A. Crane, F.A.A. and Furness, J.A.G. (1987) "Selection of Engineering Materials" UK: Butterworth Heiremann.
- Finn, R.A. and Trojan P.K. (1999) "Engineering Materials and their Applications" UK: Jaico Publisher.
- John Mongilo, (2001), "Nano Technology 101" New York: Green wood publishing group.
- Walia, J.S. Principles and Methods of Education (Paul Publishers, Jullandhar), 1999.



Kochar, S.K. Methods and Techniques of Teaching (New Delhi, Jullandhar, Sterling Publishers Pvt. Ltd.), 1982  
Kozman, Cassidy and Jackson. Methods in Physical Education (W.B. Saunders Company, Philadelphia and London), 1952.





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Semester- II  
Theory Courses

MPCC-201 APPLIED STATISTICS IN PHYSICAL EDUCATION AND SPORTS

**Course Objectives:** The objectives of this course are to expose the students to the brief range of statistical knowledge, to make familiar them with basics of statistical analysis, and provide guidance in the essentials of statistical models by using.

**Course Outcomes:** - On completion of the course the student shall understand the following concepts:

1. Need for statistics in physical education and research
2. Measures of Central Tendency and dispersion and their uses
3. Meaning and importance of graphical representation of data
4. Knowledge of Inferential and Comparative Statistics
5. Application of various statistical techniques

**UNIT I – Introduction**

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

**UNIT II – Data Classification, Tabulation and Measures of Central Tendency**

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

**UNIT III – Measures of Dispersions and Scales**

Meaning, Purpose, Calculation and advances of Range, Quartile, Deviation, Mean Deviation, Standard Deviation, Probable Error. Meaning and purpose of scoring scales; Sigma scale, Z Scale, Hull scale

**UNIT IV – Probability Distributions and Graphs**

Normal Curve. Meaning of probability- Principles of normal curve – Properties of normal curve. Divergence from normality – Skewness and Kurtosis. Graphical Representation in Statistics; Line diagram, Bar diagram, Histogram, Frequency Polygon, Ogive Curve.

**UNIT V – Inferential and Comparative Statistics**

Tests of significance; Independent “t” test, Dependent “t” test – chi – square test, level of confidence and interpretation of data. Meaning of correlation – co-efficient of correlation – calculation of co-efficient of correlation by the product moment method and rank difference method. Concept of ANOVA 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; Illinois: Human Kinetics;  
Kamlesh, M. L. (1999) Research Methodology in Physical Education and Sports, New Delhi  
Rothstein 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, Karakudi, Senthilkumar Publications.

  
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SYLLABUS OF EXAMINATION M.P. ED. COURSE  
Semester -II

**MPCC-202 SPORTS BIOMECHANICS AND KINESIOLOGY**

**Course Objectives:** To provide the basic concept of Kinesiology, Sports Biomechanics, muscle mechanics and understanding of orthopedic sports biomechanics. Develop the understanding of application of kinematics, kinetics in human locomotion. Development of knowledge in analyzing the fundamental human movements using different methods of investigation technique.

**Course Outcomes:** Specific skills and competencies expected from the students who complete this course include the following:

1. By the end of the semester, it is expected that the students will be able to know the importance of Kinesiology and Biomechanics in the area of physical education and sport.
2. The students will be able to understand about the anatomical terms, structure, composition, properties and functions of skeletal muscles.
3. It is expected that the students will be able to demonstrate and apply basic mechanical laws of physics principles to human movements.
4. It is expected that the students will be able to identify the relationship between anatomical structure and mechanical principles in relation to the performance of basic and complex motor tasks.
5. It is expected that the students will be able to critically examine the performance of physical activity skills and to evaluate the performance against the principles of efficient movement.

**UNIT I-Introduction**

Meaning of applied Kinesiology and Sports Biomechanics  
Scope of applied Kinesiology and Sports Biomechanics  
Axes and Planes  
Role of Centre of gravity and line of gravity in sports  
Vectors and Scalars

**UNIT II -Muscle Mechanics**

Major Muscles around Shoulder: Origin, insertion and actions  
Major Muscles around Elbow: Origin, insertion and actions  
Major Muscles around Trunk: Origin, insertion and actions  
Major Muscles around Hip: Origin, insertion and actions  
Major Muscles around Knee and Ankle: Origin, insertion and actions

**UNIT III-Force, Projectile and Lever**

Force: Sources, Types, Force applied at angle, Spin, Pressure, Friction, Fluid Friction and Buoyancy  
Freely falling bodies: Projectile and factors affecting projectile  
Stability: Factors affecting stability,  
Work, Power and Energy: Kinetic and potential energy  
Lever: Types of lever and its application

**UNIT IV-Biomechanical analysis of fundamental movements**

Walking  
Running  
Jumping  
Pulling  
Pushing

**UNIT V-Movement analysis and methods of investigation**

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Kinesiological, Mechanical and Biomechanical Analysis  
Qualitative, Quantitative and Predictive Analysis  
Filming fundamental and photo instrumentation  
Photography and Videography  
Methods of determining center of gravity in human body

