Semester – I 7580101

ENGLISH - I

Unit- I

Poetry: Harmony, ED. K.TRIPATHY - PUB. OUP, CHENNAI.

1. Wordsworth: Solitary Reaper

2. Robert Frost : Stopping by Woods on a Snowy Evening

3. Masefield : Sea Fever

4. Shakespeare : All the World is a Stage

5. Hugh Clough : Say Not the Struggle Naught Availeth

Unit- II

Short Stories: Popular Short Stories ED. Board OF EDITORS - PUB. OUP, CHENNAI.

1. Katherine Mansfield : A cup of tea

2. V.M. Basheer : The World Renowned Nose

3. R.K. Narayan : The Gateman's Gift

4. Leo Tolstoy : How Much Land Does a Man Need?

Unit-III

Plays: Tales from Shakespeare, Published By Madhuban Educational Books, UBS Publishers & Distributors, New Delhi.

- 1. The Merchant of Venice
- 2. Macbeth
- 3. Twelfth Night
- 4. King Lear

Unit- IV

Grammar: Form And Function, By V. Sasikumar & V. Syamala, Emerald Publishers, Chennai-8.

- 1. Statements and Questions
- 2. Determiners including Articles
- 3. Conjunctions and other Devices

Unit- V

Composition: Communication Skills For Undergraduates, Dr. T.M. Farhathulah, RBA Publications, Chennai

- 1. Letter Writing
- 2. Telegrams
- 3. Advertisements

Semester - I 7580102

FOUNDATIONS AND HISTORY OF PHYSICAL EDUCATION

Unit - I

- a. Meaning and definition of education and physical education.
- b. Physical training and physical Culture.
- c. Aims and objectives of physical education –development of physical, mental, social, emotional aspects and neuromuscular co-ordination.

Unit - II

- a. Biological foundations of physical education Muscle tone, Athletic Heart, Vital capacity, Reciprocal Innervations and Unsynchronized development.
- b. Chronological, Anatomical, Physiological and Mental ages
- c. Body types -Sheldon and Kretchmer classification
- d. Differences between male and female during adolescence.

Unit - III

- a. Learning Process Theories of learning– Trial and error learning, Conditioned Response theory and Insightful learning theory.
- b. Laws of Learning- Readiness, Exercise, Effect, Frequency, Regency and Intimacy.
- c. Leaning curve.
- d. Kinds of Learning Primary, Associate and concomitant learning.

Unit - IV

History of Physical Education and Sports

- a. History of Physical Education in Sparta and Athens
- b. Olympic Games Ancient and Modern-Origin Organization and conduct of the game.
- c. Olympic Flag, Torch, Oath, Emblem and Motto The Marathon Race.

Unit - V

- a. Y.M.C.A and its contributions.
- b. Recent developments in India-SNIPES, NSNIS, SAI, All India council of sports. National Physical Efficiency Drive.
- c. National and International competitions Asian Games, SAF, SGF, RDS, and BDS.
- d. Awards and Scholarships Arjuna Award, Dhronochariya Award, Maulana Abdul Kalam Azad Award, Rajiv Gandhi Khel Retna Award and Dayand Chand Award.

- 1. Bucher, Charles A. and Wuest, Deborch A. (1992), Foundations of Physical education and sport (11th edn) New Delhi: B1 publication Private limited.
- 2. Jackson Sharma, "Modern principles of physical education" A. Barnes & co, New York.
- 3. M.L. Kamalesh "History and principles of Physical education.

Semester – I 7580103

ANATOMY, PHYSIOLOGY AND SUBSTANCE USE DISORDERS

Unit - I

- a. Meaning of Anatomy and Physiology.
- b. Need and Importance of Anatomy and Physiology for Physical Education and Sports.
- c. Cell Structure and Functions of Various Parts of the Cell.
- d. Blood Clotting of Blood Blood Groups.

Unit - II

Digestive System

Mouth - Tongue - Teeth - Salivary Glands - Pharynx - Esophagus - Abdominal Cavity and its Contents - Stomach - Small Intestine - Large Intestine - Rectum and Anus.

Unit - III

- a. Cardio Vascular System Structure and Functions of Heart.
- b. Respiratory System Structure of Lungs and Mechanism of Respiration
- c. Muscular System and its Types
- d. Nervous System Structure and Function of Brain and Spinal Cord, Reflex arc.
- e. Skeleton System Classification of Bones and Joints

Unit - IV

Endocrine System – Types and their role in Growth, Development and Regulations of Body Functions – Pituitary, Thyroid, Parathyroid, Adrenal and Pancreas Glands.

Unit - V

- a. Alcohol use disorders (Alcoholism)
- b. Tobacco (Smoking and chewing)
- c. Cannabis use disorders (Ganja)

- 1. Chaurasiya, B.D. Human Anatomy, CBS publishing, Delhi 1982
- 2. Chatterge, Chadicharen, human Physiology (vol 1 & vol 2) Medical Allied agency, Calcutta.
- 3. Dr. Murugesan, Anatomy, Physiology and Health Education.

Semester – I 7580104

ENVIRONMENTAL SCIENCE

Unit – I Natural Resource and Ecosystems

Meaning, scope and importance, Need for public awareness. Forest resources: Use and over - exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people. Water resources: Use and over - utilization of surface and ground water, floods, damsbenefits and problems. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer pesticide problems, water logging, salinity, case studies. Energy resources: Growing energy needs, renewable and non-renewable energy sources, case studies. Land resources: Land as a resource, land degradation, soil erosion and desertification. Role of an individual in conservation of natural resources. Concept of an ecosystem. - Structure and function of an ecosystem. - Producers, consumers and decomposers. - Energy flow in the ecosystem. Ecological Succession. Food chains, food webs and ecological pyramids. Introduction, types, characteristic features, structure and function of the following ecosystem. Forest System. Grassland ecosystem. Desert ecosystem. Aquatic ecosystems. (ponds, streams, lakes, rivers, oceans, estuaries)

Unit - II Biodiversity and its conservation

Introduction – Definition: Genetic, Species and eco-system diversity. Biogeographically classification of India. - Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values. - Biodiversity at global, National and local levels. - India as a mega-diversity nation. - Hot – Spots of biodiversity. - Threats to biodiversity: habitat loss, poaching of wildlife, man wildlife conflicts. Endangered and endemic species of India Conservation of biodiversity: Insitu and Ex-situ conservation of biodiversity.

