Siddharth University, Kapilvastu, Siddarthnagar

Department of Physical Education



Syllabus as per Common Minimum Syllabus for U.P. State Universities and Colleges

PHYSICAL EDUCATION –at U.G. level (for B.A. / B.Sc.)

To be implemented from Session 2022-23

COURSE STRUCTURE FOR MAJOR SUBJECT PHYSICAL EDUCATION – at U.G. level (for B.A. / B.Sc.)

| YEAR | COURSE CODE | COURSE TITLE | CREDITS | | |
|---------------|----------------------|--|---------|--|--|
| | | Semester – I | | | |
| | PE 101 | Elements of Physical Education | 4+0 | | |
| | (E020101T) | Elements of Thysical Education | 7+0 | | |
| | PE 102 | Fitness and Yoga | 0+2 | | |
| | (E020102P) | Titless and Toga | 0.2 | | |
| First | (======) | Semester – II | | | |
| Year | PE 103 | Sports Organization And Management | 4+0 | | |
| | (E020201T) | Sports organization rand trainingement | | | |
| | PE 104 | Sports Event and Track & Field | 0+2 | | |
| | (E020202P) | | | | |
| | | Semester – III | | | |
| | PE 201 | Anatomy & Exercise Physiology | 4+0 | | |
| | (E020301T) | Thiatomy & Exercise I hysiology | 410 | | |
| | PE 202 | Health and Physiology | 0+2 | | |
| | (E020302P) | Treatm and Thysiology | 012 | | |
| Second | Semester – IV | | | | |
| Year | PE 203 | Sports Psychology and Recreational Activities | 4+0 | | |
| | (E020401T) | The state of the s | | | |
| | PE 204 | Sports Psychology | 0+2 | | |
| | (E020402P) | | | | |
| | | | | | |
| | | Semester – V | | | |
| | PE 301 | Athletic Injuries and Rehabilitation | 4+0 | | |
| | (E020501T) | | | | |
| | PE 302 | Kinesiology and Biomechanics in Sports | 4+0 | | |
| | (E020502T) | | | | |
| | PE 303 | Rehabilitation & Sports | 0+2 | | |
| | (E020503P) | | | | |
| Thia | PE 304 | Sports Specialization | 0+2 | | |
| Third Year | (E020504P) | | | | |
| r ear | DE 205 | Semester – VI | 1 1 | | |
| | PE 305 | Research Methods | 4+0 | | |
| | (E020601T) | Di i IEI di C Di | 4 : 0 | | |
| | PE 306 | Physical Education for Divyang | 4+0 | | |
| | (E020602T) | December 1 Course | 0.2 | | |
| | PE 307 | Research and Sports | 0+2 | | |
| | (E020603P) PE 308 | Traditional Compagned Courts | 0.2 | | |
| | 上上に つひり | Traditional Games and Sports | 0+2 | | |

PROGRAMME SPECIFIC OUTCOMES:

III

- PSO1 :The students will be able to understand the basic and practical aspects of Physical Education, Yoga and Sports.
- PSO2 :The students will be able to understand the biological, psychological, physical, health and functional aspects of human body.
- PSO3 :This program aims to enable the students to understand and develop the mental & physical ability, management skills, leadership quality, health planning, event management, sports budgeting, physiological understanding, teaching methods, sports psychology and research orientation in physical education.
- PSO4 :After completing this program the students will definitely be able to successfully discharge their duties and responsibilities towards themselves and society.
- PSO5 :This course also aims for the physical and sports skill development that may help for higher studies in physical education and may lead him/her to make a career in physical education and sports industry.