**REFERENCES**

- Hay, James G. The Biomechanics of Sports Techniques (Englewood Cliffs N.J. Prentice Hall, Inc. 1970)  
Hay, James G. The Anatomical and Mechanical Basis of Human Motion (Englewood Cliffs N.J. Prentice Hall, Inc. 1982)  
Bunn, John W. Scientific Principles of Coaching (Engle Wood cliffs: N.J. Prentice Hall Inc. 1972)  
Rasch and Burke Kinesiology and Applied Anatomy (Philadelphia: Lea and Fibger, 1967)  
Scott, M.G. Analysis of Human Motion (New York, 2005)  
Thompson, Floyd Manual of Structural Kinesiology (McGraw Hill, Singapore, 2004)  
Carr Gerry, Mechanics of Sports, (Human Kinetics 1997)  
Wells K.P. Kinesiology (Philadelphia: W.B. Saunders Co. 1966)

  
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**Semester- II**

**MPCC-203 ATHLETIC CARE AND REHABILITATION**

**Course Objectives:** The objectives of this course are to expose the students to the range of athletic care and rehabilitation, to make familiar them with sports injuries and their management and provide guidance in the postural deformities, massage and rehabilitation exercises.

**Course Outcomes:** At the end of the course, the student shall understand the concepts:

1. Definition and objectives of corrective physical Education
2. Resisted exercise for Rehabilitation and history of Massage Various techniques of massage
3. Method of treatment for various types of injuries

**Unit I – Corrective Physical Education**

Definition and objectives of corrective physical Education. Posture and body mechanics, Standards of Standing Posture. Value of good posture, Drawbacks and causes of bad posture.

Posture test – Examination of the spine.

**Unit II – Posture**

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

**Unit III – Rehabilitation Exercises**

Principles of Rehabilitation, Passive & Active, Assisted & Resisted exercise for Rehabilitation, Stretching Exercises.

**Unit IV – Massage**

Brief history of massage – Massage as an aid for relaxation.

Physical, Physiological and Psychological effects of massage. Classification of Massage – Indication /Contra indication of Massage

Practical on massage techniques

**Unit V – Sports Injuries Care, Treatment and Support**

Principles pertaining to the prevention of Sports injuries

Care and treatment of exposed and unexposed injuries in sports.

Principles of application of cold and heat, infrared rays – Ultrasonic, Therapy – Short wave diathermy therapy.

Principles and techniques of Strapping and Bandages.

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

**REFERENCES:**

Doherty, J. Meno, Wetb, Moder D (2000) Track & Field, Englewood Cliffs, Prentice Hal Inc.

Lace, M. V. (1951) Massage and Medical Gymnastics, London: J & A Churchill Ltd.

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

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

Rathbone, J.I. (1965) Corrective Physical education, London: W.B. Saunders & Co.

Stafford and Kelly, (1968) Preventive and Corrective Physical Education, New York.



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Semester- II

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

**Course Objectives:** The objectives of this course are to expose the students about the journalism, ethics of journalism, sports bulletin, mass media and report writing on Sports.

**Course Outcomes:** On completion of the course the student shall understand the following concepts:

1. Concept of journalism and procedure of reporting sports events
2. Role of Mass media, in sports and Radio/TV commentary
3. Procedure of reporting games and organizing press meet
4. Evaluation of news and visiting method to media offices

**UNIT I Introduction**

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

**UNIT II Sports Bulletin**

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

**UNIT III Mass Media**

Mass Media in Journalism: Radio and T.V. Commentary – Running commentary on the radio, Role of Advertisement in Journalism. Sports Photography: Equipment- Editing – Publishing.

**UNIT IV Report Writing on Sports**

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

**UNIT -V Journalism**

Sports Journalism – General news reporting and sports reporting. Methods of Sports reporting. Interview with and elite Player and Coach.

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

Collection of Album of newspaper cuttings of sports news.

**REFERENCE:**

- Ahiya B.N. (1988) Theory and Practice of Journalism: Set to Indian context Ed3. Delhi : Surjeet Publications
- Ahiya B.N. Chobra S.S.A. (1990) Concise Course in Reporting. New Delhi: Surjeet Publication
- Bhatt S.C. (1993) Broadcast Journalism Basic Principles. New Delhi. Haranand Publication
- Dhananjay Joshi (2010) Value Education in Global Perspective. New Delhi: Lotus Press.
- Kannan K (2009) Soft Skills, Madurai: Madurai: Yadava College Publication
- Mohit Chakrabarti (2008): Value Education: Changing Perspective, New Delhi: Kanishka Publication.
- Padmanabhan. A & Perumal A (2009), Science and Art of Living, Madurai: Pakavathi Publication
- Shiv Khera (2002), You Can Win, New Delhi: Macmillan India Limited.
- Varma A.K. (1993) Journalism in India from Earliest Times to the Present Period. Sterling publication Pvt. Ltd.
- Venkataiah. N (2009) Value Education, - New Delhi: APH Publishing Corporation.



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

**Course Objectives:** Objectives of the course enable students to understand the management principles and guidelines. Understand principles of public relation. Understand how to utilize Curriculum Source.