Unit -III Environmental and Noise Pollution

Air pollution. - Water Pollution. - Soil Pollution. - Noise Pollution. - Thermal Pollution. - Thermal Pollution. - Nuclear hazards. - Solid waste management: Causes, effects and control measures of urban and industrial wastes. - Roll of an individual in the prevention of pollution. - Pollution case studies. Disaster Management: Floods, earthquake, cyclone and landslides. Sources - Measurement - effects of noise pollution on human beings, Wild life and non living things, Control of noise pollution

Unit – IV Social issues and the Environment:

From Unsustainable to Sustainable development. - Urban problems related to energy. - Water conservation, rain water harvesting, water-shed management. - Resettlement and rehabilitation of people, its problems and concerns, Case studies. - Environmental ethics: Issues and possible solutions. - Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust, Case studies. - Wasteland reclamation. - Environment Protection Act. - Air (Prevention and Control of Pollution) Act. - Water (Prevention and Control of Pollution) Act. Wildlife Protection Act. Forests Conservation Act. - Issues involved in enforcement of environmental legislation. Public awareness.

Unit – V Population and Field work

Population growth, variation among nations- Population explosion-Family Welfare Programme. - Environment and human health - Human Rights - Value Education - HIV/AIDS - Women and Child Welfare - Role of Information Technology in Environment and human health - Case Studies. Visit to a local area to document environmental assets river, forest, grassland, Hill and mountain. Visit to a local polluted site – Urban, Rural, Industrial and Agricultural. Study of common plants, insects, birds. Study of simple ecosystems – pond, river, hill slopes, etc. (Field work equal to 5 lecture hours)

Semester I 7580105

SAFETY EDUCATION AND FIRST AID

Unit - I

Introduction

- a. Meaning of safety Factors affecting safety.
- b. Need and importance of safety Education for preventing accidents.
- c. Safety in physical Education and Sports with respect to play fields, equipments, dress, etc.

Unit - II

First Aid

- a. The definition and Importance of First Aid.
- b. First Aid for Athletic injuries Open and closed wound.
- c. Types of bleeding and Fracture.

Unit - III

- a. Meaning and Definition of Massage.
- b. Need and importance Indication and Contra Indication of Massage.
- c. Physiological Effect of Massage.
- d. Classification of Massage.

Unit - IV

Therapeutic Modalities

- a. Cryotheraphy ice and cold water, ice pack and ice massage.
- b. Thermotherapy contrast path, whirlpool path and hot water.
- c. Electrotherapy infrared radiation ultra violet micro ware diathermy ultra sound.

Unit - V

Rehabilitation

- a. Meaning and definition of physical rehabilitation goal of rehabilitation various stages of rehabilitation neck, shoulder.
- b. Various stages of rehabilitation Arm, elbow, wrist, hand.
- c. Various stages of rehabilitation hip, thigh, knee, leg, ankle and food.

- 1. The Human Machine, by Adolphe Abraham, penguin Books Pelican Medical Series
- 2. Physiology of Muscular Activity, by Karpovich W.B. Saunders Co.
- 3. Dolan; "Treatment and Prevention of Athletic injuries" The interstate Danville, Illionis.
- 4. Edward Donald, Physiotherapy, Occupational therapy and Gymnastics." London Publishers.

Semester - II 7580201

ENGLISH - II

Unit-I

Poetry: Harmony Ed. K.Tripathy - pub. OUP, Chennai.

1. Milton : On His Blindness

2. G.M.Hopkins : Thou Art Indeed Just, Lord

3. Shelley : Ozymandias

4. W.owen : Anthem for Doomed Youth5. Keats : La Belle Dame Sans Merci

Unit-II

Short Stories: Popular Short Stories ed. Board of editors - pub. OUP, Chennai.

Sir Arthur Conan Doyle : The Dyeing Detective
 Manohar Malgonkar : Monal Hunt

3. Ernest Hemingway : Old Man at the Bridge

4. Guy de Maupassant : The Necklace

Unit-III

Plays: Tales from Shakespeare, published by Madhuban educational books, UBS Publishers & Distributors, New Delhi

- 1. A Midsummer Night's Dream
- 2. Much Ado About Nothing
- 3. Julius Caesar

Unit-IV

Grammar: Form and Function, By V.Sasikumar & V.Syamala, Emerald Publishers, chennai-8.

- 1. The Active and Passive Voice
- 2. Reported Speech
- 3. Conditional Clauses

Unit-V

Composition: Communication Skills for Undergraduates, Dr.T.M.Farhathulah, RBA Publications. Chennai.

- 1. Notices
- 2. Designing a Resume
- 3. Writing a Report

Semester II 7580202

METHODS IN PHYSICAL EDUCATION

Unit - I

Introduction

Meaning of method – Factors influencing Method – Presentation Technique – Teaching Aids - Class Management – Principles of Class Management.

Unit - II

Lesson Plan

- a. Types of various Physical Activities in the field of Physical Education Callisthenic's. Marching, Minor games, Major games, Gymnastics. Defensive arts and swimming.
- b. Lesson Plan- General and Specific Lesson Plan Values of Lesson Plan.

Unit - III

Tournaments

- a. Single knock-out-Seeding-Special seeding.
- b. League Cyclic and stair case method.
- c. Combination tournaments.
- d. Merits and Demerits of Knock-out and League tournaments.

Unit - IV

Competitions

- a. Intramural Competition Objectives Method of organizing and conducting Units for competition intramural Committee.
- b. Extramural competition Benefits Drawbacks Methods of organizing and conducting.

Unit - V

Sports Meet

- a. Sports Meet Standard and Non-standard Method of organizing and conducting sports meet.
- b. Play days Method of organization and conduct.
- c. Programmes of Opening and Closing ceremony of the sports meet.

- 1. Mathew, Donald: Measurement in Physical Education London, W.B. Saunders Co.,
- 2. Clarke H.: Application of Measurement in Health and Physical Education, Prentice Hall Inc. 1967.
- 3. Methods in Physical Education by C.T. & S.H. Karaikudi.

Semester - II 7580203

SCIENCE OF YOGA EDUCATION

Unit - I

Fundamentals of Yoga Education

Yoga – Meaning –Definition – Need and Important – Aim and Objective – Philosophy of Yoga –Suryanamaskar –Astanga Yoga – Modern Development in Yoga,

Unit - II

Yoga Life Style

General Life Style Considerations – Physical, Mental, and Emotional, yoga practice for different stage of life, yoga practice for different kind of disease – diabetic, asthma, headaches, obesity, hypertension and mental illness.

Unit - III

Physiology of Yoga

Definition and meaning of bandhas – mudras – viparitakarani – satkriyas – nadis – ida, pingaiab and sushumna, chakras and kundalini shaki.

Unit - IV

Yoga in Psychology

Mind – origin of mind – types of mind, powers of mind unfolding latest power of mind – consciousness - sub- consciousness – unconsciousness - super consciousness.

Unit - V

Practical's

- a. Surya namaskar
- b. Standing, sitting, supine and prone position asana types.
- c. Pranavama.
- d. Mudras & bandhas.

