# Rashtra Sant Tukadoji Maharaj Nagpur University, Nagpur

# CBS : Bachelor of Physical Education (B.P.Ed.) CURRICULUM (For Two Years)

Proposed Direction, Regulations and CBS B.P.Ed. Curriculum Semester - I to IV

# Effect From:- 2015-2017

# SCHEME OF EXAMINATION SEMESTER - I

Paper	Subject	Internal	External	Total
				Marks
	THEORY (400)			
CC-101	History, Principles and foundation of Physical	30	70	100
	Education			
CC-102	Anatomy and Physiology	30	70	100
CC-103	Health Education and Environmental Studies	30	70	100
EC-	Olympic Movement/Officiating and Coaching	30	70	100
101/102	(Elective)			
	PRACTICAL (400)			
PC-101	Track and Field (Running Events)	30	70	100
PC-102		30	70	100
PC-103	Indigenous Sports: Kabaddi/ Malkhambh/ lezim / March past	30	70	100
	(Any of one out of these)			
PC-104	Mass Demonstration Activities: Kho-Kho / dumbbells / tipri / wands / hoop /umbrella	30	70	100
	(Any one out of these)			
	Total	240	560	800

# **SEMESTER -II**

Paper	Subject	Internal	External	Total
				Marks
	THEORY (400)			
CC-201	Yoga Education	30	70	100
CC-202	Educational Technology and Methods of Teaching in	30	70	100
	Physical Education			
CC-203	Organization and Administration	30	70	100
EC-	Contemporary issues in physical education, fitness	30	70	100
201/202	and wellness/ Sports Nutrition and Weight			
	Management (Elective)			
	PRACTICAL (300)			
PC-201	Track and Field (Jumping Events)	30	70	100
PC-202	Yoga/Aerobics / Swimming / Gymnastics	30	70	100
	(Any of the two out of these)			
PC-203	Racket Sports:	30	70	100
	Badminton/ Table Tennis/ Squash/ Tennis			
	(Any of the two out of these)			
	TEACHING PRACTICE (100)			
TP-201	Teaching Practice (Classroom and outdoor)	30	70	100
	Total	240	560	800

# <u>SEMESTER –III</u>

Paper	Subject	Internal	External	Total
				Marks
	<u>THEORY (400)</u>			
CC-301	Sports Training	30	70	100
CC-302	Computer Applications in Physical Education	30	70	100
CC-303	Sports Psychology and Sociology Sports Medicine, Physiotherapy and	30	70	100
EC-	Sports Medicine, Physiotherapy and	30	70	100
301/302	Rehabilitation/Curriculum Design (Elective)			
	PRACTICAL (300)			
PC-301	Track and Field (Throwing Events)	30	70	100
PC-302	Combative Sports : Martial Art, Karate, Judo, Fencing,	30	70	100
	Boxing, Taekwondo, Wrestling (Any two out of these)			
PC-303	Team Games: Baseball, Cricket, Football, Hockey, Softball, Volleyball, Handball, Basketball, Netball	30	70	100
	(Any two of these)			
	TEACHING PRACTICE (100)			
TP-301	Teaching Practice (Teaching Lesson Plans for Racket	30	70	100
	Sport/ Team Games/Indigenous Sports)			
	Total	240	560	800
	SEMESTER -IV			
Paper	Subject	Internal	External	Total
				Marks
	THEORY (400)			
CC-401	Measurement and Evaluation in Physical Education	30	70	100
CC-402	Kinesiology and Biomechanics	30	70	100
CC-403	Research and Statistics in Physical Education	30	70	100
EC-	Theory of sports and games(Specifically sports and	30	70	100
401/402	games specialization)/Sports Management (Elective)			
	PRACTICAL (200)		1	
PC-401	Track and Field/Swimming /Gymnastics	30	70	100
	(Any of one out of these)			
PC-402	Kabaddi/ Kho-Kho/ Baseball/ Cricket/	30	70	100
	Football/Hockey/Softball/ Volleyball/ Handball/ Pasketball/ Netball/ Radminton/ Table Tennic/ Squash/			
	Basketball/ Netball/ Badminton/ Table Tennis/ Squash/			
	Tennis (Any of one out of these)			
TD 404	TEACHING PRACTICE (200)	20	70	100
TP-401	Sports Specialization: Coaching lessons Plans Track and Field/Swimming /Gymnastics	30	70	100
	(Any of one out of these)			
TP-402	Game specialization Coaching lessons: Kabaddi/ Kho- Kho/ Baseball/ Cricket/Football/Hockey /Softball/ Volleyball/ Handball/ Basketball/ Netball/ Badminton/	30	70	100
	Table Tennis/ Squash/ Tennis (Any of one out of these)	240	560	000
	Total	240	560	800

# B. P. Ed. - Outline of Syllabus

# Semester - I

# **Theory Courses**

# CC-101 HISTORY, PRINCIPLES AND FOUNDATION OF PHYSICAL EDUCATION

# **Unit – 1: Introduction**

 $_{\odot}\,$  Meaning, Definition and Scope of Physical Education  $_{\odot}\,$  Aims and Objective of Physical Education

 $\odot\,$  Importance of Physical Education in present era.  $\circ\,$  Misconceptions about Physical Education.

 $_{\odot}\,$  Relationship of Physical Education with General Education. $_{\odot}\,$  Physical Education as an Art and Science.

# Unit- 2 – Historical Development of Physical Education in India

 $_\odot$  Indus Valley Civilization Period. (3250 BC–2500 BC)  $_\odot$  Vedic Period (2500 BC–600 BC)  $_\odot$ Early Hindu Period (600 BC–320 AD) and Later Hindu Period (320 AD–1000 AD)  $_\odot$  Medieval Period (1000 AD–1757 AD)

- o British Period (Before 1947)
- Physical Education in India (After 1947)

 $\circ$ Contribution of Akhadas and Vyayamshals  $\circ$  Y.M.C.A. and its contributions.

# **Unit- 3- Foundation of Physical Education**

- Philosophical foundation:
- $\circ\,$  Idealism, Pragmatism, Naturalism, Realism, Humanism, Existentialism and Indian Philosophy and Culture.
- $\circ$   $\;$  Fitness and wellness movement in the contemporary perspectives
- $\circ$   $\;$  Sports for all and its role in the maintenance and promotion of fitness.

#### **Unit-4- Principles of Physical Education**

• Biological

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- Growth and development
- Age and gender characteristics
- Body Types
  - Anthropometric differences
- Psychological
  - Learning types, learning curve
  - Laws and principles of learning
    - Attitude, interest, cognition, emotions and sentiments

- o Sociological
  - Society and culture
  - Social acceptance and recognition
  - Leadership
    - Social integration and cohesiveness

#### **References:**

- Bucher, C. A. (n.d.) Foundation of physical education. St. Louis: The C.V. Mosby Co.
- Deshpande, S. H. (2014). *Physical Education in Ancient India*. Amravati: Degree college of Physical education.

Kanwar, R.C. (2015) History, Principles and Foundations of Physical Education. Nagpur: Amit Brothers Publications

Budhe, A. (2013 )Principles and History of Physical Education. Delhi; Sports Publications Mohan, V. M. (1969). *Principles of physical education.* Delhi: Metropolitan Book Dep.

Nixon, E. E. & Cozen, F.W. (1969). *An introduction to physical education*. Philadelphia: W.B. Saunders Co.

Obertuffer, (1970). Delbert physical education. New York: Harper & Brothers Publisher.

Sharman, J. R. (1964). Introduction to physical education. New York: A.S. Barnes & Co.

William, J. F. (1964). The principles of physical education. Philadelphia: W.B. Saunders Co.

## Semester I

# **Theory Courses**

# CC-102 ANATOMY AND PHYSIOLOGY

#### **UNIT-I**

 ○Brief Introduction of Anatomy and physiology in the field of Physical Education.○Introduction of Cell and Tissue.

 $\circ~$  The arrangement of the skeleton – Function - of the skeleton – Ribs and Vertebral column and the extremities – joints of the body and their types

oGender differences in the

skeleton.oTypes of muscles.

#### UNIT-II

• Blood and circulatory system: Constituents of blood and their function –Blood groups and blood transfusion, clotting of blood, the structure of the heart-properties of the heart

muscle, circulation of blood, cardiac cycle, blood pressure, Lymph and Lymphatic circulation. Cardiac output.

- The Respiratory system: The Respiratory passage the lungs and their structure and exchange of gases in the lungs, mechanism of respiration (internal and external respiration) lung capacity, tidal volume.
- $\circ~$  The Digestive system: structure and functions of the digestive system, Digestive organs, Metabolism,
- $\circ$   $\;$  The Excretory system: Structure and functions of the kidneys and the skin.
- $\circ~$  The Endocrine glands: Functions of glands pituitary, Thyroid, Parathyroid. Adrenal, Pancreatic and the sex glands.
- $\circ\,$  Nervous systems: Function of the Autonomic nervous system and Central nervous system. Reflex Action,
- $\circ$  Sense organs: A brief account of the structure and functions of the Eye and Ear.

#### UNIT-III

 $\circ\,$  Definition of physiology and its importance in the field of physical education and sports. $\circ\,$ 

Structure, Composition, Properties and functions of skeletal muscles.  $\ensuremath{\circ}$ 

Nerve control of muscular activity:  $\,\circ\,$  Neuromuscular junction

 $\circ$  Transmission of nerve impulse across it.  $\circ$  Fuel for muscular activity

• Role of oxygen- physical training, oxygen debt, second wind, vital capacity.

#### **UNIT-IV**

 $\circ\,$  Effect of exercise and training on cardiovascular system.  $\circ\,$  Effect of exercise and training on respiratory system.

- Effect of exercise and training on muscular system
- $\circ$  Physiological concept of physical fitness, warming up, conditioning and fatigue.  $\circ$  Basic

concept of balanced diet-Diet before, during and after competition.

#### **References:**

Gupta, A. P. (2010). Anatomy and physiology. Agra: Sumit Prakashan.

Gupta, M. and Gupta, M. C. (1980). Body and anatomical science. Delhi: Swaran Printing Press.

Guyton, A.C. (1996). Textbook of Medical Physiology, 9th edition. Philadelphia: W.B. Saunders.