**Course Outcomes:** of the course, students will be able to:

1. Measure class management and presentation techniques application of organization management.
2. Generalize all physical activities for professional enhancement they will become leader of Field.
3. Evaluate various types of tournament to focus professionalism.
4. Understand the benefit and drawbacks of personnel management and their policies.
5. Prepare standard and nonstandard sports meet in colleges.

**UNIT I – Introduction to Sports Management  
Meaning and Definition of Management**

**Theories of Management**

Meaning and Definition of Sports Management

Importance Sports Management

Basic Principles and Procedures of Sports Management

Functions of Sports Management.

**UNIT II – Personnel Management**

Personnel Management:

Objectives of Personnel Management,

Personnel Policies, Role of Personnel Manager in an organization, Personnel

Recruitment and selection

Management Guidelines for School, Colleges Sports Programs,

Management Problems in Sports event programme, Community Based Physical Education  
And Sports program

**UNIT III – Equipments and Public Relation**

Purchase and Care of Supplies of Equipment, Guidelines for selection of Equipments and

Supplies, Purchase of equipments and supplies, Equipment Room, Equipment and supply

Manager, Guidelines for checking, storing, issuing, care and maintenance of supplies and

Equipments. Public Relations in Sports; Planning the Public Relation Program –

Principles of Public Relation – Public Relations in School and Communities – Public

Relation and the Media

**UNIT IV – Curriculum**

Meaning and Definition of Curriculum, Principles of Curriculum Construction: Students

Centred, Activity centred, Community centred, Forward looking principle, Principles of

Integration, Theories of curriculum development, Conservative (Preservation of Culture),

Relevance, flexibility, quality, contextually and plurality

**UNIT V – Curriculum Sources**

Factors that affecting curriculum: Sources of Curriculum materials – text books –

Journals – Dictionaries, Encyclopaedias, Magazines, Internet, Integration of Physical

Education with other Sports Sciences – Curriculum research, Objectives of Curriculum

Research – Importance of Curriculum research, Evaluation of Curriculum, Methods of

Evaluation

**Reference:**

Aggarwal, J.C (1990). Curriculum Reform in India – World overviews, Doaba World

Education Series – 3 Delhi: Doaba House, Book seller and Publisher.

  
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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: Moby Publishing Company.  
Carl, E, Willgoose. (1982). Curriculum in Physical Education, London: Prentice Hall.  
Chakraborty & Samiran. (1998). Sports Management. New Delhi: Sports Publication.  
Charles, A, Bucher & March, L, Krotee. (1993). Management of Physical Education and Sports. St. Louis: Mosby Publishing Company.  
Chelladurai, P. (1999). Human Resources Management in Sports and Recreation. Human Kinetics.

  
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Semester- III

**MPCC-301 SCIENTIFIC PRINCIPLES OF SPORTS TRAINING**

**COURSE OBJECTIVES:** This course will enable students to promote concepts of scientific sports training approach. To describe evident facts about training load, adaptation and recovery. To provide diagnosis to improve motor components. To inculcate planned sports training practices for efficient sports performance.

**COURSE OUTCOMES:** Specific skills and competencies expected from the students who complete this course include the following:

1. Understand scientific sports training means and methods patterns.
2. Understand importance and application of training load, adaptation, and recovery to improve sports performance.
3. Enhance the understanding about means and methods to develop motor components.
4. Encourage effective sports training formulation and regulation with correct feedback.
5. Focus on Long Term Athlete Development (LTAD).

**UNIT I-Introduction**

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

**UNIT II-Components of Physical Fitness**

Strength: Methods to improve Strength: Weight Training, Isometric, Isotonic, Circuit Training, Speed: Methods to Develop Speed: Repetition Method, Downhill Run, Parachute Running, Wind Sprints, Endurance, Methods to Improve Endurance: Continuous Method, Interval Method, Repetition Method, Cross Country, Fartlek Training

**UNIT III-Flexibility**

Flexibility: Methods to Improve the Flexibility- Stretch and Hold Method, Ballistic Method, Special Type Training: Plyometric Training, Training for Coordinative abilities: Methods to improve Coordinative abilities: Sensory Method, Variation in Movement Execution Method, Variation in External Condition Method, Combination of Movement Method, Types of Stretching Exercises.

**UNIT IV-Training Plan**

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

**UNIT V-Doping**

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

**REFERENCES:**

- BeotraAika, (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.  
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Daniel, D. Arnheim (1991) Principles of Athletic Training, St. Luis, Mosby Year Book  
David R. Mottram (1996) Drugs in Sport, School of Pharmacy, Liverpool: John Moore University  
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Handyal Singh (1991) Science of Sports Training, New Delhi, DVS Publications  
Jensen, C.R. & Fisher A.G. (2000) Scientific Basic of Athletic Conditioning, Philadelphia  
Ronald, P. Pfeiffer (1998) Concepts of Athletics Training 2nd Edition, London: Jones and Bartlett Publications  
YograjThani (2003), Sports Training, Delhi : Sports Publications.

  
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Semester- III

MPCC-302 SPORTS MEDICINE

**Course Objectives:** The objectives of this course are to expose the students to the range of sports medicine, to make familiar them with sports injuries and their treatment, and provide guidance in the essentials of therapeutic exercises, massage and rehabilitation processes.