- 1. Jayanthy Anandapadmanban (2006) "Science of Yoga".
- 2. Rishi Vivekananda (2006) "Practical Yoga Psychology" Munger: Yoga Publication Trust.
- 3. Mangal S.K (1991), "Psychological Foundation of Education", Ludiana: Prakash Brother.
- 4. Iyenkar BKS (1989) Light on Yoga: unwin paper backs.

Semester - II 7080204

PRINCIPALS OF MOTOR DEVELOPMENT

Unit -I

Introduction

- a. Definition-Motor Development, Motor Learning, Moto Control,
- b. Definition-Physical growth, Maturation and Aging-
- c. Newell's Model of Motor Development
- d. Classification of Motor Activities.

Unit-II

Principles of motion and stability

- a. Moving against gravity
- b. Stability and Balance
- c. Using the Principles of motion and stability to detect errors and correct errors
- d. The open kinetic chain

Unit-III

Physical Growth and Aging

- a. Prenatal and Postnatal Development
- b. Development of the Skeletal System
- c. Development of Muscular System
- d. Development of Nervous System

Unit-III

Motor Development

- a. Early Motor Development
- b. Movement of Infant
- c. Motor Milestones
- d. Development of Postural control and balance in Infancy

Unit-IV

Development of Motor Skills

- a. Development of human Locomotion: Creeping, Crawling, Walking and Running
- b. Development of Ballistic Skills: Throwing, Kicking, Punting and Striking
- c. Development of Manipulative Skills: Grasping, Reaching, catching and anticipation.
- d. Development of Postural control and Balance

Unit-V

Exercise and Motor Development

- a. Development of cardio respiratory endurance
- b. Development of Strength
- c. Development of Flexibility
- d. Development of Body Composition

References

- 1. Kathleen M.Haywood and Nancy Getchell., **Life Span motor Development** (5th Ed.,), Champaign, IL: Human Kinetics, 2009.
- 2. Robert M. Malina., Claude Bouchard and oded Bar-Or., **Growth, Maturity and Physical Activity** (2nd Ed.,), Cha
- 3. mpaign, IL: Human Kinetics, 2004.
- 4. NAPSE., **Physical Education for Lifelong Fitness** (2nd Ed.,), Champaign, IL: Human Kinetics, 2005.
- 5. Allen W.Jackson., James R. Morrow., Jr.David W. Hill & Rod K. Dishman., **Physical Activity for Health and Fitness**, Champaign, IL: Human Kinetics, 2004.
- 6. Cratty Bryant, J. **Movement Behaviour and Motor Learning**. Philadelphia Lea & Febiger, 1975.

Semester – II 7580205

GUIDANCE AND COUNCLING

UNIT - I

Personality Development

- a. Concept of Personality.
- b. Self Esteem.
- c. Guidelines on Personality
- d. Developing Good Personality

UNIT - II

Fundamental of Career Rules

- a. Psychological Position
- b. Better Human Relations
- c. Time Management
- d. Qualities of Leaders

UNIT - III

Communication Skills

- a. Meaning of Communication.
- b. Basics of Communication.
- c. Theories of Motivation.
- d. Communication Goals.

UNIT-IV

Students Counseling

- a. Counseling and Psychology.
- b. Objectives and Scope of Student Counseling.
- c. Level of Counseling.
- d. Kinds of counseling techniques.

UNIT - V

Preparation & Presentation

- a. Outline of your Speech and Effect of Pleasant Voice.
- b. Analyzing the Occasion and The Audience and their Psychology.
- c. Speech Plan.
- d. Art of Speaking and Presentation Techniques.

- 1. Abraham, (1995) R. Personality Development, Communication Skills and Public Speaking, Saint Catherine Press, Chennai 1995.
- 2. Guidance and Counseling in India, Atlantic Publication, New Delhi.
- 3. S. Nagewara Rao (2004), "Guidance and Counseling", Discovery Publishing House, New Delhi.

Semester III 7580301

ORGANIZATION, ADMINISTRATION AND SUPERVISION IN PHYSICAL EDUCATION

Unit – I

Organization

Meaning of Organization and Administration. Importance of Organization. Guiding principles of Organization.

Schemes of Health and physical Education in Schools, Colleges. Universities, Districts, States etc.

Unit – II

Facilities and Stands in Physical Education

Playgrounds – outdoor and Indoor – standards for Education Institutions – care and maintenance – problem of lack of play space for schools in crowded cities and their solution – public play grounds.

Construction and Maintenance of Swimming pools and Gymnasium.

Equipment minimum requirement for an Educational Institution – purchase of equipment (Policies and Procedures) care of equipment (general and specific).

Unit - III

Programmers and Records:

Preparation of Time-Table, physical Education and School Time – Table. Before school, after school activities, Types of physical Education periods. Daily periodical and annual schedules.

Office Management:

Maintaining various types of records, registers and reports. Promotion of Physical Education

Unit - IV

Finance and Budget:

Source of Income – approved items of expenditure – Rules for the utilization of Games Fund of physical Education – fund preparation and administration of budget – accounting.

Unit -V

Supervision:

Meaning and Need for Supervision – Guiding Principles of Supervision – Qualities and Qualifications of a Supervisor – Supervisor's Relationship with the Administrator and the Physical Education Teacher.

Techniques of Supervision: Visitation Periodical – Surprise – Request and Social – Visitation Procedure – Report on the Visit – Meeting – Individuals and Groups _ Demonstration for individuals Teachers/ Group Teachers – In service Training – Short term Course – Refresher Course – Clinics – Seminars and Conferences.

- 1. Sachdeva, M.S., A. Modern Approach to School Organisation and Administration, Parkash Brothers Publishers,, Ludhina, 1984.
- 2. Nash Meench and Saurbon. **Organization and Administration of Physical Education,** A.S. Barnes Co.
- 3. Dr. J.P. Thomas, **Organization of Physical Education**, Gnanodaya Press, Madras.

Semester -III 7580302

THEORY OF GAMES - I

Unit - I

Ball Badminton

- a. History and Development. Ground Markings and Measurements Equipments.
- b. System of Officiating Duties of Officials Official Signals and Score Sheet Rules and Interpretations.
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

Unit – II

Cricket

- a. History and Development. Ground Markings and Measurements Equipments.
- b. System of Officiating Duties of Officials Official Signals and Score Sheet Rules and Interpretations.
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

Unit - III

Football

- a. History and Development. Ground Markings and Measurements Equipments.
- b. System of Officiating Duties of Officials Official Signals and Score Sheet Rules and Interpretations.
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

Unit - IV

Kabaddi

- a. History and Development. Ground Markings and Measurements Equipments.
- b. System of Officiating Duties of Officials Official Signals and Score Sheet Rules and Interpretations.
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

Unit - V

Volleyball

- a. History and Development. Ground Markings and Measurements Equipments.
- b. System of Officiating Duties of Officials Official Signals and Score Sheet Rules and Interpretations.
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

- 1. Book of Rules of Games and Sports, National Council of Y.M.C.As. of India, New Delhi, 2005.
- 2. Perinbafaj, S.Bevinson and others, PLAY FIELD: Dimensions and its Requirements, Vinsi Publications, Karaikudi, 2003.
- 3. Buck, H.C, Rules of games and Sports.