Kanwar, R.C. (2015) Anatomy and Physiology. Nagpur: Amit Brothers Publications Budhe, A. ,Agrawal, K (2013) Anatomy, Physiology & Health Education .Delhi; Sports

Publications Karpovich, P. V. (n.d.). *Philosophy of muscular activity*. London: W.B. Saunders Co. Lamb, G. S. (1982). Essentials of exercise physiology. Delhi: Surjeet Publication.

Moorthy, A. M. (2014). *Anatomy physiology and health education.* Karaikudi: Madalayam Publications.

Morehouse, L. E. & Miller, J. (1967). *Physiology of exercise*. St. Louis: The C.V. Mosby Co.

Pearce, E. C. (1962). *Anatomy and physiology for nurses.* London: Faber & Faber Ltd. Sharma, R. D. (1979). *Health and physical education,* Gupta Prakashan.

Singh, S. (1979). Anatomy of physiology and health education. Ropar: Jeet Publications.

# Semester I

# Theory courses CC-103 HEALTH EDUCATION AND ENVIRONMENTAL STUDIES

#### **Unit – I Health Education**

- o Concept, Dimensions, Spectrum and Determinants of Health
- o Definition of Health, Health Education, Health Instruction, Health
- Supervision Aim, objective and Principles of Health Education
- $\circ$   $\;$  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
- o 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 Environmental Science**

- o Definition, Scope, Need and Importance of environmental studies.
- **o** Concept of environmental education, Historical background of environmental
- education,  $\,\circ\,$  Celebration of various days in relation with environment.
- $\circ~$  Plastic recycling & probation of plastic bag / cover.
- o Role of school in environmental conservation and sustainable development.

#### Unit – IV Natural Resources and related environmental issues:

- $_{\odot}\,$  Water resources, food resources and Land resources
- Definition, effects and control measures of:
- $\circ\,$  Air Pollution, Water Pollution, Soil Pollution, Noise Pollution, Thermal Pollution  $\,\circ\,$

Management of environment and Govt. policies , Role of pollution control board.

#### **References:**

Agrawal, K.C. (2001). Environmental biology.Bikaner: Nidhi publishers Ltd.

Frank, H. &Walter, H., (1976). *Turners school health education*. Saint Louis: The C.V. Mosby Company.

Kanwar, R.C. (2015) Health Education and Environmental Studies. Nagpur: Amit Brothers Publications

Nemir, A. (n.d.). The school health education. New York: Harber and Brothers.

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

# Semester - I

#### **Theory courses**

# EC-101 OLYMPIC MOVEMENT (ELECTIVE)

#### Unit – I Origin of Olympic Movement

**O** Philosophy of Olympic movement

#### $\circ\;$ The early history of the Olympic movement

 $_{\odot}$  The significant stages in the development of the modern Olympic movement  $_{\odot}\,$  Educational and cultural values of Olympic movement

#### Unit – II Modern Olympic Games

 $\circ\,$  Significance of Olympic Ideals, Olympic Rings, Olympic Flag $\,\circ\,$  Olympic Protocol for member countries

 $\odot\,$  Olympic Code of Ethics  $\,\circ\,$  Olympism in action  $\,\circ\,$  Sports for All

#### **Unit – III Different Olympic Games**

- Para Olympic Games
- Summer Olympics
- Winter Olympics
- Youth Olympic Games

#### **Unit – IV Committees of Olympic Games**

- **o** International Olympic Committee Structure and Functions
- $\circ~$  National Olympic committees and their role in Olympic
- movement  $\,\circ\,$  Olympic commission and their functions
- o Olympic medal winners of India

#### **Reference:**

Osborne, M. P. (2004). Magic tree house fact tracker: ancient greece and the olympics: a nonfiction companion to magic tree house: hour of the Olympics. New York: Random House Books for Young Readers.

Burbank, J. M., Andranovich, G. D. & Heying Boulder, C. H. (2001). Olympic dreams: the impact of mega-events on local politics: Lynne Rienner

Durge, R.R., Joshi, A.R. (2015) Olympic Movement : Nagpur : Amit Brothers Publications

## Semester - I

#### Theory courses

# EC-102 OFFICIATING AND COACHING

# (Elective) Unit- I: Introduction of Officiating and coaching

- o Concept of officiating and coaching
- Importance and principles of officiating

Relation of official and coach with management, players and spectators
 Measures of improving the standards of officiating and coaching

#### Unit- II: Coach as a Mentor

 $\odot\,$  Duties of coach in general, pre, during and post game.  $\circ\,$  Philosophy of coaching

 $\odot~$  Responsibilities of a coach on and off the field  $~\circ~$  Psychology of competition and coaching

#### **Unit- III: Duties of Official**

 $\circ\,$  Duties of official in general, pre, during and post game.  $\circ\,$ 

- Philosophy of officiating
- $\circ$  Mechanics of officiating-position, singles and movement etc.  $\circ$  Ethics of officiating

#### Unit- IV: Qualities and Qualifications of Coach and Official

- **O** Qualities and qualification of coach and official
- $\circ~$  General rules of games and sports
- $\circ~$  Eligibility rules of intercollegiate and inter-university tournaments, preparation of TA, DA bills
- $\circ~$  Integrity and values of sports

#### **Reference Books:**

Bunn, J. W. (1968). The art of officiating sports. Englewood cliffs N.J. Prentice Hall. Bunn, J.

W. (1972). Scientific principles of coaching Englewood cliffs N. J. Prentice Hall. Dyson, G.

H. (1963). The mechanics of athletics. London: University of London

Kanwar, R.C. (1991) Officiating and Coaching. Nagpur: Amit Brothers Publications

Press Ltd. Dyson, G. H. (1963). The mechanics of Athletics. London: University of London

Press Ltd. Lawther, J.D. (1965). Psychology of coaching. New York: Pre. Hall.

Singer, R. N. (1972). Coaching, athletic & psychology. New York: M.C. Graw Hill.

#### Semester – II

# **Theory Courses**

# **CC-201 YOGA EDUCATION**

#### Unit – I: Introduction

 $\circ$  Meaning and Definition of Yoga  $\circ$ 

Aims and Objectives of Yoga

- Yoga in Early Upanisads
- The Yoga Sutra: General Consideration
- o Need and Importance of Yoga in Physical Education and Sports

#### Unit - II: Foundation of Yoga

- $\circ~$  The Astanga Yoga: Yama, Niyama, Asana, Pranayama, Pratyahara, Dharana, Dhyana and Samadhi
- $\circ$  Yoga in the Bhagavadgita Karma Yoga, Raja Yoga, Jnana Yoga and Bhakti Yoga

#### **Unit - III Asanas**

Effect of Asanas and Pranayama on various system of the body
 Classification of asanas with special reference to physical education and sports
 Influences of relaxtive, meditative posture on various system of the body
 Types of Bandhas and mudras
 Type of kriyas

#### **Unit – IV Yoga Education**

• Basic, applied and action research in Yoga

 $\circ$ Difference between yogic practices and physical exercises  $\circ$ 

Yoga education centers in India and abroad o Competitions in Yogasanas

#### References:

Brown, F. Y.(2000). How to use yoga. Delhi: Sports Publication.

Gharote, M. L. & Ganguly, H. (1988). *Teaching methods for yogic practices*. Lonawala: Kaixydahmoe.

Rajjan, S. M. (1985). Yoga strengthening of relaxation for sports man. New Delhi: Allied Publishers.

Shankar, G. (1998). Holistic approach of yoga. New Delhi: Aditya Publishers.

Shekar,K. C. (2003). Yoga for health. Delhi: Khel Sahitya Kendra.

# Semester – II

#### **Theory Courses**

# CC-202 EDUCATIONAL TECHNOLOGY AND METHODS OF TEACHING IN PHYSICAL EDUCATION

# **Unit – I Introduction**

 ○Education and Education Technology- Meaning and Definitions⊙Types of Education- Formal, Informal and Non- Formal education.⊙Educative Process

• Importance of Devices and Methods of Teaching.

#### **Unit – II Teaching Technique**

 $\circ~$  Teaching Technique – Lecture method, Command method, Demonstration method, Imitation method, project method etc.

 $\circ\,$  Teaching Procedure – Whole method, whole – part – whole method, part – whole method.  $\circ$  Presentation Technique–Personal and technical

preparationoCommand- Meaning, Types and its uses in different

situations.

#### Unit – III Teaching Aids

- $\circ$   $\;$  Teaching Aids–Meaning, Importance and its criteria for selecting teaching aids.
- $\circ~$  Teaching aids Audio aids, Visual aids, Audio visual aids, Verbal, Chalk board, Charts, Model, Slide projector, Motion picture etc

 $\circ\mbox{Team}$  Teaching–Meaning, Principles and advantage of team

teaching.oDifference between Teaching Methods and Teaching Aid.

#### **Unit – IV Lesson Planning and Teaching Innovations**

oLesson Planning–Meaning, Type and principles of lesson plan.oGeneral and specific lesson plan.

- Micro Teaching–Meaning, Types and steps of micro teaching.
- Simulation Teaching Meaning, Types and steps of simulation teaching.

# **Reference:**

Bhardwaj, A. (2003). *New media of educational planning*.NewDelhi:Sarup of Sons. Bhatia,& Bhatia,(1959). *The principles and methods of teaching*.New Delhi: Doaba House.

Budhe, A. (2013) Educational Methodology. Delhi; Sports Publications.

Kochar, S.K. (1982). *Methods and techniques of teaching*.New Delhi: Sterling Publishers Pvt. Ltd.

Kanwar, R.C. (2008) Methods in Physical Education. Nagpur: Amit Brothers Publications Kavishwar, D.P. Methods in Physical Education. Nagpur; S.M. Publisher

- Sampath, K., Pannirselvam, A. & Santhanam, S. (1981). *Introduction to educational technology*. New Delhi: Sterling Publishers Pvt. Ltd.
- Walia, J.S. (1999). Principles and methods of education. Jullandhar: Paul Publishers.