**Course Outcomes:** At the end of the course, it is expected that the students will be able to know about sports medicine, sports injuries and its treatment and its scope in the profession of Physical Education and Sports.

1. To define sports medicine and describe the needs, nature.
2. To understand the sports medicine within the area of physical Education and sports.
3. To understand the processes of sports injuries treatment.
4. Understand and apply basic classifications of massage techniques.

**UNIT I – Introduction**

Sports Medicine -Meaning, definition, Scope

Sports Medicine – Need, importance/Role

Therapeutic exercises -Definition and Principles, Strengthening exercise, Gym ball exercise, Injuries: acute, sub-acute, and chronic.

PRICE --Advantages and Disadvantages, Aquatic therapy.

**UNIT II – Spine Injuries and Exercise**

Head, Neck and Spine injuries: Causes and prevention

Flexion, Compression, Hyperextension, Rotation injuries.

Free hand exercises, stretching and strengthening exercise for head neck, spine.

Supporting and aiding techniques and equipment for Head, Neck and Spine injuries.

**UNIT III – Upper Extremity Injuries and Exercise**

Upper Limb and Thorax Injuries:

Shoulder: Sprain, Strain, Dislocation, and Strapping.

Elbow: Sprain, Strain, Strapping.

Wrist and Fingers : Sprain Strain, Strapping.

Stretching and strengthening exercise for shoulder, Elbow, Wrist and Hand.

Supporting and aiding techniques and equipment for Upper Limb and Thorax Injuries.

**UNIT IV – Lower Extremity Injuries and Exercise**

Lower Limb and Abdomen Injuries:

Hip: Adductor strain, Dislocation, Strapping.

Knee: Sprain, Strain, Strapping.

Ankle: Sprain, Strain, Strapping.

Abdomen: Abdominal wall Contusion, Abdominal muscle strain.

Stretching and strengthening exercise for Hip, knee, ankle and Foot.

Supporting and aiding techniques and equipment for Lower limb and Abdomen injures.

**UNIT V – Basic Rehabilitation**

Principles of Rehabilitation.

Strapping/Tapping: Definition, Precautions Contraindications.

Proprioceptive neuromuscular facilitation: Definition hold, relax, repeated contractions. Isotonic,

Isokinetic, isometric stretching- Advantages, dangers of stretching.



**Practicals:** Practical: tapping/tapping/ visit to Physiotherapy Centre/ Gym/health center to observe treatment / rehabilitation procedure of sports injuries.

**REFERENCES:**

- Christopher M. Norris. (1993). Sports Injuries Diagnosis and Management for Physiotherapists. East Kilbride: Thomson Litho Ltd.  
James. A. Gould & George J. Davies.(1985). Physical Physical Therapy. Toronto: C.V. Mosby Company.  
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The Encyclopedia of Sports Medicine. (1998).  
The Olympic Book of Sports Medicine,Australia: Tittel Blackwell Scientific publications.

  
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DEPARTMENT OF PHYSICAL EDUCATION  
GURU GHASIDAS VISHWAVIDYALAYA BILASPUR (C.G.)  
SYLLABUS OF EXAMINATION M. P. ED. PROGRAMME

Semester- III

MPCC-303 HEALTH EDUCATION AND SPORTS NUTRITION

**Course Objectives:** Objective of the course enable students to understand the meaning of health and relationships among the various aspects of health; analyze the principles and characteristics of health education; Understand the importance of the hygiene and practices related to maintenance and promotions of Health; Prepare obligatory measures to prevent the contemporary health problems which are related to the Community; and understand the importance of safety education for preventing accidents and its general principles.

**Course Outcomes:** Outcome of the course, students will be able to:

1. Illustrate the Perception of Health Education, and its hazards. To interpret the Individual, family, community and national health.
2. Understand the importance of Hygiene in food and environment and estimate food poisoning and allergies.
3. Survey the health conditions in rural, metropolitan and urban areas and sketch the Role of W.H.O.
4. Recommend the first aid procedure involved and order the advantages in first aid.
5. Role of safety education and its Principles and Procedures for life situation and validate it.

**Unit - I Health Education**

Health- Meaning, Definition, Concept, Dimensions, Spectrum and Determinants.  
Health Education- Meaning, Definition, Aim, objectives and Principles  
Health Instruction, Health Supervision  
Health Service and guiding 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, and dental Hygiene, Effect of Alcohol on Health, Effect of Tobacco on Health, Life Style Management, Management of Hypertension, Management of Obesity, and Management of Stress.

**Unit – IV- Introduction to Sports Nutrition**

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

**Unit – V Nutrition and Weight Management**

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



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Semester- III

MPEC-301 SPORTS ENGINEERING (Elective)

**Course Objectives:** The objectives of this course are to expose the students to the range of sports engineering, mechanics of movements, sports dynamics, and facility life cycle costing.