SEMESTER I - PAPER I

| Course code: 1 | PE 101 (E020101T) | Year: First | Semest | ter: First |
|----------------|----------------------------------|--|---------------|------------|
| | Course ' | Title: Elements of Physical Education | | |
| Course Out | tcomes: | | | |
| • The phys | ical education is ver | y wide concept and this course teaches al | bout introdu | ction and |
| • | cal concept of physic | | | |
| | | velopment of physical education in India and | | ries. |
| | | e general concept of good health and wellne | | |
| | the student to promot | e healthy way of living by developing fitne | ess and healt | h plan. |
| Unit | | TOPICS | | Credit |
| | Ancient Wisdom in | Physical Education, Sports and Yoga: | | |
| | Patanjali Yog | ga Sutra. | | |
| | Ancient and 7 | Γraditional Games of India. | | 4+0 |
| - | _ | inition and concept of physical education. | | |
| I | Aims and obj | ectives of Physical education. | | |
| | History of Physical | Education: | | |
| | | development of Physical education in India | a. | |
| II | · · | hysical education in ancient Greece and R | | |
| | Sociological Found | <u> -</u> | | |
| | Meaning, De | efinition and importance of Sports Sociolog | gy. | |

Culture and sports. Socialization and sports.

| IV | Olympic Movement: Olympic Movement: Ancient Olympic Games, Modern Olympic Games, Aims and Objectives of Olympic Games. Olympic Spirit, Olympic Torch, Olympic Flag, Olympic Motto. |
|------|--|
| v | Health Education: Meaning, Definition, Objectives, Principles and Importance of Health Education, Dimensions of Health. Food and Nutrition - Essential nutrients & their functions, Balanced diet, Health and Drugs |
| VI | Internationals health agencies- WHO, UNICEF, Red Cross Society. Wellness and Life Style: Importance of Wellness and Active Lifestyle. Role of Physical Activities in maintaining healthy Lifestyle. Causes and Health problems associated with Stress & Obesity. |
| VII | Fitness: Meaning, Definition and types of fitness. Components of Fitness. Tests of Physical Fitness. |
| VIII | Posture: Meaning & Definition of Posture. Importance of Good Posture. Causes of Bad Posture. Common Postural Deformities. |

- 1. Swasthya Evam Sharirik Shiksha by Dr. Rajesh Pratap Singh, by Rishab Books New Delhi
- Sharirik Shiksha ki Adhunik Prawatiya by Dr. Rajesh Pratap Singh, by University publication, New
- Uppal AK & Gautam GP (2008). Health & Physical Education. Friends Publication. New Delhi
- Balayan D (2007). Swasthya Shiksha Evam Prathmik Chikitsa. Khel Sahitya. Delhi.
- Barrow Harold M., "Man and movements principles of Physical Education", 1978.
- Difiore, J. (1998). Complete guide to postnatal fitness. London: A & C Black,
- Dynamics of fitness. Madison: W.C.B Brown.
- Sharirik Shiksha, Dr. Rajesh Pratap Singh, Yogesh Kumar & Suneel Kumar by Khel Shahitay Kendra, New Delhi
- Giam, C.K & The, K.C. (1994). Sport medicine, exercise and fitness. Singapore: P.G. Medical Book. Mcglynn, G., (1993)
- 10. Kamlesh M.L., "Physical Education, Facts and foundations", Faridabad Publications
- 11. Krishana Murthy V. and Paramesara Ram, N. "Educational Dimensions of Physical. Education", 2nd Revised edition, Print India, New Delhi 1990.
- Ravanes R.S., "Foundation of Physical Education", Houghton Millin Co. Boston USA (1978)
- 13. Sharkey, B. J. (1990). Physiology of fitness, Human Kinetics Book.
- Track & Field. by Gerhardt schmolinsky, Leipzig college of physical culture (DHFK)
- 15. Fitness and Health Education, by Dr. Rajesh Pratap Singh, Shree Publisher and Distributer, New Delhi.
- 16. Health Education, Hygeine, First Aid & Sports Injuries by Dr. Neeraj Pratap Singh & Dr. Ajay Dubey, Sports Publication, New Delhi.

SEMESTER I - PAPER II

| Course Code: PE 102 (E020102P) | Year: First | Semester: First |
|---------------------------------------|-------------------------------|-----------------|
| Co | ourse Title: Fitness and Yoga | |

Course Outcomes:

- To understand the basic practical concepts of Physical Fitness and Yoga.
- To gain the basic knowledge about Physical conditioning through various fitness work-out methods.