Semester - III 7580303

TEST AND MEASUREMENT IN PHYSICAL EDUCATION

Unit - I

Introduction

- a. Meaning and Definition of the terms-Test, Measurement and Evaluation.
- b. Need and Importance of Measurement and Evaluation in Physical Education.
- c. Classification of test.

Unit - II

Criteria and administration

- a. Criteria of test selection-validity, reliability, objectivity, and norms and Administrative feasibility and Educational Application.
- b. Test Administration advance preparation.
- c. Rating scales-Subjective rating and objective rating.

Unit - III

Assessing Physical, Physiological and Anthropometrical Qualities:

- a. Motor Ability, Physical fitness- Components of Physical Education.
- b. Stride length, stride frequency, Elastic power and reaction time.
- c. Resting pulse rate, Respiratory rate, Breath holding time, Vital capacity.
- d. Skin folds measurements.

Unit - IV

Physical fitness test

- a. AAPHERD Youth Fitness test JCR test.
- b. Harward step test. Queen College Step Test.
- c. Barrow Motor Ability test.
- d. Cardio Vascular Test Cooper's 12/9 minutes Run/Walk test.

Unit - V

Skill Test

- a. Basketball Johnson Basketball Ability test
- b. Badminton Miller wall volley test.
- c. Hockey triedal Filed Hockey test.
- d. Soccer McDonald Soccer test.
- e. Volleyball -brady volley ball test.
- f. Tennis Dyer tennis test.

- 1. Clarke H. Harison and David H.Clarke, Application of measurement to Phycial education.
- 2. Barry L. Johnson and jack k. Nelson, practical measurement to Physical Education.
- 3. A. Yobu, Test, Measurement and Evaluation in physical education.

Semester - III 7580304

APPLIED KINESIOLOGY AND BIO-MECHANICS

Unit - I

Introduction

- a. Meaning and Definition kinesiology.
- b. History and Development of Kinesiology.
- c. Importance of Kinesiology for Physical Education.
- d. Joints and their Movement.

Unit - II

- a. Fundamental Axis and Plane.
- b. Muscular Analysis of Motor Movement.
- c. Skeletal Joint Actions and Muscle Participation.
- d. Neuro Muscular Considerations.

Unit – III

- a. Meaning, Definition and Need and importance of Bio-mechanics in the field of Physical Education and Sports.
- b. Kinematics Distance and Displacement Speed and Velocity.
- c. Acceleration and its Types.

Unit - IV

- a. Law of Motion and its Types.
- b. Newton's Laws of Motion.
- c. Equilibrium and its Types.
- d. Force Spin or Magnus Force and its Types.

Unit - IV

Mechanical Analysis of Fundamental Movements

- a. Running
- b. Jumping
- c. Throwing
- d. Pulling
- e. Pushing

- 1. Pual Zllen Neil: "Kinesiology and study of Motion."
- 2. Anderson & McClure: Human kinetics and analysis of body Movements. Willam Hoiken, Londin.
- 3. Murugesan: Study of Kinesiology and Bio-Mechanics.
- 4. Pual Zllen Neil: "Kinesiology and study of Motion."

Semester III 7080305

SPORTS PHYSIOTHERAPY

Unit - I

Introduction

Meaning of Physiotherapy –Role of physiotherapy in protection –Expectations from physiotherapist and patients - Physiotherapy principles guides our practice.

Unit - II

Massage

- a. Massage –Origin meaning definition Principles of Massages Physiological Benefits of Massage.
- b. Swedish Massage and its Classification.

Unit - III

Hydrotherapy

Meaning – treatment method – precaution – advantage and disadvantage of cryotherapy, Thermotherapy, Hot pack, Whirlpool bath and Wax bath – contrast bath.

Unit - IV

Electrotherapy

Meaning –treatment method –precaution –advantage and disadvantage of – infra –red rays, Ultra – violet rays, Ultra – sound waves, shortwave diathermy and Microwave diathermy.

Unit - V

Therapeutic Movement

Voluntary Movement – Free Exercise & its Classification – Assisted Exercise – Assisted Exercise – Resisted Exercise – Resistances.

Involuntary Movement - Reflex Movement - Reflex Arc - Stretch Reflex - Righting Reflex - Postural Reflex and Passive Movement.

- 1. The Human Machine, by Adolphe Abraham, penguin Books Pelican Medical Series
- 2. Physiology of Muscular Activity, by Karpovich W.B. Saunders Co.
- 3. Dolan; "Treatment and Prevention of Athletic injuries" The interstate Danville, Illionis.
- 4. Edward Donald, Physiotherapy, Occupational therapy and Gymnastics." London Publishers.
- 5. James A. Gould III Orthopedic and Sports George j. Davis Physical therapy 1985 C. V. Mosby Company, Toronto.
- 6. Dr. Shyamanand Upkar Guide for NET/ JRF/ SET in Physical Education.

Semester - IV 7580401

RECREATION AND CAMPING IN PHYSICAL EDUCATION

Unit -I

Introduction to Recreation:

- a. Definition, Scope and Significance of recreation importance of recreation in physical education.
- b. Philosophy and Object, Relationship of Play, work, leisure and recreation, Historical Development of Recreation.
- **c.** Types of Recreation Passive, active, emotional creative and sub zero level recreation.

Unit - II

Organization and Administration of Recreation Agencies Offering Recreation:

Agencies offering recreation – Home, Government, Voluntary – Private and Commercial agencies – Rural, Urban and Community and Industrial Recreation – Areas, facilities – equipment and their maintenance.

Unit - III

Programme Planning in Recreation:

General principles of Programme Construction – Type of Recreational Activities – Indoor and Outdoor games, Arts and Crafts.

Drama, Music, Hobbies, Aquatics, dance, hiking, evaluation of Programme.

Unit - IV

Leadership:

Leadership and Techniques of Leadership - Types of Leaders and their qualifications.

Unit - V

Camping:

Scope and Significance of Camping, types of Camps – Selection and lay – out of camp sites,

Organization and administration of Camps, Leadership and Supervision, Camp programme and activities, Evaluation of Camp work.