**Course Outcomes:** At the end of the course the student should understand

1. Meaning, purpose, advantages and applications of Sports engineering and technology.
2. The current application of sports dynamics for better performance in sports.
3. Monitoring and training technology and materials technology to enhance sport performance.
4. The current and future impact of technology on building and maintenance

**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.

**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**

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Steve Hake, Editor, **The Engineering of Sport** (CRC Press, 1996)

Franz K. F. et. al., Editor **The Impact of Technology on Sports II** (CRC Press, 2007)

Helge N., **Sports Aerodynamics** (Springer Science & Business Media, 2009)

Yonlin Hong, Editor **Routledge Handbook of Ergonomics in Sport and Exercise** (Routledge, 2013)

Jenkins M., Editor **Materials in Sports Equipment, Volume I** (Elsevier, 2003)

Colin White, **Projectile Dynamics in Sport: Principles and Applications**

  
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Semester- III

**MPEC-302 PHYSICAL FITNESS AND WELLNESS (Elective)**

**Course Objectives:** The objective of this course is to provide a clear understanding of fitness and wellness knowledge to the students. This course will also provide the knowledge to students about of various aspects of nutrition, aerobic and anaerobic exercises.

**Course Outcomes:** At the end of the course, students will be able to-

1. Understand importance of fitness and wellness in modern era.
2. Get advantage with the knowledge of various health benefits through fitness and wellness.
3. Understand nutrition, aerobic and anaerobic exercises.
4. Understand different principles of exercise program.

**Unit I – Introduction**

Meaning and definition of Physical Fitness and Physical Fitness Concepts and its components.  
Physiological principles involved in physical fitness.  
Leisure time physical activity and identify opportunities in the community to participate in this activity.  
Current trends in fitness and conditioning.  
Understanding of Wellness and its dimensions.  
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.  
Weight Management-proper practices to maintain, lose and gain.  
Eating Disorders, Proper hydration, Female Athlete Triad.

**Unit III – Aerobic Exercise**

Cardio respiratory Endurance Training - 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.  
Cardio respiratory Endurance Training for different age groups.

**Unit IV – Anaerobic Exercise**

Resistance Training for Muscular Strength and Endurance; principles of resistance training.  
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.  
Weight training concepts for women.

**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 and Yoga.

**Reference:**

David K. Miller & T. Earl Allen, Fitness. A life time commitment, Surjeet Publication Delhi 1989.  
Difcours Judy, the complete guide to the postnatal fitness, A & C Black Publishers Ltd, 35 Bedford row, London 1998

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

**Course Objectives:** The objective of this course is to provide knowledge about information technology and communication technology. The students will know about computer, ICT Integration in Teaching Learning Process.

**Course Outcomes:** At the end of the course the student should be able to:

1. State the meaning of information technology and communication technology.
2. Concept, Elements, Process & Types of Communication.
3. Concept & Importance of ICT.
4. Fundamentals of Computers and MS Office Applications
5. ICT in Teaching Learning Process Project Based Learning
6. Justify the need & Significance of ICT in Education.
7. E-Learning & Web Based Learning

**Unit I – Communication & Classroom Interaction**

Concept, Elements, Process & Types of Communication  
Communication Barriers & Facilitators of communication  
Communicative skills of English - Listening, Speaking, Reading & Writing  
Concept & Importance of ICT Need of ICT in Education  
Scope of ICT: Teaching Learning Process, Publication Evaluation, Research and Administration  
Challenges in Integrating ICT in Physical Education

**Unit II – Fundamentals of Computers**

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

**Unit III – MS Office Applications**

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

**Unit IV – ICT Integration in Teaching Learning Process**

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

**Unit V – E-Learning & Web Based Learning**

E-Learning  
Web Based Learning  
Visual Classroom

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Semester-IV

MPCC-402 SPORTS PSYCHOLOGY

**Course Objectives:** The objective of this subject is to learn the theories, concepts, and intervention techniques of sport psychology. Topics covered will include motivation theory applied to sport, team dynamics, psychological skills training, the psychology of sport injury, and burnout in sports.

**Course Outcomes:** At the end of the course the student should be able to:

1. Explain group mechanisms and group psychology in a sports context.
2. Reflect upon motivational psychology as applied to sports activities.
3. Formulate relevant constructs of exercise psychology
4. Demonstrate the ability to discuss sociological theories, concepts, and ideas in large and small groups and to express empirically as well as theoretically-based opinions.
5. To apply core sociological theories to specific social problems in order to analyse social problems

**UNIT I - Introduction**

Meaning, Definition, History, Need and Importance of Sports Psychology

Motor Learning: Basic Considerations in Motor Learning

Principles of Motor skill learning

Motor Perception: Factors Affecting Perception

Cognitive process: thinking, memory and learning

Personality: **dimension**, theories of personality, measurement of personality.

Effects of Personality on Sports Performance

**UNIT II - Motivation**

Meaning and Definition, Types of Motivation: Intrinsic, Extrinsic, Achievement

Motivation. Motivation techniques, Impact on sports performance

Factors influencing motivation

Psychological factors affecting sports performance: Emotions, Anxiety aggression, stress, self-confidence, concentration.

**UNIT III – Goal Setting**

Meaning and Definition, Mental practice and Goal Setting, Process of Goal Setting in Physical Education and Sports

Relaxation: methods of psychological relaxation

Psychological skill training for activation and relaxation

Psychological Tests: Types of Psychological Test.