• To learn and understand Yogasanas and Pranayama.

| Unit | Topics | Credits |
|------|---|---------|
| | Part-A | |
| I | Introduction to Physical Fitness: Learn and demonstrate the techniques of warm-up, general exercise and cooling down Learn and demonstrate physical fitness through aerobics, circuit training and calisthenics. Diet chart & measurement of BMI | 0+2 |
| | Part-B | |
| | Introduction of Yoga: | |
| | Practical aspect of yoga. The second s | |
| | Types, scope & importance of yoga. Asserted: | |
| II | Asanas: Surya-namaskar, Bhujang asana, Naukasana, Halasana, Vajrasan, Padmasana, Shavasana, Makrasana, Dhanurasana, Tadasana. | |
| | Pranayama: | |
| | Difference and classification of pranayama. | |
| | Difference between pranayama and breathing.Anulom-Vilom. | |

- 1. ACSM's Guidelines for Exercise Testing and Prescription (2001), American College of Sports Medicine, New York, U.S.A.
- 2. Anspaugh, D.J., G. Ezell and K.N. Goodman (2006) Teaching Today Health, Mosby Publishers, Chicago (USA
- 3. Donatelle, R.J. and Ketcham P. (2007), Access to Health, Benjamin Cummings, Boston, USA.
- 4. Flyod, P.A., S.E. Mimms and C. Yelding (2003) Personal Health: Perspectives and Lifestyles, Thomson, Wadsworth, Belmont, California, USA.
- 5. Sharma JP (2007). Manav jeevan evam yoga. Friends Publication. New Delhi.
- 6. Sharma Jai Prakash And Sehgal Madhu(2006). Yog-Shiksha. Friends Publication. Delhi.
- 7. Singh MK and Jain P (2008). Yoga aur manoranjan. Khel Sahitya Kendra. New Delhi.
- 8. Vyas SK (2005). Yog Shiksha Khel Sahitya Kendra. Delhi.

SEMESTER II - PAPER I

| Course code: PE 103 (E020201T) | Year: First | Semester: Second | | |
|--|-------------|------------------|--|--|
| Course Title: Sports Organization and Management | | | | |

Course Outcomes:

- This course is designed to give exposure to students in understanding the planning, organising and implementation aspects of sports events.
- The students will also learn about store management, purchasing of material, budget making and career avenues in physical education.

| Unit | Topics | Credits |
|------|--|---------|
| I | Introduction: Meaning, concept and definition of sports management. Aims and objectives of sports management. | 4+0 |
| II | Event Management Meaning and concept of event Planning and management of sports event. Steps in event management: Planning, Executing, Evaluating | |
| III | Budget Part - A Meaning, Definition, Preparation of Budget. Principles of making Budget Qualities of a good Budget. | |
| IV | Budget Part - B The Budget Cycle and Budget Preparation Format. Preparing the Departmental Financial Plan and estimate. Expenditure management. | |
| V | Organization Meaning and definition of Organization. Need and importance of Organization. Structure and functions of S.A.I., University Sports Council and A.I.U. | |
| VI | Supervision Meaning and Definition of Supervision Principles and Methods of Supervision Role of a coach/manager. | |

| VII | Facilities & Equipment | | | |
|------|--|--|--|--|
| | Procedure to purchase sports goods and equipments. | | | |
| | Care and maintenance of Equipments. Stock entry, Consumable and Non- Consumable sports goods | | | |
| VIII | Job Opportunities Job Opportunities in Physical Education and Sports. Career avenues and professional preparation. Clients and Sponsorship. | | | |