# Section II

# Methodology of Special Subject

# (1) Sports Coaching (2) English (3) Marathi (4) Hindi (5) History (6) Geography (7) Science (8) Economics

# The Syllabus for each is as given below

# (1) Sports Coaching

- 1. Aims, Objectives and specifications of coaching sports, skills and techniques.
- 2. Different methods of coaching sports skills.
- 3. Class organization
- 4. Stages of skill teaching
- 5. Coaching aids and devices : Charts, Models, Film-strips, Posters, Motion Films, Gadgets, Flannelography, Epidiascope, Overhead Projector
- 6. Principles of the selection and use of A.V. aids in coaching sports skills.
- 7. Lead up games : Need and importance
- 8. Preparation of sports coaching lesson
  - (a) Various parts of lesson
  - (b) Basic requirement for the lesson

# **Books recommended**

Bounder , J. B. : How to be a Successful Coach

**Geoffrey Dyson : The Mechanics of Athletics** 

John Bunn : Scientific Principles of Coaching

J. P. Thomas : Physical Education Lessons

Kanwar R. C. (2008) Sports Coaching Amit Brothers Publications Nagpur

Kozman, Gassiy Jakson : Methods in Physical Education.

Lawther, J. D. : Psychology of Coaching

# (2) English

# (3)

- 1. The place of English in the curriculum of Secondary Schools.
- 2. Aims and objectives of teaching the subject as a compulsory language The stage at which to begin study and the time to be devoted.
- 3. Different aspects of the Teaching of English
  - a. Types of reading, oral and silent reading, their objective and how to improve reading.
  - b. Poetry, place of poetry teaching, choice of poems, methods of teaching, recitation, chorus reading.
  - c. Composition Oral, Written, Comprehension Methods of correction, teaching, spelling.
  - d. Grammer Place of Grammer in the teaching of English, Method of teaching
    - i. Grammer, formal and functional grammer.
    - ii. The difficulties of English : Word order, Sentence patterns, the usage, language exercise.
  - e. Supplementary reading. Intensive and extensive readers. Use of the Library.
  - f. Dictation : Its objectives, planning a dictation lesson.
  - g. Translation, paraphrase, précis writing.
- 4. Critical study of the English Syllabus at the higher and lower levels, essentials of a good text book.
- 5. Method of Teaching The direct Method, Dr. West's Method. The Grammer translation method, New Direct (Structural) approach, the comprehensive method.
- 6. Lessons planning with reference to different types of lesson.
- 7. The teaching of handwriting.
- 8. Teaching aids and devices, Pictures, Charts Models, Film strips the Gramophone, Radio, Cinema, Tape Recorder, Linguaphone, Flash cards, Dictator, Dramatisation, Debates, Story telling. Pen-Friendship, Language games, B.B. work Dialogues, Celebration of Festivals.
- 9. Co-curricular activities, Excursions Class magazines.
- 10. Evaluation procedure in English, Preparation of New type tests in English.
- 11. The qualities and qualifications of the teaching of English.
- 12. Phonetics : English speech, accent and intonation. Difficulties of pronunciation.

#### **Books recommended :**

- 1. T.K.N. Menon &Patel : The Teaching of English as a Foreign Language, Acharaya Book Depot, Baroda.
- 2. Gurry : Teaching of English as a Foreign Language, Orient Longman.
- 3. Frisby : The Teaching of English, Oxford University Press.
- 4. French : Teaching of English Abroad.

# (6) History

- 1. Meaning and scope of History. The place of History in the school curriculum.
- 2. Times, objectives and specifications of teaching
  - History. Criteria of good syllabus -
  - (a) Chronological
  - (b) Periodical
  - (c) Concentric
  - (d) Lines development
  - (e) Local History
  - (f) World History
  - (g) Current evente –
- 3. Essentials of a good Text Book in History Study of the prescribed course in History for High School classes in Maharastra.
- 4. Different methods of teaching Hisotry
  - (a) Story telling method
  - (b) Discussion method
  - (c) Text Book method
  - (d) Lecture method
  - (e) Project method
  - (f) Dalton Plan
  - (g) Source method
  - (h) Problem method
  - (i) Biographical method
- 5. Teaching aids and devices –

Charts, Maps, Graphs, Models, Discussions, Questions, Poems, Novels, Ballads, Picture, Inscriptions, Historical documents and time line.

6. Co-curricular activities

Visit of places of historical importance, Lectures, Note making, note taking and parallel reading, Dramatisation.

- 7. Correlation of History with other school subjects.
- 8. Education for National Integration and International understanding through teaching of History
- 9. Evaluation preparation of text items.
- 10. Qualities and qualification of the History Teacher.

# **Books recommended :**

- 1. The Teaching of History : V.D. Ghate, Oxford University Press
- 2. The Teaching of History : Johnson, Macmillan Co., Bombay
- 3. Creative Teaching of History : Ghose, K. D., Oxford University Press
- 4. Teaching of History : Kochhar, Sterling Publisher, Jallunder.

9. Teaching of History : Miss Vajreshwar, Allied Published, Bombay - 1

# (7) Geography

- 1. Meaning and scope of Geography. The place of Geography in school curriculum.
- 2. Aims, Objectives and Specification of teaching Geography with special emphasis on National Integration and International understanding.
- 3. Criteria of a good syllabus and text book in Geography. Grammer of Geography. Study of local and regional Geography. Study of the prescribed course in Geography in schools of Maharashtra State.
- 4. Different methods of teaching Geography -
  - (a) Observation method
  - (b) Story telling method
  - (c) Journey method
  - (d) Excursion method
  - (e) Laboratory method
  - (f) Regional method
  - (g) Project method
- 5. Map reading and map making.
- 6. Teaching aids and devices Maps, Charts, Diagrams, Models, Globe, Epidiascope, Films, Pictures, Specimens, Atlases and Schools Broadcast.
- 7. Co-curricular activities Excursions, Lectures, note making, note taking, parallel reading, preparing albums, stamp collecting and Geography clubs.
- 8. Correlation of Geography with other school subjects.
- 9. Evaluation preparation of test items.
- 10. Qualities and qualifications of the Geography Teacher. Books recommended
  - 1. Principles and Practice of Geography Teaching : Barnard, University Tutorial Press Ltd., London
  - 2. Teaching of Geography : Gospel, University Press, London
  - 3. Teaching of Geogrpahy in India : Verma, University Publication, Jallunder
  - 4. Suggestions for Teaching Geograpy : Maonee, Oxford University Press.
  - 5. Source Book of Teaching Geography : UNESCO (UNESCO, Longman)

# (8) Science

- 1. Importance and place of science in the School curriculum.
- 2. Aims, Objectives and specifications of teaching Science.
- 3. Criteria of good syllabus and text books in Science. Study of the prescribed Course in Science for High School classes in Maharashtra State.
- 4. Lesson planning in Science.
- 5. Method of teaching Science Lecture, Historical, Demonstration, Laboratory, Heuristic and problem methods.
- 6. Contribution of the Dalton Plan and the Project method to the teaching of the Science
  - a. Special problems and methods of Nature, Study and General Science.
  - b. Correlation of various branches of Science with one another and with other School Subjects.
- 7. Laboratory and its equipment, improvised apparatus.
- 8. Co-curricular Activities
  - a. Visits to Work-shops, Factories and other places of Scientific Interest.
  - b. School Museum
  - c. Science Clubs and Science Fairs
- 9. Aids to teaching Science Charts, Models, Specimens, Film Projector, Epidiascope, Radio and Tape-Recorder.
- 10. Qualities and qualification of the Science Teacher
- 11. Evaluation Preparation of test items.

#### Books recommended -

- 1. H. N. Sunder (UNESCO) : Teaching of General Science in Topical Secondary School, Oxford University.
- 2. Ghanshamdas : The Teaching of Physics and Chemistry in India, Oxford University Press, London.
- 3. T.S. Nagpal : The Teaching of Science, Krishna Brothers, Amritsar, Lundhiana.
- 4. D.R. Dawing : Introduction to Teaching of Science, Halt Rinchart Winston Terouts.
- 5. Sharma & Sharma : Teaching of Science, S.Chand, New Delhi

# (9) Economics

**Objectives :** 

- 1. To acquaint the student-teachers with the objectives of teaching Economics
- 2. To develop necessary skills in the preparation and use of teaching aids
- 3. To initiate the student-teachers to the various methods of Economics.
- 4. To develop competence in the use of various tools of evaluation.

# Unit-wise Breakup of the Syllabus

# Unit I :

- (a) The place of economics in education, aim and objectives of teaching Economics in Secondary School such as responsible citizenship, understanding, economic role of Governments, understanding economics, phenomenon, help to perform one's role as a producers or consumer to grasp the inter-dependence of man in modern times to think critically, to participate in the economic development of the country.
- (b) Place of economics in Secondary School and relation of the same with other subjects.
- (c) The presentation of economics at different stages in School as a Part of community living in Primary as a part of Social Studies in the Secondary, as a separate subject in the Higher Secondary. Approach to the teaching of economics in the Schools.

# Unit II :

Methods of teaching Economics, narration, text-book, survey, project, discussion, field trips, case study, preparation and interpretation of data through time series, graphs, pie and bar diagrams, pictographs, advantages, adaptation and scope of these methods.

# Unit III :

Audio-visual aids used in Economics Teaching maps, charts, model, graphs, diagrams, films-films trips, radio.

# Unit IV :

Economics room and museum, necessary equipment.

## Unit V :

Qualities and qualifications of a good Economics, Teacher, his professional equipment.

# Unit VI :

Preparation and criteria of framing Syllabus.

Preparation and criteria of framing syllabus in Economics at different levels, Criteria of a good Text-book in the subject, Study of present Syllabus and Text-book.

# Unit VII :

Preparation of the year's plan, unit plans and daily lesson plan-objectives, learning experience, teaching points, methods used.

# Unit VIII :

Evaluation and testing procedures in the teaching of Economics, knowledge of achievement test and preparation of unit tests.

# **Reference Books**

- 1. Teaching of Economics : B.S. Kanwar
- 2. Organizing Social Studies in Secondary Schools, 'Binning & Other (McGraw Hill)
- 3. The Teaching of Economics in Secondary School : Assistant Masters Association (Cambridge University Press, 1971)
- 4. H.S.C. Syllabus of M. S. Board of Secondary Education, Shivaji Nagar, Poona 10
- 5. Hand Bill

# Semester – II

# **Theory Courses**

# CC-203 ORGANZATION AND ADMINISTRATION IN PHYSICAL EUCATION

# Unit – I: Organization and administration

 Meaning and importance of Organization and Administration in physical education 

 Qualification and Responsibilities of Physical
 Education teacher and pupil leaderoPlanning and their basic principles,

- Program planning: Meaning, Importance, Principles of program planning in physical education.
- Functions of Planning, organizing, staffing, directing, communicating, coordination, controlling, evaluating and innovating.