- 1. Rubin, R. Book of Camping, N.V. Assn Press, 1949.
- 2. Royappa, D.J. and Govindarajulu, L.K. **Camping and Education,** Jupter Press Private Ltd, Madras, 1973.
- 3. Anderson, J.M. **Industrial Recreation**, McGraw Hill Book Company, Inc, London, 1955.
- 4. Butler G.D. **Introduction of Community Recreation,** McGraw Hill Book Company, Inc., London, 1955.
- 5. Witt, and Goodalae, **Recreation and Leisure**, Venture Publishing, Pennsylvania, 1985.

Semester - IV 7580402

EXERCISE PHYSIOLOGY AND SOPRTS NUTRITION

Unit - I

Introduction

- a. Meaning and Scope of physiology of exercise.
- b. Structure and function of skeletal muscles.
- c. Types of muscle fibres Muscle Fibre distribution Red and White.
- d. Types of muscular contraction –isotonic, isometric and Iso- kinetic.

Unit - II

Effect of Exercise on various Systems

- a. Effect of Exercise on circulator system pulse rate, Stroke volume, cardiac output, blood pressure etc.
- b. Effect of exercise on respiratory system Breath holding time, respiratory rate, vital capacity, O₂ debt, second wind etc.
- c. Effect of exercise on muscular system –muscle fiber splitting , muscle size muscular tone oxygen supply to the muscle.
- d. Effect of exercise on Nervous system sympathetic and parasympathetic nervous system –recruitment of motor units glycogen supply pain tolerance

Unit - III

Energy Metabolism

- a. Metabolism Anabolism and Catabolism
- b. Sources of Energy Aerobic and Anaerobic metabolism, fat metabolism and protein metabolism

Unit - IV

- a. Physiological aspects of warming up and Cool down.
- b. Physiological aspects of fatigue and sourness.

Unit - V

Nutrition

- a. Nutrition Introduction Classification of Food.
- b. Balanced Diet Function of Diet Factors Affecting Diet Elements of Balance Diet.
- c. Daily Energy Requirement Eating and Competition of Sportsperson.
- d. Roles of Various Vitamins and minerals.

- 1. Moses, Amrit Kumar R., Introduction to Exercise Physiology, Poompugar Pathipagam, Madras, 1985.
- 2. Berger, Richard A., Applied Exercise Physiology, Lea & Febiger, Philadelphia, 1982.
- 3. William D. MC Ardle, "Exercise Physiology Energy, Nutrition and Human performance", Lea and Febign Publications, Philadepia.
- 4. Richard W. Bowers and Edward L. Fox, 'Sports Physiology', Wan. C.Brown Publishers.
- 5. David H. Clarke, 'Exercise Physiology' Prentice Hall, Inc. New Jersey.

Semester – IV 7580403

THEORY OF GAMES -II

Unit - I

Badminton

- a. History and Development. Ground Markings and Measurements Equipments.
- b. System of Officiating Duties of Officials Official Signals and Score Sheet Rules and Interpretations
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

Unit - II

Kho-Kho

- a. History and Development. Ground Markings and Measurements Equipments.
- b. System of Officiating Duties of Officials Official Signals and Score Sheet Rules and Interpretations
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

Unit – III

Basket Ball

- a. History and Development. Ground Markings and Measurements Equipments.
- b. System of Officiating Duties of Officials Official Signals and Score Sheet Rules and Interpretations
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

Unit - IV

Hand Ball

- a. History and Development. Ground Markings and Measurements Equipments.
- System of Officiating Duties of Officials Official Signals and Score Sheet -Rules and Interpretations
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

Unit - V

Hockey

- a. History and Development. Ground Markings and Measurements Equipments.
- System of Officiating Duties of Officials Official Signals and Score Sheet -Rules and Interpretations
- c. Positional play Team tactics. Offensive and Defensive play Team Strategy. Drills for the Development of Skills Lead up Games.

- 1. **Book of Rules of Games and Sports,** National Council of Y.M.C.As. of India, New Delhi, 2005.
- 2. Perinbafaj, S.Bevinson and others, **PLAY FIELD: Dimensions and its Requirements,** Vinsi Publications, Karaikudi, 2003.
- 3. Buck, H.C, Rules of games and Sports.

Semester – IV 7580404

SPORTS JOURNALISM

Unit - I

- a. Sports Journalism Meaning, Need, Nature and Scope.
- b. Types, Aim and Objectives, Responsibilities, growth and development.

Unit - II

- a. Sports writing and reporting Basic Principles, Basic of Athletic Reporting.
- b. Basics of Games Reporting, Interviews, Photoes, News, Tit-bits.

Unit- III

- a. Editing- Techniques Editor sub editors.
- b. News Structure -Radio & T.V. Commentary.

Unit - IV

Advertising and Newspaper Management.

Unit -V

Ethics and Responsibilities of Sports Journalists.

Ethics of Journalism and Sports Bulletins

Ethics of Journalism - Canons of Journalism - News, Information's and ideas - Journalism and Sports Education - Structure of Sports education - Compiling a bulletin - Types of bulletin - Hourly bulletins and special bulletin - External bulletins

Sports, Ethics and Reporting

Brief review of Olympic Games, Asian Games, Common Wealth Games and Indian Traditional games. - Sports Ethics and Sportsmanship - Sports as an integral part of physical education - Sports organization and sports journalism - General news reporting and sports reporting.

Mass Medias in Journalism

Radio and T.V. Commentary - Running commentary on the radio - Sports expert's comments - Sports review for the radio and T.V.

- 1. Ahiya, B.N., Theory and Practice of Journalism: Set to Indian Context Ed. 3, Delhi, Surject Publications, 1988.
- 2. Ahiya, B.N. and Choabra, S.S.A. Concise Course in Reporting Etc. Delhi, Surject Publications 1990.
- 3. Bhaft, S.C. Broadcast Journalism Basic Principles, New Delhi, Har Anand Publications, 1993.
- 4. Kamali, M.V. the Journalist handbook, New Delhi, Vikas Publishing House Pvt. 1983.

Semester – IV 7580405

HEALTH EDUCATION

Unit - I

- a. Meaning and Definition of Health and Health Education.
- b. Aim and Scope of Health Education.
- c. Role of International Health Organizations.

Unit - II

- a. Physical health Characteristics of a Physical Healthy person.
- b. Mental health Characteristics of a mentally healthy person Mental illness.
- c. Community health Environmental health Occupational health and Occupational Hazards.

Unit -III

- a. Factors influencing health Heredity and Environment Infection Immunity.
- Public Health measures to Combat infection Protected water Supply Disposal of garbage – Sewage and refuse disposal, Swimming pool sanitation.
- c. School Health Program Appraisal aspect including health inspection –
 Remedial Measure Healthful School Living School Healthful Administration School Health Records Mid Day Meal Programme.