**UNIT IV Sports Sociology**

Meaning and Definition – Sports and Socialization of Individual Sports as Social Institution

Methods of investigation in sports psychology

  
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Various methods used in sports psychology  
Psychological characteristics of Pre, Post and during competition  
Long and short term psychological preparation for performance/ competition  
Spectators and sports performance

#### UNIT V – Group Cohesion

Group: Definition and Meaning, Group Size, Groups on Composition, Group Cohesion, Group In- traction, Group Dynamics.

Current Problems in Sports: Women in our Society, Participation pattern among Women, Gender inequalities in Sports.

Practical's: At least five experiments related to the topics listed in the Units above should

be conducted by the students in laboratory. (Internal assessment.)

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Semester IV  
MPCC-403

**JOURNALISM AND MASS COMMUNICATION IN SPORTS**

**Course Objectives:** The objectives of this course to enable the student to pursue a career in sports journalism, with the basic essential tools required to enter that field Report, interview, write bulletins compile and writing features in this field.

**Course Outcomes:** At the end of the course the student should be able to:

1. Know about the leading national and International sports news agencies.
2. How to seek accreditation to sporting events and to report on such events.
3. Demonstrate analytic skills in relation to reporting sporting events
4. Produce a number of assignments that demonstrate their own style and perception of events.

**UNIT I- INTRODUCTION**

Concept, Meaning and Definition of Journalism.  
Scope, Principles and Ethics of Journalism.  
Concept, Meaning, and Definition of Sports Journalism  
Concept, Meaning and scope of mass communication.  
Role of sports journalism and mass communication in promoting sports.

**UNIT II- SPORTS BULLETIN**

Sports events and its reporting  
Leading national and International sports news agencies  
Concept and structure of Sports Bulletin  
Type of Bulletin- Role of Journalism in the field of Physical Education.  
General news reporting and sports reporting

**UNIT III- MASS COMMUNICATION AND SOCIAL MEDIA**

Mass Communication electronic media  
i. Radio and T.V. commentary  
ii. Social media, facebook, twitter, whats app etc  
Merits and Demerits of electronic media  
Merits and Demerits of social media

**UNIT IV- MASS COMMUNICATION PRINT MEDIA**

Mass Communication Print Media  
i. News Paper,  
ii. sports magazine  
iii. Sports journals and Periodicals  
Merits and Demerits of print media  
Sports Photography :Equipment's- Editing- publishing  
Sports journalism- General news reporting and sports reporting. Methods of sports reporting.  
Interview with and Elite players and Coach.



**UNIT-V REPORT WRITING ON SPORTS**

Brief review of Olympic games, Asian games, Common wealth games, world cup, National games and Indian traditional games. Preparing reports on Annual sports meet for publication in newspaper.

Practical assignments to observe the matches and prepare report and news of the same; visit to newspaper office and T.V. centre to know various departments and their working.

Collection of Album of newspaper cutting of sports news.

**REFERENMCES:-**

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

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

Bhatt S.C. (1993) Broadcast Journalism Basic Principles, New Delhi, Haramand Publication

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Semester IV  
MPEC-401 DISSERTATION

**Course Objectives:** The objectives of this course are to expose the students to the range of research methods, to make familiar them with research steps and publication ethics, and provide guidance in the essentials of research report writing by using.

**Course Outcomes:** At the end of the course, the students will be able to conduct thesis work on any topic, and will also be able to analyse qualitative and quantitative data, to write research proposal and report.

**Instructions:**

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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Semester IV

**MPEC-402 EDUCATION TECHNOLOGY IN PHYSICAL EDUCATION**

**Course Objectives:** The objective of this course is to provide knowledge about education technology and communication technology. The students will know about Instructional Strategies and Media for Instruction.

**Course Outcomes:** At the end of the course the student should be able to:

1. State the meaning of Education Technology and Communication types.
2. Concept, Elements, Process & Types of Communication.
3. Goal Setting, Task Analysis, Content Analysis
4. Audio Visual Media in Physical Education
5. New Horizons of Educational Technology

**Unit I Nature and Scope**

Educational technology-concept, Nature and Scope.

Forms of educational technology: teaching technology, instructional technology, and behaviour technology;

Transactional usage of educational technology: integrated, complementary, supplementary stand-alone (independent);

Programmed learning stage; media application stage and computer application stage.

**Unit II Systems Approach to Physical Education and Communication**

Systems Approach to Education and its Components:

Goal Setting, Task Analysis, Content Analysis, Context Analysis and Evaluation Strategies; Instructional Strategies and Media for Instruction.

Effectiveness of Communication in instructional system; Communication Modes, Barriers and Process of Communication.

**Unit III Instructional Design**

Instructional Design: Concept, Views.

Process and stages of Development of Instructional Design.

Overview of Models of Instructional Design;

Instructional Design for Competency Based Teaching;

Models for Development of Self Learning Material.

**Unit IV Audio Visual Media in Physical Education**

Audio-visual media - meaning, importance and various forms Audio/Radio:

Broadcast and audio recordings - strengths and Limitations, criteria for selection of instructional units, script writing, pre-production, post-production process and practices, Audio Conferencing and Interactive Radio Conference.

Video/Educational Television: Telecast and Video recordings Strengths and limitations, Use of Television and CCTV in instruction and Training, Video Conferencing, SITE experiment, countrywide classroom project and Satellite based instructions.