# Unit- II: Office Management, Record, Register & Budget

- o Office Management: Meaning, definition, functions and kinds of office management
- Records and Registers: Maintenance of attendance Register, stock register, cash register, physical efficiency record, Medical examination Record.
- Budget: Meaning, Importance of Budget making,
- Criteria of a good Budget, Sources of Income, Expenditure, Preparation of Budget.

# Unit-III: Facilities, & Time-Table Management

○Facilities and equipment management: Types of facilities Infrastructure-indoor, out door.○Care of school building, Gymnasium, swimming pool, Play fields, Play grounds

- Equipment: Need, importance, purchase, care and maintenance.
- Time Table Management: Meaning, Need, Importance and Factor affecting time table.

# **Unit-IV:Competition Organization**

- Importance of Tournament,
- Types of Tournament and its organization structure Knock-out Tournaments, League or Round Robin Tournaments, Combination Tournament and challenge Tournament.
- Organization structure of Athletic Meet

# • Sports Event Intramurals & Extramural Tournament planning References:

Broyles, F. J. & Rober, H. D. (1979). Administration of sports, Athletic programme: AManagerial Approach. New York: Prentice hall Inc.

Bucher, C. A. (1983). Administration of Physical Education and Athletic programme.St.Lolis: The C.V. Hosby Co.

Kavishwar, D.P. Fundamentals of Track and Field. Nagpur; S.M. Publisher

Kozman, H.C. Cassidly, R. & Jackson, C. (1960). *Methods in Physical Education*. London: W.B. Saunders Co.

Pandy, L.K. (1977). *Methods in Physical Education*.Delhe: Metropolitan Book Depo.

- Sharma, V.M. & Tiwari, R.H.: (1979). *Teaching Methods in Physical Education*. Amaravati: Shakti Publication.
- Kanwar, R.C. (1995) Organisation, Administration and Sports Management. Nagpur: Amit Brothers Publications
- Budhe, A. (2013) Organisation, Administration and Supervision in Physical Education.Delhi; Sports Publication.
- Thomas, J. P.(1967). *Organization & administration of Physical Education*. Madras: Gyanodayal Press.
- Tirunarayanan, C. &Hariharan, S. (1969). *Methods in Physical Education*.Karaikudi: South India Press.
- Voltmer, E. F. & Esslinger, A. A. (1979). *The organization and administration of PhysicalEducation*. New York: Prentice Hall Inc.

# Semester - II

# **Theory Courses**

# EC-201 CONTEMPORARY ISSUES IN PHYSICAL EDUCATION, FITNESS AND WELLNESS (ELECTIVE)

# Unit – I Concept of Physical Education and Fitness

 $\circ$  Definition, Aims and Objectives of Physical Education, fitness and Wellness  $\circ$  Importance and Scope of fitness and wellness

- Modern concept of Physical fitness and Wellness
- Physical Education and its Relevance in Inter Disciplinary Context.

Unit - II Fitness, Wellness and Lifestyle

 ${\rm \circ}$  Fitness–Types of Fitness and Components of Fitness  ${\rm \circ}$  Understanding of Wellness

 Modern Lifestyle and Hypo kinetic Diseases–Prevention and ManagementoPhysical Activity and Health Benefits

# **Unit – III Principles of Exercise Program**

• Means of Fitness development-aerobic and anaerobic exercises

 $\circ$ Exercises and Heart rate Zones for various aerobic exercise intensities  $\circ$ 

Concept of free weight Vs Machine, Sets and Repetition etc

• Concept of designing different fitness training program for different age group.

**Unit – IV Safety Education and Fitness Promotion** 

- Health and Safety in Daily Life
- First Aid and Emergency Care
- Common Injuries and their Management
- Modern Life Style and Hypo-kinetic Disease–Prevention and Management

# **References:**

Difiore, J.(1998). Complete guide to postnatal fitness. London: A & C Black,. Giam, C.K &The, K.C. (1994). Sport medicine exercise and fitness. Singapore: P.G. Medical Book.

Mcglynn, G., (1993). *Dynamics of fitness*. Madison: W.C.B Brown.

Sharkey, B. J.(1990). Physiology of fitness, Human Kinetics Book.

# Semester II

# Theory courses

# EC-202 SPORTS NUTRITION AND WEIGHT MANAGEMENT (ELECTIVE)

**Unit – I Introduction to Sports Nutrition** 

Meaning and Definition of Sports
 Nutrition 

 Basic Nutrition guidelines

- Role of nutrition in sports
- Factor to consider for developing nutrition plan

Unit - II Nutrients: Ingestion to energy metabolism

 ${\rm \circ}$  Carbohydrates, Protein, Fat–Meaning, classification and its function  ${\rm \circ}$  Role of carbohydrates, Fat and protein during exercise

- Vitamins, Minerals, Water–Meaning, classification and its function
- $\circ\,$  Role of hydration during exercise, water balance, Nutrition daily caloric requirement and expenditure.

**Unit – III Nutrition and Weight Management** 

- Meaning of weight management Concept of weight management in modern era Factor affecting weight management and values of weight management
- Concept of BMI (Body mass index), Obesity and its hazard, Myth of Spot reduction, Dieting versus exercise for weight control, Common Myths about Weight Loss
- Obesity–Definition, meaning and types of obesity,
- $\circ\,$  Health Risks Associated with Obesity, Obesity Causes and Solutions for Overcoming Obesity.

Unit – IV Steps of planning of Weight Management

 ○Nutrition–Daily calorie intake and expenditure, Determination of desirable body weight⊙Balanced diet for Indian School Children, 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 References:

Bessesen, D. H. (2008). Update on obesity. J ClinEndocrinolMetab.93(6), 2027-2034.

Butryn, M.L., Phelan, S., &Hill, J. O.(2007). Consistent self-monitoring of weight: a key component of successful weight loss maintenance.*Obesity(Silver Spring)*. *15*(12), 3091-3096.

Chu, S.Y. & Kim, L. J. (2007). Maternal obesity and risk of stillbirth: a metaanalysis. *Am JObstetGynecol*, *197*(3), 223-228.

DeMaria, E. J. (2007). Bariatric surgery for morbid obesity. N Engl J Med, 356(21), 2176-2183.

Dixon, J.B., O'Brien, P.E., Playfair, J. (n.d.). Adjustable gastric banding and conventional therapy for type 2 diabetes: a randomized controlled trial. *JAMA. 299*(3), 316-323.

# Semester - III

# **Theory Courses**

# **CC-301 SPORTS TRAINING**

#### **Unit – I Introduction to Sports Training**

- Meaning and Definition of Sports Training
- o Aim and Objective of Sports Training
- Principles of Sports Training
- System of Sports Training Basic Performance, Good Performance and High Performance Training

#### **Unit – II Training Components**

oStrength–Mean and Methods of Strength DevelopmentoSpeed–Mean and Methods of Speed

#### Development

 $\circ~$  Endurance - Mean and Methods of Endurance Development  $\circ$  Coordination–Mean and Methods of coordination

DevelopmentoFlexibility-Mean and Methods of Flexibility

Development

# **Unit – III Training Process**

 $_{\odot}$ Training Load- Definition and Types of Training

Load OPrinciples of Intensity and Volume of stimulus

o Technical Training–Meaning and Methods of Technique Training o

Tactical Training–Meaning and Methods of Tactical Training

#### Unit – IV Training programming and planning

• Periodization–Meaning and types of Periodization

 $_{\odot}$  Aim and Content of Periods–Preparatory, Competition, Transitional etc.  $_{\odot}$  Planning–Training session

o Talent Identification and Development

#### **Reference:**

Dick, W. F. (1980).*Sports training principles*.London: Lepus Books. Harre, D.(1982).*Principles of sports training*.Berlin: Sporulated.

Jensen, R. C.& Fisher, A.G. (1979). *Scientific basis of athletic conditioning*. Philadelphia: Lea and Fibiger, 2<sup>nd</sup>Edn.

Kanwar, R.C. (1999) Scientific Methods of Training and Coaching. Nagpur: Amit Brothers Publications

Matvyew, L.P. (1981).*Fundamental of sports training.* Moscow: Progress Publishers. Singh, H. (1984).*Sports training, general theory and methods*.Patials: NSNIS. Uppal, A.K., (1999).*Sports Training*.New Delhi: Friends Publication.

# Semester III

# **Theory Courses**

# **CC-302 COMPUTER APPLICATIONS IN PHYSICAL EDUCATION**

#### Unit – I: Introduction to Computer

- Meaning, need and importance of information and communication technology (ICT). Application of Computers in Physical Education
- o Components of computer, input and output device
- Application software used in Physical Education and sports

#### Unit – II: MS Word

• Introduction to MS Word

oCreating, saving and opening a document o

Formatting Editing features Drawing table,

 $\circ~$  page setup, paragraph alignment, spelling and grammar check printing option, inserting page number, graph, footnote and notes

#### Unit - III: MS Excel

**o** Introduction to MS Excel

oCreating, saving and opening

spreadsheetocreating formulas

 $\circ\,$  Format and editing features adjusting columns width and row height understanding charts.

# **Unit – IV: MS Power Point**

- Introduction to MS Power Point
- Creating, saving and opening a ppt. file

 $\circ \text{format}$  and editing features slide show , design , inserting

slide numberopicture ,graph ,table

• Preparation of Power point presentations

#### **Referances:**

Irtegov, D. (2004). Operating system fundamentals. Firewall Media.

Marilyn, M.& Roberta, B.(n.d.). Computers in your future. 2nd edition, India: Prentice

Hall. Milke, M.(2007). Absolute beginner's guide to computer basics. Pearson Education

Asia.Sinha, P. K. &Sinha, P. (n.d.).Computer fundamentals.4th edition, BPB Publication.