Unit -IV

a. Communicable Disease: Definition - Causes - Mode of transmission Prevention - Malaria - Filaria - Typhoid - Cholera - Chicken pox Tuberculosis - Sex linked diseases - Aids.

Unit -V

Personal Hygiene: Care of skin – Mouth, Nails, Clothing, Hair, Breathing and Importance of Rest, Sleep and Exercise.

- a. Organization & Administrative set up of the Health Service in India.
- b. World Health Organization (W.H.O) and other National and International Organizations and Agencies.
- c. Practice, Planning and Evaluation in Health Education Programmes.
- d. National Family welfare programme Need and Importance.

- 1. **Health Education** by Moss and others (National Education Association of U.T.A) lastest Edition.
- 2. Park J.E. Text book of **Preventive and Social Medicine** (A Treatise on Community Health latest Edition Messers Banarside Bharat Publishers, 1263, Napie Town).
- 3. Berteutfer **School Education**, Harper and Brother New York, latest Edition.
- 4. Namir A. The School Health Education, Harper and Brothers, New York.
- 5. John Sutton, Webstar: Health for effective Living. McGraw Hill.

Semester – V 7580501

SPORTS MEDICINE

Unit - I

Introduction

a. Introduction of the terms sports medicine – definition – aim and objectives, need and importance of sports medicine.

b. Preventive -curative & rehabilitative aspects of sports medicine.

Unit - II

Athletic injury and management

- a. Athletic injury and management causes, sign and symptoms immediate management of head injuries shoulder injuries.
- b. Causes, sign and symptoms immediate management of Arm and elbow joint injuries wrist and hand injuries
- c. Causes, sign and symptoms immediate management of Knee, thigh, lower leg ankle and foot injuries.

Unit - III

Rehabilitation

- a. Meaning and definition of physical rehabilitation goal of rehabilitation various stages of rehabilitation neck, shoulder.
- b. Various stages of rehabilitation Arm, elbow, wrist, hand.
- c. Various stages of rehabilitation hip, thigh, knee, leg, ankle and food.

Unit - IV

Physiotherapy and injury management

- a. Role of physiotherapy in injury management classification of massage manipulication.
- b. Physiological effect of various types of massage.

Unit - V

Therapeutic modalities

- a. Cryotheraphy ice and cold water, ice pack, ice massage and cold compration.
- b. Thermotherapy contrast path, whirlpool path, hot water and vapor bath.
- c. Electrotherapy infrared radiation ultra violet short way diathermy micro ware diathermy ultra sound electrical stimulator TENS.

- 1. The Human Machine, by Adolphe Abraham, penguin Books Pelican Medical Series
- 2. Physiology of Muscular Activity, by Karpovich W.B. Saunders Co.
- 3. Dolan; "Treatment and Prevention of Athletic injuries" The interstate Danville, Illionis.
- 4. Edward Donald, Physiotherapy, Occupational therapy and Gymnastics." London Publishers.
- 5. James A. Gould III Orthopedic and Sports George j. Davis Physical therapy 1985 C. V. Mosby Company, Toronto.

Semester - V 7580502

BASIC STATISTIC IN PHYSICAL EDUCATION

Unit – I

- a. Meaning and definition of Statistics Need and Importance of Statistics in physical education
- b. Types of Statistical process.
- c. Data Types of data.
- d. Organization of data construction of frequency table advantages and disadvantage of computing frequency table.

Unit – II

- a. Measure of Central tendency meaning and definition of Mean, Median and mode.
- b. Computation of grouped and ungrouped data. Specific Characteristics of MCT.

Unit – III

- a. Measure of Variability meaning and definition of Range, mean deviation, Standard Deviation, Quartiles Deviation.
- b. Computation of grouped and ungrouped data Specific Characteristics of Measure of Variability

Unit - IV

- b. Measure of relative Positive Percentiles Deciles and quartiles
- c. T Scale, Hull Scale, Z scale and 6 sigma scale.
- d. Normal Curve probabilities of normal curve Skewness and Kurhesis.

Unit - V

- a. Meaning of Correlation Types of correlation.
- b. Computation of co-efficient of correlation and rank order correlation.

- 1. John W. Best. Research H. Clarke "Research in Education 1959", Prentice hall Inc.
- 2. Harison Clarke, David H. Clarke "Research Process in Physical Education and Health" Englewoon Cliff, New Jercy, Prectice Hall Inc 1970.
- 3. Kamalesh, M.C. Metholody of Research in Physical Education and Sports, 1986. New Delhi: Metropolitan Book Co.Pvt.
- 4. Balbir Sing Sindu Methodology of Research in Evaluations 1987) Bangalore sterling Publishers Pvt.
- 5. S.C. Gupta: Fundamentals of Statistics. Himalayas Publishing House, 1993.
- 6. Garrett. E. Henry: Statistics in Psychology and Education. Bombar valalls Foffar and summons Pvt. Ltd, 1969.

Semester - V 7580503

MODERN TRENDS IN PHYSICAL EDUCATION

Unit - I

Introduction

Concept of Physical Education

- a. Physical Education Programme in School and College.
- b. Course Content for Academic and Professional Courses.

Unit - II

Health

- a. The Health Benefits of Physical Activity.
- b. Physical Inactivity for Health Cardiovascular Disease Blood Pressure
 Hypertension Blood cholesterol Obesity and diabetes.
- c. Drugs Addition and its Management
- d. Fitness for special population.

Unit - III

Fitness

- a. Age category of pupils and selection of activities.
- b. Talent Identification in Sports and Games.

Unit - IV

Nutrition

- a. Calculating your Daily calorie Expenditure.
- b. Nutrition in Sports.
 - 1. Aerobic and Anaerobic events.
 - 2. Pre meal and post meal for competition period.

Unit - V

Modern Trends in Play Field

- a. Play area synthetic track turf field flex surface Grass field- wooden surface
- b. Equipment Playing and protective Equipment.
- c. Indoor stadium structure and facilities flood light matches.

- 1. Bucher, Charles A. and Wuest, Deborah A.(1992). Foundations of Physical Education and sport. (11th edn.) New Delhi: B1 Publication Private Limited.
- 2. Gangopathyay, S.R. (edn. 1993) Physical Education Today and tomorrow Delhi: French Publication.
- 3. Theibert, P. Richard and Ezersky, Euyene M.(1976) Facilities in sports and Physical Education Saint Louis: The C.V. Mosby Company.
- 4. Stotlar, David. K and Wulker, Marcia. L. 1997. Sport Facility management, Bostan: James and Bartlett Publishers.

Semester – V 7580504

SPORTS MANAGEMENT

UNIT - I

Introduction

- a. Introduction to concept of management and meaning of organization and administration.
- b. Importance of organization and administration, guiding principles of organization.