Use of animation films for the development of children's imagination.



**Unit V New Horizons of Educational Technology**

Recent innovations in the area of ET interactive video - Hypertext, video-texts, optical fiber technology - laser disk, computer conferencing. etc.

Procedure and organization of Teleconferencing/Interactive video-experiences of institutions, schools and universities.

Recent experiments in the third world countries and pointers for, India with reference to Physical education.

Recent trends of Research in Educational Technology and its future with reference to education.

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Semester I

Practicum Course

MPPC- 101 TRACK AND FIELD-I  
(RUNNING EVENTS)

Field Marking for all jumping events in a project form with performance testing

Running

- Fundamental skills –Short and Middle distance.
- Use of Starting blocks- stance on the blocks.
- Body position at the start- starting technique, change in body position during running, movements of the arms, stride length and frequency, position of torso while running and at finish.
- Advanced Skills Various techniques of sprint start: Bullet start, standing start
- Active game practice

Semester I

Practicum Course

MPPC- 102 PRACTICAL SPORTS SCIENCES

(Two practical for each subject)

Practical of Sports Psychology

- Competitive Behaviour
- Motivation Inventory
- Personality Test
- Emotional Intelligence
- Anxiety
- Sportsman Spirit

Physiology of Exercise

- Assessment of Cardiorespiratory fitness- Harvard Step test, Coopers 12 min run walk test
- Assessment of Physiological Parameters- Heart Rate, Respiratory Rate and Blood Pressure
- Calculation of Target Heart Rate
- Assessment of Muscular Strength / Endurance- Back and Leg Dynamometer, Hand- Grip Dynamometer
- Assessment of Flexibility- Sit & Reach Flexibility Test

Sports Biomechanics and Kinesiology

- Location of Centre of Gravity (Joint point method-Segmentation, Suspension)
- Photography
- Videography
- Goniometer



Semester I  
Practicum Course

MPPC- 103 YOGA

Yoga, Asanas prescribed by Maharshi 'Patanjali' (Sitting, Standing and Lying),  
Kriyas:-ShudhiKriyas, jalneti, sutraneti,dugdhaneti, kunjaj, Nauli, Bhastika, shatkriya, Pranayamas:-  
Anulom-vilom, Kapaibhati,  
Meditation

Semester I  
Practicum

MPPC-104 MASS DEMONSTRATION ACTIVITIES

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

- Apparatus/ Light apparatus Grip
- Attention with apparatus/ Light apparatus
- Stand – at – ease with apparatus/ light apparatus
- Exercise with verbal command, drum, whistle and music – Two count, Four count, Eight count and Sixteen count.
- Standing Exercise
- Jumping Exercise
- Moving Exercise
- Combination of above all
- Rhythmic exercises and cheer leader concept

FLAG HOISTING, MARCH PAST, CEREMONIES LIKE OPENING, CLOSING, VICTORY,(DURING INTRA MURALS COMPETITIONS) OF DIFFERENT SPORTS AND GAMES/ LEAD UP GAMES/ MINOR GAMES/ RELAY GAMES

**National Flag:** Meaning, concept and significance of National Flag, Symbolism of Tri-colour and Wheel. Code of hoisting or lowering of Flag, Dimensions of the Flag & tri-colour proportions.Honour of the Flag and its use. Penalty of misusing or dishonouring the Flag. Opening and Closing Ceremonies: Schedule and formality of Opening Ceremony- Unfurling of Flag, Flame igniting, Oath, March-Past of players/teams, Salutation, Declaration of Opening of the Meet.Brief address by the guests, announcement of beginning of competition Victory & Prize distribution Ceremony- Planning of schedule for victory ceremony.Closing Ceremony: Assembly of sports-persons. March-Past, Salutation, re-assembly, brief address of the guests, Declaration of results and distribution of Prizes/ Certificates, Vote of thanks, Ceremonial Flag-lowering, Flame extinguishing, Declaration of Closing of the Meet.Practical of the organization of Sports / Athletic Meet during Intramural Programme should be arranged as a project by the students under the supervision of the faculty. Organization of Sports Festival, Play Day, Social Party games, etc. should be encouraged.



**Semester II**  
**Practicum Course**

**MPPC- 201 TRACK AND FIELD- II**  
**JUMPING EVENTS**

Field Marking for all jumping events in a project form with performance testing

- Long Jump
  - High Jump
  - Triple Jump
  - Pole Vault- Grip, Carrying, Plantation, Bending, body position in Air, Clearance the bar and landing
- Various techniques of all jumps  
Fundamental techniques of Take –off, body position in air and landing

**Semester II**  
**Practicum Course**

**MPPC-202 GAME SPECIALIZATION**

**The Candidate has choice to select any one game available in the department.**

History and Development of the Game

- Introduction of the Game
- World History
- Indian History

Major tournaments of the game (Inception and development )

- National
- International

Layout, Construction and Maintenance of the Court/ Playfield

Fundamental skills and their development

**Semester II**  
**Practicum Course**

**MPPC-203 TEACHING LESSONS OF GAME SPECIALIZATION**

The students of M.P.Ed – II Semester need to develop proficiency in taking teaching classes in indigenous activities and sport under school situation. In view of this, the students shall be provided with teaching experience. The duration of the lesson to be conducted by the students shall be in the range of 30 to 40 minutes depending on the class they are going to handle at school and college level. Each student teacher is expected to take at least five lessons during the course of the second semester. The lessons will be supervised by the faculty members and experts who would discuss the merits and demerits of the concerned lesson and guide them for the future. In these lessons, the duration should slowly increase and all the parts of the lesson covered progressively.