- 1. Bucher, Charles A. and Krotee, March L., "Management of Physical Education and Sport," MC Grow Hill publication, New York (US) 2002
- 2. Hert, Renis(1961) New Patterns of Management, McGraw Hill,.
- 3. Horine, Larry," Administration of Physical Education and Sport programs. WM-C BrownPublishers Dubuque (US) 1991
- 4. Kotler, P and G Allen, L.A. (1988) Management & Organization. Kogakusha Co. Tokyo.
- 5. Parkhouse, Bonnie L., "The management of Sports is foundation and application," Mosby publication, St. Louis (US), 1991
- 6. Sandhu, K. Sports Dynamics: Psychology, Sociology and Management.
- 7. Sivia, G.S (1991). Sports Management in Universities, New Delhi: A.I.U. Deen Dayal Upadhyaya Marg. 2005)
- 8. Adhunik Khel Prabhandhan Evam Parshikshan by Dr. Rajesh Pratap Singh, University Publication, New Delhi.
- 9. Sharirik Shiksha: Vidhyalaya Prashashan, by Dr. Rajesh Pratap Singh, University Publication New Delhi.

SEMESTER II - PAPER II

| Course Code: PE 104 (E020202P) | | Year: First | Semester: seco | ond |
|--------------------------------|---|--|-------------------------|-------------|
| | Course Ti | tle: Sports Event and Track & | Field | |
| Course Out | comes: | | | |
| • This c | ourse is designed to train | n the students for personal preparati | on and organising comp | petitions. |
| • This co | | s to understand and learn the rules, | regulations and technic | cal aspects |
| Unit | Topics Credit | | | |
| | | Part-A | | 0+2 |
| I | To organize Ir To prepare a b Make a Samp Prepare the list | n for organizing an event. Intramural Competition. Sudget plan for interclass competitle Time Table for college. It of Consumable and Non-Consumated control of the cont | ımable items. | |

Part-B

| | Track & Field: |
|----|-----------------------------|
| | History. |
| | Measurements. |
| II | Marking. |
| | • Rules. |
| | Officials. |
| | World and National Records. |
| | |

II

III

- 1. Parkhouse, Bonnie L., "The management of Sports it's foundation and application," Mosby publication, St.Louis (US), 1991
- 2. Bucher, Charles A. and Krotee, March L., "Management of Physical Education and Sport," McGraw Hill publication, Now York (US) 2002
- 3. Horine, Larry," Administration of Physical Education and Sport programs. WM-CBrown Publishers Dubuque (US) 1991
- 4. Hert, Renis(1961) New Patterns of Management, McGraw Hill,.

Structural classification of bones.

• Functions of Skeletal System.

Major group of muscles.

Muscular System:

Types of joints and major movements around them.

Classification, Structure and functions muscles.

• Effects of Exercise on Muscular and Skeletal System.

5. Sandhu, K. Sports Dynamics: Psychology, Sociology and Management.

| | | SEMESTER III - PAPER | I | |
|----------|---|---|-----------------------------|----------|
| Course C | ode: PE 201 (E020301T) | Year: Second | Semester: Third | d |
| | Course 7 | Title: Anatomy and Exercise | Physiology | |
| Course | outcomes: | | | |
| • T | o understand the importance physical education and spo | e, scope and need of Anatom orts. | y & Physiology in the field | d of |
| • T | o understand the basic struc | eture and functions of various | systems of the Human bo | dy. |
| • T | o understand anatomical an on its various systems. | d physiological effects of phy | vsical exercises on human | body and |
| Unit | | Topics | | Credits |
| I | field of Physical Ed | n and Importance of Anatomy ucation & Sports f Cell, Tissues, Organs and va | | 4+0 |
| | Skeletal System: | | | |

| IV | Circulatory System: Structure and functions of human heart. Blood pressure, cardiac output, Athlete's heart. Functions of Blood and Mechanism of Blood Circulation. Effects of exercise on Circulatory system. | | |
|------|--|--|--|
| V | Respiratory System: Organs, Structure and functions of respiratory system Effects of exercise on respiratory system. | | |
| VI | Digestive System: Organs, Structure and functions of digestive system Mechanism of Digestive System. | | |
| VII | Excretory and Nervous System: Structure and functions of Kidney, Functions of Skin. Parts and Functions of Nervous System. Effects of Exercise on Nervous System. | | |
| VIII | General Physiological Concepts: • Vital Capacity-VC • Second Wind • Oxygen Debt • Fatigue | | |