# Semester – III

# **Theory Courses**

# CC-303 SPORTS PSYCHOLOGY AND SOCIOLOGY

#### **Unit -I: introduction**

 Meaning, Importance and scope of Educational and Sports
 PsychologyoGeneral characteristics of Various Stages of growth and development

- Types and nature of individual differences; Factors responsible -Heredity And environment
- $\circ\,$  Psycho-sociological aspects of Human behavior in relation to physical education and sports

# **Unit-II: Sports Psychology**

 $_{\odot}$  Nature of learning, theories of learning, Laws of learning,  $_{\odot}$   $_{\odot}$ 

Plateau in Learning; & transfer of training

 $\circ$ Meaning and definition of personality, characteristics of personality,  $\circ$ 

Dimension of personality, Personality and Sports performance

 $\circ~$  Nature of motivation: Factors influencing motivation; Motivation and techniques and its impact on sports performance.

oMental Preparation Strategies: Attention focus, Self- talk, Relaxation,

Imaginary.oAggression and Sports, Meaning and nature of anxiety, Kinds of anxiety

 $\circ~$  Meaning and nature of stress; Types of stress, Anxiety, Stress, Arousal and their effects on sports performance

Unit-III: Relation between Social Science and Physical Education.

**oOrthodoxy, customs, Tradition and Physical Education.** 

- Festivals and Physical Education.
- Socialization through Physical Education.
- $\circ\,$  Social Group life, Social conglomeration and Social group, Primary group and Remote group.

# Unit- 4 Culture : Meaning and

Importance. oFeatures of

culture,  $\circ~$  Importance of culture.

- Effects of culture on people life style.
- $\circ~$  Different methods of studying Observation/ Inspection method, Questionnaire method, Interview method

#### **References:**

Ball, D. W. & Loy, J. W. (1975). Sport and social order; Contribution to the

sociology ofsport.London: Addison Wesley Publishing Co., Inc.

Blair, J.& Simpson, R.(1962). Educational psychology, New York: McMillan Co. Cratty,

B. J.(1968). *Psychology and physical activity*. Eaglewood Cliffs. Prentice Hall.

- Kamlesh, M.L. (1998). *Psychology inphysical education and sport*. New Delhi:Metropolitan Book Co.
- Loy, J. W., Kenyon, G. S. & McPherson, B. D. (1978).Sport and social system. London: Addison Wesley Publishing Company Inc.
- Kanwar, R.C. (2014) Sports Psychology. Nagpur: Amit Brothers Publications
- Budhe, A. ,Agrawal, K (2013) Educational and Sports Psychology.Delhi; Sports Publications
- Loy, J. W., Kenyon, G. S. & McPherson, B. D. (1981). Sports culture and society. Philadelphia: Lea & Febiger.
- Mathur, S.S., (1962). Educational psychology.Agra. Vinod Pustak Mandir. Skinnner,
- C. E., (1984.). *Education psychology*. New Delhi: Prentice Hall of India.
- William, F. O.&Meyer, F. N. (1979). A handbook of sociology. New Delhi: Eurasia Publishing House Pvt Ltd.

# Semester – III

# **Theory Courses**

# EC-301 SPORTS MEDICINE, PHYSIOTHERAPY AND REHABILITATION (ELECTIVE)

# **Unit-I: - Sports Medicine:**

- Sports Medicine: Meaning, Definition, Aims, Objectives, Modern Concepts and Importance.
- Athletes Care and Rehabilitation: Contribution of Physical Education Teachers and Coaches.

 $_{\odot}$ Need and Importance of the study of sports injuries in the field of Physical Education  $_{\odot}$ Prevention of injuries in sports–Common sports injuries–Diagnosis–

 First Aid - Treatment - Laceration – Blisters – Contusion - Strain – Sprain – Fracture – Dislocation and Cramps – Bandages – Types of Bandages – trapping and supports.

# **Unit-II: Physiotherapy**

 Definition – Guiding principles of physiotherapy, Importance of physiotherapy, Introduction and demonstration of treatments - Electrotherapy – infrared rays – Ultraviolet rays –short wave diathermy – ultrasonic rays.

# Unit-III: Hydrotherapy:

 Introduction and demonstration of treatments of Cry therapy, Thermo therapy, Contrast Bath, Whirlpool Bath – Steam Bath – Sauna Bath – Hot Water Fomentation – Massage: History of Massage – Classification of Manipulation (Swedish System) physiological Effect of Massage.

#### **Unit-IV: Therapeutic Exercise:**

- Definition and Scope Principles of Therapeutic Exercise Classification, Effects and uses of Therapeutic exercise – passive Movements (Relaxed, Forced and passive - stretching) – active movements (concentric, Eccentric and static) application of the therapeutic exercise: Free Mobility Exercise – Shoulder, Elbow – Wrist and Finger Joints
  - Hips, Knee, ankle and Foot joints Trunk. Head and Neck exercises.

# **References:**

Christine, M. D., (1999). Physiology of sports and exercise.USA: Human Kinetics.

Conley, M. (2000). *Bioenergetics of exercise training*. In T.R. Baechle, & R.W. Earle, (Eds.), Essentials of Strength Training and Conditioning (pp. 73-90). Champaign, IL: Human Kinetics.

David, R. M. (2005). Drugs in sports, (4th Ed). Routledge Taylor and Francis Group.

Hunter, M. D. (1979). A dictionary for physical educators. In H. M. Borrow & R. McGee, (Eds.), A

Practical approach to measurement in Physical Education (pp. 573-74). Philadelphia: Lea &Febiger.

Jeyaprakash, C. S., Sports Medicine, J.P. Brothers Pub., New Delhi, 2003.

Khanna, G.L., (1990). *Exercise physiology & sports medicine*. Delhi:Lucky Enterprises. Mathew, D.K. & Fox, E.L, (1971).*Physiological basis of physical education and athletics*. Philadelphia:W.B. Saunders Co.

Pandey, P.K., (1987). Outline of sports medicine, New Delhi: J.P. Brothers Pub.

Williams, J. G. P. (1962). Sports medicine. London: Edward Arnold Ltd.

# Semester - III

# **Theory Courses**

# EC-302 CURRICULUM DESIGN

# (Elective) UNIT-I Modern concept of the curriculum

- Need and importance of curriculum, Need and importance of curriculum development, the role of the teacher in curriculum development.
- Factors affecting curriculum Social factors Personnel qualifications Climatic consideration - Equipment and facilities -Time suitability of hours.
- o National and Professional policies, Research finding

#### UNIT-II Basic Guide line for curriculum construction; contest (selection and expansion).

- Focalization
- Socialization
- o Individualization
- Sequence and operation
- Steps in curriculum construction.

#### UNIT-III Curriculum-Old and new concepts, Mechanics of curriculum planning.

- Basic principles of curriculum construction.
- o Curriculum Design, Meaning, Importance and factors affecting curriculum design.
- $\circ~$  Principles of Curriculum design according to the needs of the students and state and national level policies.
- o Role of Teachers

#### UNIT-IV Under-graduate preparation of professional preparation.

• Areas of Health education, Physical education and Recreation.

○Curriculum design-Experience of Education, Field and Laboratory.○Teaching practice.

• Professional Competencies to be developed-Facilities and special resources for library, laboratory and other facilities.

#### **Reference:**

- Barrow, H. M. (1983). *Man and movement: principles of physical education*. Philadelphia: Lea and Febiger.
- Bucher, C. A. (1986). Foundation of physical education: St. Louis: The C. V. Mosby & Company.
- Cassidy, R. (1986). *Curriculum development in physical education*. New York: Harper & Company.

- Cowell, C.C. & Hazelton, H.W. (1965).*Curriculum designs in physical education.* Englewood Cliffs: N.J. prentice Hall Inc.
- Larson, L.A. (n.d.). *Curriculum foundation in physical education.* Englewood Cliffs: N.J. Prentice Hall Inc.
- Underwood, G. L. (1983). *The physical education curriculum in secondary school: planningand implementation*.England: Taylor and Francis Ltd.
- Willgoose, C.E. (1979). *Curriculum in physical education*. 3<sup>rd</sup> Ed. Englewood Cliffs.: N.J. Prentice Hall, Inc.

#### Semester – IV

#### **Theory Courses**

# CC-401 MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION

# **Unit- I Introduction to Test & Measurement & Evaluation**

 $\circ\,$  Meaning of Test & Measurement & Evaluation in Physical Education  $\circ$  Need & Importance of Test & Measurement & Evaluation in Physical Education  $\circ\,$  Principles of Evaluation

#### Unit- II Criteria; Classification and

Administration of test  ${\rm o}$  Criteria of good Test

- $\circ\;$  Criteria of tests, scientific authenticity (reliability, objectivity, validity and availability of norms)
- o Type and classification of Test

 $_{\odot}\,$  Administration of test, advance preparation–Duties during testing–Duties after testing.

**Unit- III Physical Fitness** 

Tests  $_{\odot}$  AAHPER youth fitness test

National physical Fitness
 TestoIndiana Motor

**Fitness Test** 

 $\circ$  JCR test

o U.S Army Physical Fitness Test

# **Unit- IV Sports Skill Tests**

Lockhart and McPherson
 badminton test 

 Johnson
 basketball test

○McDonald
 soccer test ○

S.A.I volleyball test o S.A.I Hockey test

#### **References:**

Bangsbo, J. (1994). Fitness training in football: A scientific approach. Bagsvaerd,

Denmark: Ho+Storm.

- Barron, H. M., &Mchee, R. (1997). *A practical approach to measurement in physical education*. Philadelphia: Lea and Febiger.
- Barron, H.M. & Mchee, R. (1997). A Practical approach to measurement in physical education. Philadelphia: Lea and Febiger.

- Awasare, Vivek G. & Joshi, A.R. (2015) Test, Measurement & Evaluation in Physical Education, Nagpur : Amit Brothers Publications
- Charde, S.K., Hussain, Showkat & Kanwar, A.R. (2013) Test, Measurement and Evaluation in Physical Education, Nagpur: Amit Brothers Publications
- Kansal, D.K. (1996). *Test and measurement in sports and physical education*. New Delhi: D.V.S. Publications.
- Mathews, D.K., (1973). Measurement in physical education, Philadelphia: W.B.SoundersCompnay.
- Pheasant, S. (1996). *Body space: anthropometry, ergonomics and design of work*. Taylor & Francis, New York.
- Phillips, D. A., &Hornak, J. E. (1979). *Measurement and evaluation in physical education*. New York: John Willey and Sons.
- Sodhi, H.S., &Sidhu, L.S. (1984).*Physique and selection of sports- a kinanthropometric study*. Patiala: Punjab Publishing House.