UNIT - II

Organization Scheme

- a. Organization scheme and Physical Education in Schools, Colleges, Universities.
- b. Organization scheme and Physical Education in Districts, States, National and International.

UNIT - III

Facilities

- Facilities and standards for outdoor and indoor activities in educational institutions.
- b. Gymnasium Construction, Factors, Care and Allied Facilities.
- c. Swimming pool Construction, Factors, Care and Allied facilities.
- d. Staff and Leadership Need for trained leadership, Qualification of physical education teacher, teaching load and Teacher pupil ratio.

UNIT - IV

Programme Planning

- a. Curriculum need and importance of syllabus preparation and development of course of studies.
- b. Types of programme Intramural Extramural, preparation of time tables
 Types of physical education periods.
- c. Promotion of physical education Public relation conferences clinics & Workshop physical education association.

UNIT - V

Office and Finance Management

- a. Maintaining various types of records, Registers and reports.
- b. Source of Income Approved items of expenditure Rules for utilization of games fund or physical education fund.
- c. Preparation and administration of budget and accounting.

- 1. Hughes, L.W. and French, E. The Administration of Physical Education, Ronald ress Co.
- 2. Jospeh, P.M. Organization of Physical Education, Old students Assn. TIPE, Kandivilli, Bombay.
- 3. Nash, J.B. and et.al Organization and Administration of Physical Education, A.S. Barners
- 4. Thomas, J.P. Organization and Administration of Physical Education, Gnanodaya Press, Anderson Street, Chennai 1.
- 5. Velter, B. and Esslinger, A.A. Organization and Administration of Physical Education, Appleton Century crafts.

Semester – V 7580505

DISABILITY MANAGEMENT AND INCLUSIVE GAMES

UNIT I

Definition of Disabling Conditions - Benefits of Physical Education for persons with Disabilities - Recreational Sports Opportunities, Competition Opportunities - Special Olympics, Paralympics and Deaflympics.

UNIT II

Classification of Disability: Visual, Auditory, Neuromuscular, Orthopedic - Cardiovascular, Respiratory, Mental, Emotional. Adapted Physical Education Activities - Specific Guidelines for: Visual Impairment, Hearing Impairment, intellectually challenged, Orthopeadically Handicapped.

UNIT III

Adaptation of Motor Activities – Principles for Adaptation of Motor Activities – Facilities and Equipment for different disabilities. Orientation on Facilities and - Types of Equipment- Minimum equipment, Additional Equipment, Evaluation Equipment. Leisure, Recreation and Sports Facilities for persons with disabilities.

UNIT IV

Adapted Games for Persons with Disability: Rules of Adapted games and Class Management – Adapted Games for the blind: Adapted Volleyball, Kabaddi, Tennis, Table Tennis and Adapted minor games and Track and Field events. Teaching methods to be adapted by the Special Educator in Sports, Recreation and Games. Kinesthetic – one on one teaching, group teaching, circular method of teaching. Unified Sports.

UNIT V

Inclusive Education: Meaning, Definition, Aim and Objectives. Strategies for including students. Steps for modifying and adaptation of the physical education curriculum. Methods of playing Inclusive games: Hula Contortion, Lasso, Pumkin Fun, Snickers & Hoots, What Do You Like To Eat, Mr. & Mrs. Owl?, Toy soldier, Clean-up Your Own Back Yard, Parachute Activities, Freeze Tag Not!, Peace Release, Top Gun High Five's and Rock, Paper, Scissors, Dynamite.

REFERENCES:

- 1. Auxter, D. (1993). Principles and Methods of Adapted Physical Education. Mosby Publications.
- 2. Chapman, F. M. (1960). Recreation Activities for the Handicapped. New York: The Ronald Press Company.
- 3. Daniel, R. C. (1982). Games Sports and Exercises for the Physically Handicapped. Philadelphia
- 4. Jaimitra.S (1990) Physical Education for the Blind Chennai: Grace Printer.
- 5. Jain, A. (2003). Adapted Physical Education. Delhi: Sports Publication.
- 6. Kassar, Susan (1995). Inclusive Games. Human Kinetics Champaign, IL.
- 7. Lau, D. S. (2001). Physical Education for the Physically Handicapped. Delhi: Khel Sahitya Kendra.

Semester VI 7580601

TRAINING METHODS

Unit - I

Introduction

- a. Meaning of the terms Sports training Coach Technique Tactics Skill– Strategies.
- b. Aim, Characteristics and Principles of sports training.

Unit - II

Warm up and Cool done

- a. Warming up: Types of warming up importance of warming up
- b. Cool done importance of cool done.
- c. Types of Training: Circuit training Interval training Weight training Fartlek training Plyometric training.

Unit - III

Concept of load & Recovery:

- a. Meaning of load Types of load, important of training load, Training Load & adaptation, compensation & supper compensation.
- b. Over Load symptoms Causes and remedies of over load.
- c. Relationship between load and recovery- Factors affecting pace of recovery Means of recovery.

Unit - IV

Training for Motor Components

- a. Meaning and importance of Speed Strength Endurance Flexibility and Co-ordination.
- b. Types of Speed Strength Endurance and Flexibility.
- c. Factors determining Speed Strength Endurance Flexibility and Co-ordination
- d. Means and methods to developing the above variables.

Unit - V

Planning & Periodisation:

- a. Meaning and types of training plans.
- b. Main and build-up Competitions, Competition frequency preparation for Competition
- c. Meaning and types of Periodisation.
- d. Aim and contents of various period.

- 1. Hardayal Singh, "Sports Training, General theory and methods", NSNIS, Patiala.
- 2. Cart E.K. Klafs, Daniel D. Arnheim, "Modern Principles of Athlitic Training", C. V. Mosphy Company, St. Louis.
- 3. Bunn, J.N. 'Scientific Principles of Coaching' Prentice Hall, Engle wood Cliffs, New Jersey.
- 4. Jensen, C.R, and Fisher, A.G, 'Scientific Basis of Athletic Conditioning Philadelphia.