- 1. ACSM's Guidelines for Exercise Testing and Prescription (2001), American College of Sports Medicine, New York, U.S.A.
- 2. Anspaugh, D.J., G. Ezell and K.N. Goodman (2006), Teaching Today Health, Mosby Publishers, Chicago (USA
- 3. Donatelle, R.J. and Ketcham P. (2007), Access to Health, Benjamin Cummings, Boston, USA.
- 4. Flyod, P.A., S.E. Mimms and C. Yelding (2003), Personal Health: Perspectives and Lifestyles, Thomson, Wadsworth, Belmont, California, USA.
- 5. Goldberg, L. and D.L. Elliot (2000), The Healing Power of Exercise, National Health & Wellness Club, New York, U.S.A.
- 6. Jain, J. (2004), Khel Dawaon Ka (New Delhi: Delhi University Press).
- 7. Robbins, G., D. Powers and S. Burgess (2002), A Wellness Way of Life, McGraw Hill, New York, USA.
- 8. Schindler, J.A. (2003), How to Live 365 Days a Year (Boston: Running Press).
- 9. Koley, Shyamal (2007), Exercise Physiology A Basic Approach (New Delhi: Friends Publications).
- 10. Jain AK (2002), Anatomy & Physiology for Nurses. Arya Publishers, Delhi.
- 11. Moried EN (2007), Essential of Human Anatomy & Physiology. Ed. 8th Dorling Kindersley, India.
- 12. Prives M and Others (2004), Human Anatomy Vol. I & II Paragon, Delhi.
- 13. Seeley & Others (2008), Anatomy & Physiology. McGraw Hill, Boston.
- 14. Tortora (2003), Principles of Anatomy & Physiology, New York: John Willy & Sons. 15. William CS (2000).
- 15. Wilson and Waugh (1996), Anatomy & Physiology in Health & Illness. Churchill Livingstone

SEMESTER III - PAPER II

| Course Code: PE 202 (E020302P) | Year: Second | Semester: Third |
|--|--------------|-----------------|
| Course Title: Health and Physiology | | nd Physiology |

Course Outcomes:

• To understand the human body structure by means of preparing charts, models and learning human body measurement skills.

• To gain knowledge of First Aid and Rehabilitation through practical demonstration.

| Unit | Topics | Credits | | |
|------|--|---------|--|--|
| | Part-A | | | |
| I | Draw a labeled diagram of any two-body systems. Prepare a Model of any one System of human body. Learning of measuring height, weight, waist circumference and hip circumference and Waist-Hip ratio. Learn to Measure Blood Pressure using Sphygmomanometer. | 0+2 | | |
| | Part-B | | | |
| II | First Aid & Rehabilitation Definition of first aid, DRABC of first aid. First aid for hemorrhage, fractures, Sprain and Strain. PRICER School Health Card, First Aid facilities. Types of Rehabilitation. | | | |

- 1. Jain, J. (2004), Khel Dawaon Ka (New Delhi: Delhi University Press).
- 2. Robbins, G., D. Powers and S. Burgess (2002), A Wellness Way of Life, McGraw Hill, New York, USA.
- 3. Koley, Shyamal (2007), Exercise Physiology A Basic Approach (New Delhi: Friends Publications).
- 4. Jain AK (2002), Anatomy & Physiology for Nurses. Arya Publishers, Delhi.
- 5. Moried EN (2007), Essential of Human Anatomy & Physiology. Ed. 8th Dorling Kindersley, India.
- 6. Prives M and Others (2004), Human Anatomy Vol. I & IIParagon, Delhi.
- 7. Seeley & Others (2008), Anatomy & Physiology. McGraw Hill, Boston.
- 8. Health Education, Hygiene, First Aid & Sports Injuries by Dr. Neeraj Pratap Singh & Dr. Ajay Dubey, Sports Publication, New Delhi.