# Semester – IV

#### **Theory Courses**

# CC-402 KINESIOLOGY AND BIOMECHANICS

#### Unit – I Introduction to Kinesiology and Sports Biomechanics

- o Meaning and Definition of Kinesiology and Sports Biomechanics
- Importance of Kinesiology and Sports Biomechanics to Physical Education Teacher, Athletes and Sports Coaches.
- Terminology of Fundamental Movements
- $\circ~$  Fundamental concepts of following terms Axes and Planes, Centre of Gravity, Equilibrium, Line of Gravity

# **Unit – II Fundamental Concept of Anatomy and**

Physiology  $\circ$  Classification of Joints and Muscles

- **o** Types of Muscle Contractions
- Posture–Meaning, Types and Importance of good posture.
- $\circ\,$  Fundamental concepts of following terms- Angle of Pull, All or None Law, Reciprocal Innovation

#### **Unit – III Mechanical Concepts**

 $\circ$ Force - Meaning, definition, types and its application to sports activities  $\circ$ 

Lever - Meaning, definition, types and its application to human body. • Newton's Laws of Motion–Meaning, definition and its application to sports

activities.oProjectile–Factors influencing projectile trajectory.

# **Unit – IV Kinematics and Kinetics of Human Movement**

- Linear Kinematics–Distance and Displacement, speed and velocity, Acceleration
- Angular kinematics Angular Distance and Displacement, Angular Speed and velocity, Angular Acceleration.

oLinear Kinetics-Inertia, Mass, Momentum,

Friction.oAngular Kinetics-Moment of inertia ,Couple,

# Stability.

# **Reference:**

Bunn, J. W. (1972). *Scientific principles of coaching.* Englewood Cliffs, N.J.: Prentice Hall Inc. Hay, J. G. & Reid, J. G.(1982). *The anatomical and mechanical basis of human motion.* Englewood Cliffs, N.J.: prentice Hall Inc.

- Hay, J. G. & Reid, J. G.(1988). *Anatomy, mechanics and human motion.* Englewood Cliffs, N.J.: prentice Hall Inc.
- Hay, J. G. (1970). *The biomechanics of sports techniques*. Englewood Cliffs, N.J.: Prentice Hall, Inc.
- Madiwale, M.S. (2014) Kinesiology. Nagpur: Amit Brothers Publications
- Choudhary, S., Awasare, V., Datarkar, V., Bhadra, T.(2015) Kinesiology/Biomechanics made Easy. Sholapur (M.S.) WizcraftPublications and Distribution Pvt. Ltd.
- Simonian, C.(1911). *Fundamentalsof sport biomechanics.* Englewood Cliffs, N.J.: Prentice Hall Inc.

# Semester – IV Theory Courses CC-403 RESEARCH AND STATISTICS IN PHYSICAL EDUCATION

# **Unit-I Introduction to Research**

o Definition of Research

 $_{\odot}$  Need and importance of Research in Physical Education and Sports.  $_{\odot}$  Scope of Research in Physical Education & Sports.  $_{\odot}$  Classification of Research

• Research Problem, Meaning of the term, Location and criteria of Selection of Problem, Formulation of a Research Problem, Limitations and Delimitations.

#### **Unit-II Survey of Related Literature**

○Need for surveying related literature.○Literature Sources, Library

Reading

 ○Research Proposal, Meaning and Significance of Research Proposal.○Preparation of Research proposal / project.

 Research Report: A group project is to be undertaken by a small batch of students under the supervision of a teacher, wherein it is expected to survey school facilities of physical education, health assessment programme evaluation, fitness status of the students, staff and other stakeholders etc. and submit the report to the institution.

#### **Unit-III Basics of Statistical Analysis**

- o Statistics: Meaning, Definition, Nature and Importance
- Class Intervals: Raw Score, Continuous and Discrete Series, Class Distribution, Construction of Tables
- Graphical Presentation of Class Distribution: Histogram, Frequency Polygon, Frequency Curve. Cumulative Frequency Polygon, Ogive, Pie Diagram

#### **Unit- IVStatistical Models in Physical Education and Sports**

o Measures of Central Tendency: Mean, Median and Mode-Meaning, Definition,

Importance, Advantages, Disadvantages and Calculation from Group and Ungrouped data

 $_{\odot}$ Measures of Variability: Meaning, importance, computing from group and ungroup data  $_{\odot}$ 

Percentiles and Quartiles: Meaning, importance, computing from group and ungroup data

#### **References:**

Best, J.W. (1963). Research in education. U.S.A.: Prentice Hall.

- Bompa, T. O. &Haff, G. G. (2009).*Periodization: theory and methodology of training,* 5<sup>th</sup>ed. Champaign, IL: Human Kinetics.
- Brown, L. E., &Ferrigno, V. A. (2005). Training for speed, agility and quickness, 2<sup>nd</sup> ed. Champaign, IL: Human Kinetics.

- Brown, L.E. & Miller, J., (2005).*How the training work*. In: Training Speed, Agility, and Quickness. Brown, L.E. & Ferrigno, V.A & Ferrigno, V.A., eds. Champaign, IL: Human Kinetics.
- Carl, E. K., & Daniel, D. A. (1969).Modern principles of athletes training. St. Louis: St. Louis's Mosby Company.
- Clark, H. H., & Clark, D. H. (1975). *Research process in physical education*. Englewood cliffs, New Jersey: Prentice Hall, Inc.
- Garrett, H.E. (1981). *Statistics in psychology and education*. New York: VakilsFeffer and Simon Ltd.

Hussain, Showkat&Kanwar, A.R. (2012) Research Methods in Physical Education. Nagpur: Amit Brothers Publications

Hussain, Showkat&Kanwar, A.R. (2012) Statistics in Physical Education. Nagpur: Amit Brothers Publications

Oyster, C. K., Hanten, W. P., &Llorens, L. A. (1987). Introduction to research: A guide for

thehealth science professional. Landon: J.B. Lippincott Company.

- Thomas, J.R., & Nelson J.K. (2005). *Research method in physical activity*. U.S.A: Champaign, IL: Human Kinetics Books.
- Thomas, J.R., Nelson, J.K. & Silverman, S.J. (2011). Research method in physical activity. U.S.A: Champaign, IL: Human Kinetics Books.

Uppal, A. K. (1990). *Physical fitness: how to develop.* New Delhi: Friends Publication.

Verma, J. P. (2000). A text book on sports statistics. Gwalior: Venus Publications.

# Semester – IV Theory Courses

# EC-401 THEORY OF SPORTS AND GAMES (ELECTIVE)

## **UNIT-I INTRODUCTION**

General Introduction of speciliazed games and sports–  $\circ$ 

Athletics,

o Badminton,

oBasketball, o

Cricket,

- Football,
- **∘Gymnastic,**

Hockey,

- o Handball,
- o Kabaddi,
- o Kho-Kho,
- o Tennis,
- Volleyball and
- o Yoga.

Each game or sports to be dealt under the following heads

 $_{\odot}$  History and development of the Game and Sports  $_{\odot}$   $_{\odot}$ 

Ground preparation, dimensions and

marking  ${\scriptstyle \odot}\textsc{Standard}$  equipment and their

specificationsoEthics of sports and

sportsmanship

## UNIT-II Scientific Principles of coaching: (particular sports and game specific)

 $\circ~$  Motion – Types of motion and Displacement, Speed, Velocity, Acceleration, Distance and Newton's Law of motions.

 $_{\odot}$  Force–Friction, Centripetal and Centrifugal force, Principles

of force. ${\circ}\textsc{Equilibrium}$  and its types

- o Lever and its types
- $\circ$   $\;$  Sports Training–Aims, Principles and characteristics.
- Training load–Components, Principles of load, Over Load (causes and symptoms).

#### UNIT-III Physical fitness components: (particular sports and game specific)

 ○Speed and its types○Strength and its types

 Endurance and its types
 Flexibility and its types

- Coordinative ability and its types
- Training methods: Development of components of physical fitness and motor fitness through following training methods (continuous method, interval method, circuit method, fartlek /speed play and weight training)

## UNIT-IV Conditioning exercises and warming up.

 ○Concept of Conditioning and warming up.○Role of weight training in games and sports.

- $\circ~$  Teaching of fundamental skill & their mastery (technique, tactic and different phases of skill acquisition).
- Recreational and Lead up games
- Strategy–Offence and defense, Principles of offence and defense.

## **References:**

Bunn, J. W. (1968). The art of officiating sports. Englewood cliffs N.J. Prentice Hall.

Bunn, J. W. (1972). Scientific principles of coaching. Englewood cliffs N. J. Prentice

Hall. Dyson, G. H. (1963). The mechanics of athletics. London: University of London

Press Ltd. Lawther, J.D. (1965). *Psychology of coaching.* New York: Pre. Hall.

Singer, R. N. (1972). Coaching, athletic &psychology.New York: M.C. Graw Hill.

## Semester - IV

## **Theory Courses**

## **EC-402 SPORTS MANAGEMENT**

#### Unit-I

 Nature and Concept of Sports
 Management.⊙Progressive concept of Sports management.

○The purpose and scope of Sports
 Management.⊙Essential skills of Sports
 Management.

○Qualities and competencies required for the Sports
 Manager.○Event Management in physical education and sports.

#### Unit-II

 ○Meaning and Definition of leadership○Leadership style and method. ○ Elements of leadership.

- Forms of Leadership.
  - · Autocratic
  - · Laissez-faire
  - Democratic
  - Benevolent Dictator

**OQualities of administrative** 

# leader.oPreparation of administrative leader.

• Leadership and Organizational performance.

#### Unit-III

 ○Sports Management in Schools, colleges and Universities.○Factors affecting planning
 ○Planning a school or college sports
 programme.○Directing of school or college
 sports programme.

- $\circ$   $\;$  Controlling a school, college and university sports programme.
  - · Developing performance standard
  - Establishing a reporting system
  - · Evaluation
  - The reward/punishment system

#### **Unit-IV**

• Financial management in Physical Education & sports in schools, Colleges and Universities.