  
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बिलासपुर (छ.ग.)



**Semester II  
Practicum Course**

**MPPC-204 CLASS ROOM TEACHING  
(LESSONS ON SPORTS SCIENCES)**

The students of M.P.Ed – II Semester need to develop proficiency in taking teaching lessons on specific sports sciences. In view of this, the students shall be provided with selected specific teaching experience. The duration of the lesson to be conducted by these students shall be in the range of 30 to 40 minutes depending on the class time they are going to handle at school and college level.

Each student teacher is expected to take at least five lessons during the course of the second semester. The lessons will be supervised by the faculty members and experts who would discuss the merits and demerits of the concerned lesson and guide them for the future. In these teaching lessons, the duration should slowly increase and all the parts of the lesson covered progressively.

**Semester III  
Practicum Course**

**MPPC- 301 TRACK AND FIELD- III  
THROWING EVENTS**

- Field Marking for all throwing events in a project form with performance testing
  - Javelin
  - Shot Put
  - Discus
  - Hammer
- Basic techniques of grip, stance, execution and follow through  
Various techniques of each event

**Semester III  
Practicum Course**

**MPPC-302 GAME SPECIALIZATION**

Association / Federation

- International
- National
- State
- District

Rules/ Laws of the game and their Interpretations

Officials and their duties

Advanced Skills of the game and their development

**Semester III  
Practicum Course**

**MPPC-303 COACHING LESSONS OF TRACK AND FIELD**

The students of M.P.Ed – III Semester need to develop proficiency in taking coaching lesson on above mentioned selected discipline. In view of this, the students shall be provided with advance training and coaching in selected discipline. The duration of the lesson to be conducted by these students shall be in the range of 30 to 40 minutes depending on the class, they are going to handle at school and college level.



Each student teacher is expected to take at least five lessons during the course of the third semester. The lessons will be supervised by the faculty members and experts who would discuss the merits and demerits of the concerned lesson and guide them for the future. In these coaching lessons,

**Semester III**

**Practicum Course**

**MPPC-304 COACHING LESSONS OF GAME SPECIALIZATIONS**

The students of M.P.Ed – III Semester need to be develop proficiency in taking coaching lesson in selected game discipline. In view of this, the students shall be provided with advance training and coaching in selected discipline. The duration of the lesson to be conducted by these students shall be in the range of 30 to 40 minutes depending on the class they are going to handle at school and college level.

Each student teacher is expected to take at least five lessons during the course of the third semester. The lessons will be supervised by the faculty members and experts who would discuss the merits and demerits of the concerned lesson and guide them for the future. In these coaching lessons, the duration should slowly increase and all the parts of the lesson covered progressively.

**Semester IV**

**Practicum Course**

**MPPC- 401 TRACK AND FIELD - IV  
SPECIALIZATION**

Decathlon, heptathlon, steeple chase, relay, hurdles, Marathon and Cross country race  
Fundamental techniques of all events  
Officiating & organisation of track and field events

**Semester IV**

**Practicum Course**

**MPPC-402 GAME SPECIALIZATION**

Organisation of tournaments and its protocol  
Selection procedure of teams  
Various tests to measure skill proficiency  
Tactics: Individual and collective, Offensive and Defensive, System / Formation if any.  
Development of Specific physical components of the game

**Semester IV**

**Practicum Course**

**MPPC-403 OFFICIATING LESSONS OF TRACK**

The students of M.P.Ed – IV Semester need to develop proficiency in taking officiating lesson on selected above discipline. In view of this, the students shall be provided with advance mechanism of officiating in selected discipline. The duration of the lesson to be conducted by these students shall be in the range of 30 to 40 minutes depending on the class time they are going to handle at school and college level.

Each student teacher is expected to take at least five lessons during the course of the fourth semester. The lessons will be supervised by the faculty members and experts who would discuss the merits and demerits of the concerned lesson and guide them for the future. In these officiating lessons, the duration should slowly increase and all the parts of the lesson covered progressively.

**Semester IV**

**Practicum Course**

**MPPC-404 OFFICIATING LESSONS OF GAME SPECIALIZATION**

The students of M.P.Ed – IV Semester need to be develop proficiency in taking officiating lesson on selected game specialization. In view of this, the students shall be provided with advance

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mechanism of officiating in selected game specialization. The duration of the lesson to be conducted by these students shall be in the range of 30 to 40 minutes depending on the class time they are going to handle at school and college level. Each student teacher is expected to take at least five lessons during the course of the fourth semester. The lessons will be supervised by the faculty members and experts who would discuss the merits and demerits of the concerned lesson and guide them for the future. In these officiating lessons, the duration should slowly increase and all the parts of the lesson covered progressively.