SEMESTER IV - PAPER I

| Course Code: PE 203 (E020401T) | Year: Second | Semester: Fourth |
|---------------------------------------|--------------|-------------------------|
| | | |

Course Title: Sports Psychology And Recreational Activities

Course outcomes:

- To access and understand the basic concepts of Psychology in the field of physical education and sports.
- To understand the relation between psychological concepts and human behavior during physical and sports performance.

• To understand the meaning and importance of Play, Recreation and Traditional games.

| Unit | Topics | |
|------|--|-----|
| I | Introduction: Meaning, Importance and scope of Sports Psychology Growth and Development. Psycho-physical Unity of Human behavior. | 4+0 |
| II | Learning: Nature of learning, brief introduction to theories of learning. Laws of learning, plateau in learning, transfer of Learning. | |
| III | Motivation: Nature & Types of motivation, factors influencing motivation. Motivational techniques and their impact on sports performance. | |
| IV | Personality: Meaning and definition of personality, characteristics of personality. Dimensions of personality, personality and sports performance. | |
| V | Anxiety And Aggression: | |
| VI | Play: Meaning and Definition of Play. Importance and functions of Play. Relationship between Learning and play. | |
| VII | Recreation: • Meaning and importance of recreation in physical education. • Principles of recreation in physical education. • Classification and ways of recreation. | |

VIII Traditional Games: Meaning and Types of Traditional Games. Importance and Benefits of Traditional Games. Mental and Physical development through Traditional Games.

Suggested Readings:

Course Code: PE 204 (E020402P)

- 1. Alliance, A. (1999), Physical Best Activity Guide, New Delhi,
- 2. Capel, S. et al Editors (2006), A Practical Guide to Teaching Physical Education.Routledge Publishers, USA.
- 3. Dheer, S. and Radhika. (1991), Organisation and Administration of Physical Edu., ND: Friends Pub.
- 4. Frost, R.B. and Others. (1992), Administration of Physical Education and Athletics, UniversalBook: Delhi
- 5. Gangwar, B.R. (1999), Organisation Admn. & Methods of Physical education, Jalandhar: A.P. Pub.
- 6. Gupta R. Kumar P. & Sharma D.P. (1999), Lesson Plan in Physical Education & Sports. R.D.P. Publication. New Delhi.
- 7. Gupta R. Kumar P. & Tyagi S. (2008), Textbook on Teaching Skill & Prowess. Part I & Friends Publication. India. New Delhi.
- 8. Kamlesh ML (2005), Methods in Physical Education. Friends Publication. Delhi.

Year: Second

- 9. Kamlesh ML (2005), Sharirik Shiksha Ki Vidiyan. Friends Publication. Delhi.
- 10. Pandey Laxmikant (1996), Sharririk Shiksha Ki Shiksha Padati. Metropolitan Book. New Delhi.
- 11. Shaw D & Kaushik S (2001,) Lesson Planning-Teaching Methods and Classman in Physical Education. K.S.K. Delhi.

SEMESTER IV- PAPER II

Semester: Fourth

| | Course Title: Sports Psychology | |
|-----------|---|---------------|
| ırse Outc | omes: | |
| • To un | derstand and learn the measurement and assessment techniques of important psych | ological trai |
| • To un | derstand and learn the measurement and assessment of coordinative abilities of hur | man body. |
| Unit | Part-A | Credits |
| I | Measurement of Personality and Personality Profile Assessment of Sports Anxiety Measurement of Motivation (Incentive Motivation and Achievement Motivation) Measurement of Aggression in sports. | 0+2 |
| | Part-B | |
| П | Reaction Time. Hand eye co-ordination. Foot-Eye Coordination. Hand-Foot - Eye Coordination. Team Building Games. | |

- 1. Cratty, Braynat. J., (1973) Movement Behavior and Motor Learning, Philadelphia: Lea and Febiger, Edn.
- 2. Magill, Richard A (1993) Motor Learning Concepts and Application, 4thed WCB Brown and Benchmark Publishers.
- 3. Passer, M.W., Smith, R.E., Holt, N. and Bremner, A. (2008). Psychology: The Science of Mind and Behaviour.McGraw-Hill Education.UK.
- 4. Oxendine, J.B. (1968) Psychology and Motor Learning, Englewood cliffs, New Jersey.
- 5. Cratty, B.J. (2000) Psychology of Contemporary sports, Human Kinetics Publishers, Champaign Ilinois.
- 6. Carron, A.V., Hausenlas, H.A. Mark Eys (2005) Group Dynamics in Sport, organtown, WV: Fitness Information Technology, INC, US.
- 7. Cronbach J. Lec (1990) Essentials of Psychological Testing (Harper Colins Publishers).