Semester -VI 7580602

COMPUTER APPLICATION IN PHYSICAL EDUCATION

Unit-I: Introduction to Computer

- Meaning, need and importance of information and communication technology (ICT).
- Components of computer and output device
- Basic of internet and emailing Uses and abuses of internet and Email
- Role of e-sources in teaching, training and coaching
- Application software used in Physical Education and Sports

Unit-II: MS WORD

- Introduction to MS Word Need of MS Word in physical education
- Creating file, opening and document Saving
- Formatting Editing Features Drawing table,
- Page setup, paragraph alignment, spelling and grammar check printing option, inserting page number, graph, footnote and notes
- Utilities of MS Word; Sorting Word art Converting table to text and text to table Mail merge

Unit-III: MS Excel

- Introduction to MS Excel Need of MS Excel in analysis of data
- Creating opening spread sheet and saving file
- Format and editing features adjusting columns width and row height understanding charts.
- Creating formulas Data analysis
- Construction of Graphical representation: Bar diagram- Pie diagram- Line graph

Unit-IV: MS Power Point

- Introduction to MS Power Point Need of MS Power Point in Physical Education
- Creating, Saving and opening a ppt. File
- Format editing features slide show, design, inserting slide number picture, graph, table
- Preparation of power point presentations
- Animation: Meaning- Method of Preparation- Impact in presentation

Unit – V Statistical Packages

- SPSS: Statistical Package for Social Sciences: Need of Statistical Packages,
- Brief about SPSS- Applications in Physical education-
- Data entry- Editing data- format of data- Data structure
- Analysis of Basic statistics Descriptive: Mean-Median-Variance-Standard deviation
- Import and Export of Data and results to Excel

References:

- 1. Irtegov, D.(2004). Operating system fundamentals. Firewall Media .
- 2. Marilyn, M.& Roberta, B.(n.d).computers in your features.2nd Edn, India Prentice Hall.
- 3. Milke, M. (2007). Absolute beginner's guide to computer basics. Pearson Education Asia.
- 4. Sinha, P.K.& Sinha, P.(n.d.).computer fundamentals . 4th Edn, Bpb publication.

Semester VI 7580603

THEORY OF TRACK AND FIELD

Unit - I

Introduction

- a. National and international governing body.
- b. Structure and Functions of IAAF and AFI
- c. Meaning and types of Track and Field events.
- d. Combined Events Pentathlon, Heptathlon and Decathlon.

Unit - II

Age groups and Selection of Athletes

- a. Trams related to track and field.
- b. Definition of Amateur and professionalism in sports.
- c. Age groups and equipment weight Youth boys and girls junior men and women veteran men and women.
- d. Selection of Athletes Physical, Physiological, Psychological, anthropometrical and Performance factors.

Unit - III

Athletic stadium

- a. Surface of the track
- b. Types of Tracks Standard and Non-standard.
- c. Need for a Standard track.
- d. Guiding principles of a Standard track.

Unit - IV

Track events

- a. Planning and construction calculation Marking of non-standard and standard Track.
- b. Specifications of equipments Rules and Interpretations Duties of Officials
 Score Sheets for all track events.
- c. Technique, stages, tiebreaking system and quality of athlete for track events.

Unit - V

Field events

- a. Planning and construction Marking of field events.
- b. Specifications of equipments Rules and Interpretations Duties of Officials
 Score Sheets for all track events.
- c. Technique and stages quality of athlete for field events.

- 1. The art of officiating Sports John W. Bunn.
- 2. Rules of Games and Sports.
- 3. Track and Field Ray M. Conger.
- 4. Fundamentals of Track and Field Coaching I. Miller.
- 5. Track and Field for Coach and athlete Josse P. Mortensen and John M.Copper.

Semester - VI 7580604

SPORTS PSYCHOLOGY AND SOCIOLOGY

Unit - I

- a. Meaning and Definition of Psychology and Sports Psychology.
- b. Nature and Scope of Sports Psychology.
- c. History of Sports Psychology.

Unit - II

- a. Perception Definition and Theories of perception.
- b. Perception and Motor Learning.
- c. Errors of Perception.
- d. Intelligence Definition ability to learn motor skills Athlete versus Non-athlete in intelligence.

Unit - III

- a. Motivation Definition Types of Motivation.
- b. Reinforcement Success and Failure Reward and Punishment Praise and Criticism Knowledge of results Feed back Fans & Spectators.
- c. Emotional factors Tension, Anxiety and Stress.
- d. Personality Types of personality Measuring personality.

Unit - IV

- a. Sports Sociology Definition Nature & Scope of Sociology in sports Science.
- b. Meaning and Definition of culture Types of culture.
- c. Relationship of Sports with Culture. Sports as a man's cultural heritage.
- d. Socialization Socializing Institutions Community, Family, Peers, Teacher, Mass Media Communication.
- e. Role of Socialization in Sports.

Unit - V

- a. Social Institution Meaning Types of social Institution.
- b. Relationship of sports with Religious intuitions Educational institution Economic institution Political institution.
- c. National Integration Role of Physical Education in National Integration.

- 1. Robert N. Singer, "Motor Learning and Human Performance," The Macmillan co., New York.
- 2. Misolav Vanek and Bryant J. Cratty, "Psychology and the Superior Athlete," Macmillon Co., Collier, London.
- 3. Robert N. Singer and Fobiger, "The Psychomotor Domain and Movement Behavior" Philadelphia.
- 4. John D. Lauther, "Sports Psychology." Prentice Hall Inc., Englewood.
- 5. Bryant J. Cratty, Social Dimensions of Physical Activities Pentice Hall, Inc, 1967.
- 6. Alex Thio, Sociology Introduction, Harper and Row, 1985.

Semester - VI 7580605

CONTEMPORARY ISSUES IN PHYSICAL EDUCATION: FITNESS AND WELLNESS

UNIT - I

Concept of Physical Education and Fitness: Definition, Aims and Objectives of Physical Education, fitness and Wellness. 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; Fitness – Types of Fitness and Components of Fitness. Understanding of Wellness. Modern Lifestyle and Hypo kinetic Diseases – Prevention and Management. Physical Activity and Health Benefits

UNIT - III

Principles of Exercise Program: Means of Fitness development – aerobic and anaerobic exercises. Exercises and Heart rate Zones for various aerobic exercise intensities. Concept of free weight Vs Machine, Sets and Repetition. 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

UNIT V Sports Nutrition:

Diet for sports competition- supplement to the daily diet. Vitamins, Minerals, Fluids. Electrolyte replacement, Carbohydrate loading, Protein loading, Calcium and iron supplement. Pre-event meal. Time for pre-event meal, Alternate eating pattern, Foods to avoid. Exercise and weight control, Crash dieting, Weight Control.

REFERENCES:

- 1. Difiore, J.(1998). Complete quide to postnatal fitness. London: A & C Black,.
- 2. Giam, C.K & The, K.C. (1994). Sport medicine exercise and fitness. Singapore: P.G. Medical Book.
- 3. Mcglynn, G., (1993). Dynamics of fitness. Madison: W.C.B Brown.
- 4. Sharkey, B. J.(1990). Physiology of fitness, Human Kinetics Book.
- 5. William, D. Mc Aradle. (1996). Exercise Physiology, Energy, Nutrition and Human Performance. Philadelphia: Lippincott Williams Company.
- 6. Williams, S. & Rod, W. (2001) Nutrition and Diet, Therapy 2nd Edition, London: W.B. Saunder College Publishing.