 $\circ$ Budget–Importance, Criteria of good budget,  $\circ$ 

Steps of Budget making

• Principles of budgeting

#### **REFERENCES:**

Ashton, D. (1968).*Administration of physical education for women*.New York: The Ronal Press Cl. Bucher, C.A. *Administration of physical education and athletic programme.* 7<sup>th</sup> Edition, St. Louis: The C.V. Mosby Co.

- Daughtrey, G. & Woods, J.B. (1976). *Physical education and intramural programmes, organisation and administration*. Philadelphia U.S.A. : W.B. Sounders Cp.
- Earl, F. Z,& Gary, W. B. (1963). *Management competency development in sports* and physicaleducation. Philadelphia: W. Lea and Febiger.

# Part – B Practical Courses Semester – I

# PC - 101 Track and Field:

## **Running Event**

⊙Starting techniques: Standing start, Crouch start and its variations, Proper use of blocks.⊙Finishing Techniques: Run, Through, Forward lunging, Shoulder Shrug

- o Ground Marking, Rules and Officiating
- Hurdles:
  - Fundamental Skills- Starting, Clearance and Landing Techniques.
  - · Types of Hurdles
  - Ground Marking and Officiating.

## **Relays: Fundamental Skills**

◦ Various patterns of Baton Exchange ◦

**Understanding of Relay Zones** 

- o Ground Marking
- Interpretation of Rules and Officiating.

## PC 102

**Gymnastics: Floor Exercise** 

- Forward Roll, Backward Roll, Sideward Roll, different kinds of scales, Leg Split, Bridge, Dancing steps, Head stand, Jumps-leap, scissors leap.
- o Vaulting Horse
- Approach Run, Take off from the beat board, Cat Vault, Squat Vault.

## PC - 102

Swimming: Fundamental Skills

Entry into the pool.
 Developing water balance and

confidenceoWater fear removing drills. oFloating-Mushroom and Jelly fish etc. o

Gliding with and without kickboard.oIntroduction of various strokes

 $_{\odot}$ Body Position, Leg, Kick, Arm pull, Breathing and Co ordination. $_{\odot}$ Start and turns of the concerned strokes.  $_{\odot}$  Introduction of Various Strokes.

• Water Treading and Simple Jumping.

- Starts and turns of concerned strokes.
- Rules of Competitive swimming-officials and their duties, pool specifications, seeding heats and finals, Rules of the races.

## PC – 102

## Shooting Fundamental Skills

 Basic stance, grip, Holding rifle/ Pistol, aiming targetoSafety issues related to rifle shooting

• Rules and their interpretations and duties of officials

(Any one out of three)

#### PC – 103 Indigenous sports:

#### Kabaddi: Fundamental Skills

- Skills in Raiding-Touching with hand, various kicks, crossing of baulk line, Crossing of Bonus line, luring the opponent to catch, Pursuing.
- Skills of Holding the Raider-Various formations, Catching from particular position, Different catches, Luring the raider to take particular position so as to facilitate catching, catching formations and techniques.
- Additional skills in raiding-Bringing the antis in to particular position, Escaping from various holds, Techniques of escaping from chain formation, Combined formations in offence and defense.
- Ground Marking, Rules and Officiating

PC - 103

## Malkhambh and Light Apparatus:

- $\circ\,$  Lathi-Two counts exercises, Four Count exercises, eight count exercises, sixteen count exercises.
- GhatiLezuim-AathAawaaz, Bethakawaaz, AagePaon, Aagekadam, Do pherawaaz, Chaupherawaaz, Kadamtaal, Pavitra, Uchhakpavitra, Kadampavitra.
- Mass P.T. Exercises-Two count, four count and eight count exercises.
- $\circ~$  Hindustani Lezuim-Char Awaaz, EkJagah, Aanti<br/>Lagaav, Pavitra, Do Rukh, Chau<br/>Rukh, Chaurukh<br/>bethak, Momiya.
- Drill and Marching
- Malkhamb-Salaami, Hold, Saadiudi, Bagaludi, Dashrangudi, Bagliudi, Veludi, Soydoro, Phirki, Padmasana, T.Balance, Pataka, Landing.
- Rope Malkhamb-Salaami, PadmasanaChadh, Katibandh1-2, Sadiadhi, Rikebpakkad, Rikebpagniadhi, Kamaradhi, Nakkikasadhi, Kamaradhi, Nakkikasadhi, Urubandhtedhi, Sadibagli, Do hatibagli, Kamarbandhbagli, nakkikasbagli, Dashrang, Hanuman pakad, Gurupakkad, various padmasana, Landing.

#### KhoKho:

- General skills of the game-Running, chasing, Dodging, Faking etc.
- Skills in chasing-Correct Kho, Moving on the lanes, Pursuing the runner, Tapping the inactive runner, Tapping the runner on heels, Tapping on the pole, Diving, Judgement in giving Kho, Rectification of Foul.
- Skills in Running-Zigzag running, Single and double chain, Ring play, Rolling in the sides, Dodging while facing and on the back, fakes on the pole, fake legs, body arm etc, Combination of different skills.
- Ground Marking
- Rules and their interpretations and duties of officials.

PC – 104

#### Dumbells/ Wands/ Hoop/ Umbrella/ Tipri: Fundamentals skills

- Apparatus/ Light apparatus Grip
- Attention with apparatus/ Light apparatus
- Stand-at-ease with apparatus/ light apparatus
- $\circ~$  Exrcise with verbal command,drum, whistle and music Two count, Four count, Eight count and Sixteen count.
- o Standing Exercise
- $\circ$  Jumping Exercise
- Moving Exercise
- Combination of above all

Semester -

II PC - 201

**Track and Field** 

Athletics: Jumping Events

**•High Jump (Straddle Roll)** 

- Approach Run,
- o Take off

○ Clearance over the bar. ○Landing

**Gymnastics:** 

• Parallel Bar:

Mount from one bar
 Straddle walking on parallel
 bars.oSingle and double step walk

• Perfect swing oShoulder stand on one bar and roll forward.oRoll side • Shoulder stand **○Front on back vault to the side(dismount) ○** Horizontal /Single Bar: o Grip 0 Swings oFundamental Elementso Dismount oUneven Parallal Bar: o Grip  $\circ$  Swings • Fundamental Elements 0 Dismount PC - 202

Yoga:

- o SuryaNamaskara,
- Pranayams
- o CorrectiveAsanas
- o Kriyas
- Asanas
  - · Sitting
  - · Standing
  - · Laying Prone Position,
  - Laying Spine Position

Swimming:

## Introduction of water polo game

**○Fundamental skills ○** 

#### Swimm with the ball $\circ$

Passing

- Catching
- $\circ$  Shooting
- Goal keeping
- Rules of the games and responsibility of officials Introduction of Diving sports.
- Basic Diving Skills from spring boards
- Basic Diving Skills from platform

PC - 202

**Aerobics: Introduction of Aerobics** 

 $\circ~$  Rhythmic Aerobics - dance

 $\circ \textbf{Low} \text{ impact aerobics } \circ$ 

High impact aerobics  ${\rm o}$ 

Aerobics kick boxing

- Postures–Warm up and cool down
- THR Zone Being successful in exercise and adaptation to aerobic workout.

PC - 203

## **Badminton: Fundamental Skills**

Racket parts, Racket grips,

Shuttle Grips.oThe basic stances.

- $\circ\,$  The basic strokes-Serves, Forehand-overhead and underarm, Backhand-overhead and underarm
- $\circ \quad \text{Drills and lead up games}$

 $\circ \textsc{Types}$  of games-Singles, doubles, including mixed

doubles.oRules and their interpretations and duties of officials.

## **Table Tennis: Fundamental Skills**

- The Grip-The Tennis Grip, Pen Holder Grip.
- Service-Forehand, Backhand, Side Spin, High Toss.
- o Strokes-Push, Chop, Drive, Half Volley, Smash, Drop-shot, Balloon, Flick Shit, Loop Drive.
- $\circ~$  Stance and Ready position and foot work.
- Rules and their interpretations and duties of officials.

## PC - 203

#### Squash Fundamental Skills

Service- Under hand and Over hand
 Service Reception
 Shot- Down the line, Cross Court
 Drop

- Half Volley
- Tactics–Defensive, attacking in game
- Rules and their interpretations and duties of officials.

# PC - 203

Tennis: Fundamental Skills.

- $\circ~$  Grips- Eastern Forehand grip and Backhand grip, Western grip, Continental grip, Chopper grip.
- Stance and Footwork.

 Basic Ground strokes- Forehand drive, Backhand drive.
 Basic service.

• Basic Volley.

oOver-head

- Volley.oChop
- Tactics-Defensive, attacking in game
- $\circ$   $\;$  Rules and their interpretations and duties of officials.

## Semester – III

## PC - 301

# Track and fields (Throwing Events)

○ Discus Throw, Javelin, Hemmer throw, shot-put
 ○Basic Skills and techniques of the Throwing events
 ○ Ground Marking / Sector Marking
 ○Interpretation of Rules and
 Officiating.○Grip

Officiating.oGrip

- Stance
- o Release
- Reserve/ (Follow through action)
- Rules and their interpretations and duties of officials

PC - 302

#### Boxing: Fundamental Skills

o Player stance

○Stance - Right hand stance, left hand stance.○Footwork–Attack, defense.

- Punches–Jab, cross, hook, upper cut, combinations.
- $\circ\,$  Defense slip–bob and weave, parry/block, cover up, clinch, counter attack  $\,\circ\,$

Tactics–Toe to toe, counter attack, fighting in close, feinting  $\odot$  Rules and their interpretations and duties of officials.

PC - 302

Martial Arts/Karate: Fundamental Skills

- Player Stances-walking, hand positions, front-leaning, side-fighting.
- Hand Techniques Punches (form of a punch, straight punch, and reverse punch), Blocks (eight basic).

 $_{\odot}$ Leg Techniques - Snap kicks, stretching straight leg, thrust kicks, sidekicks, round house. $_{\odot}$ Forms - The first cause Katas.

- $\circ~$  Self Defense against punches, grabs and strikes, against basic weapons (knife, club sticks).
- Sparring One step for middle punch, high punch and groin punch. (Defended by appropriate block from eight basic blocks).
- Rules and their interpretations and duties of officials.