SEMESTER V - PAPER I

| Course Code: PE 301 (E020501T) | Year: Third | Semester: Fifth |
|--------------------------------|--------------------|-------------------|
| Course Title: | Athletic Injuries | and Physiotherapy |

Course outcomes:

- Students will be able to understand about the common and special sports injuries and first aid related to them.
- Students will be able to learn the significance of posture, posture related deformities and their remedial treatments.

• Students will also learn different aspects of massage and Rehabilitation.

| Unit | it Topics | | |
|------|---|--|--|
| I | Athletic Injuries and Athletic Care: Concept and Significance of Athletic Care. Factors causing Injuries. General Principles of Preventing Injuries. | | |
| II | Common Sports Injuries: Strain and Sprain, Lower Back Pain, Tennis Elbow, Shin Pain. Blister, Contusion, Abrasion, Laceration, Hematoma, Fracture, Dislocation. | | |
| Ш | Postural Deformities: | | |

| IV | Rehabilitation RICE- Rest, Ice, Compression, Elevation. DRABC- Danger, Response, Airways, Breathing, Circulation. Bandage Types of Bandages. Taping and Supports. |
|--|--|
| V | Physiotherapy Definition and Guiding principles of physiotherapy. Importance of physiotherapy. |
| VI Hydrotherapy- Meaning and Methods of Hydrotherapy. Brief introduction of Cryotherapy, Thermotherapy, Contrast bath, Steam bath, Sauna bath, Hot Water Fomentation. | |
| VII | Massage Meaning and Types of Massage. Contradictions of Massage. Importance of Massage in Rehabilitation and Sports. |
| VIII | Therapeutic Exercises: Meaning, Definition and Importance of Therapeutic Exercises. Muscle Strengthening through Active and Passive Exercise. |

- 1. ACSM's Guidelines for Exercise Testing and Prescription (2001), American College of Sports Medicine, New York, U.S.A.
- 2. Donatelle, R.J. and Ketcham P. (2007), Access to Health, Benjamin Cummings, Boston, USA.
- 3. Fahey, T.D., M.P. Insel and W.T. Rath (2006), Fit & Well: Core Concepts and Labs in Physical Fitness, mcgraw Hill, New York.
- 4. Flyod, P.A., S.E. Mimms and C. Yelding (2003) Personal Health: Perspectives and Lifestyles, Thomson, Wadsworth, Belmont, California, USA.
- 5. Hoeger, W K and S.A. Hoeger (2004). Principles and Labs for Fitness and Wellness, Thomson Wadsworth, Belmont, California, USA.
- 6. Jain, J. (2004) Khel Dawaon Ka (New Delhi: Delhi University Press).
- 7. Kumari Sheela S. Rana, Amita, and Kaushik Seema, (2008), Fitness, Aerobics and GymOperations, Khel Sahitya, New Delhi.
- 8. Pande, P. K. (1987) Outline of Sports Medicine, New Delhi: Jaypee Brothers.
- 9. Roy, Steven and Richard, Irvin (1983) Sports Medicine, Benjamin Cummings, Boston, USA.
- 10. Schindler, J.A. (2003) How to Live 365 Days a Year, Boston: Running Press.
- 11. Sports Medicine by Dr. Neeraj Pratap Singh, Khel Shahitya Kendra, New Delhi.