#### Taekwondo Fundamental Skills

- Player Stances-walking, extending walking, L stance, cat stance.
- Fundamental Skills–Sitting stance punch, single punch, double punch, triple punch.
- $\circ~$  Punching Skill from sparring position front-fist punch, rear fist punch, double punch, and four combination punch.
- Foot Tenchniques (Balgisul) standing kick (soseochagi), Front kick (AP chagi), Arc kick (BandalChagi), Side kick, (YeopChagi), Turning kick (DollyoChagi), Back kick (Twit Chagi), Reverse turning kick (BandaeDollyoChagi), Jump kick (TwimyoChagi),
- Poomsae (Forms) Jang, Yi Jang, Sam Jang, Sa Jang, O Jang, Yook Jang, Chil Jang, Pal Jang (Fundamental Movement eye control, concentration of spirit, speed control, strength control, flexibility, balance, variety in techniques)
- Sparring (Kyorugi) One Step Sparring (hand techniques, foot techniques, self defense techniques, combination kicks), Free Sparring.

○Board Breaking (Kyokpa)–eye control, balance, power control, speed, point of attack.○Rules and their interpretations and duties of officials.

## PC - 302

#### Judo: Fundamental skills

• Rei (Salutation)-Ritsurei(Salutation in standing position), Zarai (Salutation in the sitting position)

 $_{\odot}$ Kumi kata (Methods of holding judo costume)  $_{\odot}$ 

Shisei (Posture in Judo)

 $_{\odot}$ Kuzushi (Act of disturbing the opponent posture)  $_{\odot}$ 

Tsukuri and kake (Preparatory action for attack)

- Ukemi (Break Fall)-UrhiroUkemi (Rear break Fall), Yoko Ukemi (Side Break Fall), Mae Ukemi (Front Break Fall), Mae mawariUkemi (Front Rolling break fall)
- Shin Tai (Advance or retreat foot movement)-Suri-ashi (Gliding foot), Twugi-ashi (Following footsteps), Ayumi-ashi (Waling steps.
- TaiSabaki (Management of the body)
- NageWaze (Throwing techniques)-HizaGuruma (Knee wheel), SesaeTwurikomiashi (Drawing ankle throw), De ashihari (Advance foot sweep), O Goshi (Major loinm), SeoiNage (Shoulder throw).
- Katamawaze(Grappling techniques)-Kesagatame (Scaff hold), Kata gatame (Shoulder hold), Kami shihogatama (Locking of upper four quarters), Method of escaping from each hold.

## Wrestling: Fundamental Skills

○ Take downs, Leg tackles, Arm drag. ○Counters for take downs, Cross face, Whizzer series.○Escapes from under-sit-out turn in tripped.

- Counters for escapes from under-Basic control back drop, Counters for stand up.
- Pinning combination-Nelson series(Half Nelson, Half Nelson and Bar arm), Leg lift series, Leg cradle series, Reverse double bar arm, chicken wing and half Nelson.

 $\circ$ Escapes from pining: Wing lock series, Dopuble arm lock roll, Cridge. $\circ$ Standing Wrestling-Head under arm series, whizzer series  $\circ~$  Referees positions.

PC - 302

## Fencing: Fundamental Skill

 $\circ$ Basic Stance - on-guard position (feet and legs)  $\circ$ 

Footwork-advance, retire, lunge, Step-lunge

oGrip-hold a foil correctly, Etiquette-salute and handshake to coaches and partners o

Hit a target (glove, mask, person) at riposte distance

- Lunge from an on-guard position.
- Attack simple attacks from sixte direct, disengage, doublé attack, compound attacks high line one-two and cut-over disengage, Cut-over attack, Low line attacks

 $\circ \text{Semi circular parries-octave and septime} \quad \circ$ 

Understand the layout of a

piste. oCompound or

successive parries.oLateral

parry and direct riposte

- Fence a bout-judges etc. salutes and handshakes
- Rules and their interpretations and duties of officials.

#### PC 303 Team Games

## PC 303

## **Base Ball Fundamental Skills**

 Player Stances-walking, extending walking, L stance, cat stance.oGrip-standard grip, choke grip,

Batting-swing and bunt.oPitching $\circ~$  Baseball : slider, fast pitch, curve ball, drop ball, rise ball, change up, knuckle ball, screw ball,

oSoftball: windmill, sling shot, o starting position: wind up, set.oFielding–

oCatching: basics to catch fly hits, rolling hits, o

Throwing: over arm, side arm.

- o Base running-
  - Base running: single, double, triple, home run,
  - Sliding: bent leg slide, hook slide, head first slide.
- Rules and their interpretations and duties of officials.

## PC 303

#### Netball: Fundamental Skills

- o Catching: one handed, two handed, with feet grounded, in flight.
- Throwing (different passes and their uses): one handed passes (shoulder, high shoulder, underarm, bounce, lob); two handed passes (push, overhead, bounce).

oFootwork: landing on one foot; landing on two feet; pivot; running

pass.oShooting: one hand; two hands; forward step shot; backward step shot.

- $\circ~$  Techniques of getting free: dodge and sprint; sudden sprint; sprint and stop; sprinting with change of speed.
- Defending: marking the player; marking the ball; blocking; inside the circle; outside the circle (that is, defending the circle edge against the pass in).

#### oIntercepting: pass;

shot.oThe toss-up.

- Role of individual players
- Rules and their interpretations and duties of officials.

#### PC - 303

Cricket: Fundamental Skills

**oBatting-Forward and backward defensive stroke** o

Bowling-Simple bowling techniques •Fielding-Defensive and offensive fielding • Catching-High catching and Slip catching •

Stopping and throwing techniques • Wicket keeping techniques

## PC 303

## Football: Fundamental Skills

- o Kicks-Inside kick, Instep kick, Outer instep kick, lofted kick
- $\circ\,$  Trapping-trapping rolling the ball, trapping bouncing ball with sole  $\,\,\circ\,$

Dribbling-With instep, inside and outer instep of the foot.  $_{\odot}$  Heading-From standing, running and jumping. $_{\odot}$ Throw in

 ○Feinting-With the lower limb and upper part of the body.○Tackling-Simple tackling, Slide tackling.

o Goal Keeping-Collection of balls, Ball clearance-kicking, throwing and deflecting.

PC 303

Hockey: Fundamental Skills

○Player stance &
 Grip⊙Rolling the
 ball ⊙Dribbling ○
 Push

oStopping

- o Hit
- o Flick

o Scoop

 $_{\odot}$  Passing–Forward pass, square pass, triangular pass, diagonal pass, return pass,  $_{\odot}~$  Reverse hit

o **Dodging** 

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○Goal keeping–Hand defence, foot defence ○
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Positional play in attack and defense. oRules and their interpretations and duties of

officials.oRules and their interpretations and duties of officials.

O Ground Marking.

PC - 303

#### Softball Fundamental Skills

- o Catching: one handed, two handed, with feet grounded, in flight.
- Throwing (different passes and their uses): one handed passes (shoulder, high shoulder, underarm, bounce, lob); two handed passes (push, overhead, bounce).

oFootwork: landing on one foot; landing on two feet; pivot; running

pass.oShooting: one hand; two hands; forward step shot; backward step shot.

- $\circ\,$  Techniques of getting free: dodge and sprint; sudden sprint; sprint and stop; sprinting with change of speed.
- Defending: marking the player; marking the ball; blocking; inside the circle; outside the circle (that is, defending the circle edge against the pass in).

Intercepting: pass;

shot.oThe toss-up.

- $\circ \quad \text{Role of individual players} \\$
- Rules and their interpretations and duties of officials.

#### PC 303

#### **Volleyball: Fundamental Skills**

 $_{\odot}$  Players Stance-Receiving the ball and passing to the team mates,  $_{\odot}\,$  The Volley (Over head pass),

- The Dig(Under hand pass).
- o Service-Under Arm Service, Side Arm Service, Tennis Service, Round Arm Service.
- Rules and their interpretations and duties of officials. PC 303

Hand Ball:

- Fundamental Skills-Catching, Throwing, Ball Control, Goal Throws-Jump Shot, Centre Shot, Dive Shot, Reverse Shot, Dribbling-High and Low, Attack and Counter Attack, Simple Counter Attack, Counter Attack from two wings and centre, Blocking, Goal keeping, Defense.
- Rules and their interpretations and duties of officials.

#### PC - 303

#### **Basket ball: Fundamental Skills**

- Player stance and ball handling
- $\circ~$  Passing-Two Hand chest pass, Two hand Bounce Pass, One Hand Base ball pass, Side Arm Pass, Over Head pass, Hook Pass.
- $\circ~$  Receiving-Two Hand receiving, One hand receiving, Receiving in stationary position, Receiving while jumping, Receiving while running.
- $\circ~$  Dribbling-How to start dribble, How to drop dribble, High dribble, Low dribble, Reverse dribble, Rolling dribble.
- $\circ~$  Shooting-Layup shot and its variations, one hand set shot, One hand jump shot, Hook shot, Free throw.

**o**Rebounding-Defensive rebound, Offensive rebound, Knock out, Rebound

Organization.olndividual Defensive-Guarding the man with the ball and without the ball.

- **Pivoting.**
- Rules and their interpretations and duties of the officials.

**TP – 201 Teaching practices:** 

10 teaching practice lessons out of which 5 lessons in class-room situation and 5

lessons for out-door activities within premises on the students of B.P.Ed course.

**TP – 301 Teaching practices:** 

10 teaching lesson plans for Racket Sport/ Team Games/ Indigenous Sports out

of which 5 lessons internal and 5 lessons external at school.

TP – 401 Sports Specialization: Track and field / Gymnastics / Swimming (4 internal lesson at practicing school and 1 final external lesson on the students of

practicing school as a sports specialization of any discipline mentioned above.)

TP- 402 Games Specialization: Kabaddi, Kho-kho, Base ball, cricket, Football, Hockey, Softball Volleyball, Handball, Basketball, Netball, Badminton, Table Tennis, Squash, Tennis

(4 internal lesson at practicing school and 1 final external lesson on the students of

practicing school as a games specialization of any discipline mentioned above.)

Note: Where ever details of any activities are not mentioned, it is expected to elaborate skills by the competent bodies of local Universities.