SEMESTER V - PAPER II

| Course Code: PE 302 (E020502T) | Year: Third | Semester: Fifth |
|--|-------------|-----------------|
| Course Title: Kinesiology and Biomechanics in Sports | | |

Course outcomes:

- Students will be able to understand various aspects of Kinesiology and Biomechanics in Sports and able to apply them in sports activities.
- Students will learn about the locomotion aspects of Human body.
- Students will be able to understand the various mechanical principles and their applicability in different sports situations.

| different sports situations. | | | | |
|------------------------------|---|---------|--|--|
| Unit | Topics | Credits | | |
| I | Introduction: Meaning, Definitions, Aims & Objective of Kinesiology. Importance of Kinesiology for games and sports. | 4+0 | | |
| II | Fundamental Movements of Human body.Center of Gravity.Line of Gravity. | | | |
| III | Axis and Planes.Types of Muscle Contraction. | | | |
| IV | Major Muscles at Various Joints: Upper extremity – shoulder girdle, shoulder joint, elbow joint. Lower extremity – Hip joint, knee joint, ankle joint. Major muscles of Neck and Torso | | | |
| v | Motion: • Newton's Laws of Motion Friction: • Meaning, Definitions and Types. | | | |
| VI | Force: • Meaning, Definition & Types of Force. • Application of force in sports activities. Levers: • Meaning & Definition of Levers. • Uses of Lever in the Human body movements and sports activities. | | | |
| VII | Kinematics: Meaning of Kinematics. Types- Linear and Angular. Meaning of Speed, Velocity, Acceleration, Distance & Displacement. | | | |
| VIII | Kinetics: Meaning of Kinetics Types- Linear and Angular. Meaning of Mass, Weight, Momentum and Pressure. | | | |

Course Code: PE 303 (E020503P)

- 1. Bartlett, R. (2007), Introduction to Sports Biomechanics. Routledge Publishers, USA.
- 2. Blazevich, A. (2007), Sports Biomechanics. A & C BlackPublishers, USA.
- 3. Breer & Zarnicks (1979), Efficiency of human movement. WIB Sounders Co. USA.
- 4. Hamill, J. and Knutzen, K.M. (2003), Biomechanical Basis of Human Movement. Lippincott Williams and Wilkins, USA.
- 5. Hay (1993), The biomechanics of sports techniques, Prentice Hall Inc. NewJersey.
- 6. McGinnis, P. (2004), Biomechanics of Sports & Exercise. Human Kinetics, USA.
- 7. Oatis, C.A. (2008). Kinesiology, 2nd Ed. Lippincott, Williams & Wilkins, USA.

SEMESTER V - PAPER III

Semester: Fifth

Year: Third

| | Course Title: Rehabilitation and Sports | | |
|--------|---|--------|--|
| Course | Outcomes: | | |
| • S | tudents will be able to understand a basic concept of managing sports injuries. | | |
| • T | o understand the therapeutic approach of rehabilitation after sports injuries. | | |
| • T | o learn about the use of therapeutic modalities and therapeutic body movements. | | |
| Unit | Topics | Credit | |
| | Part-A | 0+2 | |
| I | Practice for Bandaging. | | |
| | Practice for massage techniques. | | |
| | Demonstration of Therapeutic Exercise. | | |
| | A visit to Physiotherapy lab/centre/clinic. | | |
| | Write a Brief Report on the visit of the lab/centre/clinic. | | |
| | Part-B | | |
| II | Therapeutic Exercises: | | |
| | Muscles Strengthening Exercises. | | |
| | General Principles of Muscle Strengthening. | | |
| | Manual-Muscle strength testing. | | |
| | Stretching and Mobilizing Exercises: | | |
| | Factors causing Limitation of joint Range. | | |
| | General stretching methods, and | | |
| | Practical demonstration of exercises for mobilizing the shoulder, elbow, wrist, hip knee, ankle and foot. | | |

- 1. Donatelle, R.J. and Ketcham P. (2007), Access to Health, Benjamin Cummings, Boston, USA.
- 2. Fahey, T.D., M.P. Insel and W.T. Rath (2006), Fit & Well: Core Concepts and Labs in Physical Fitness, Mcgraw Hill, New York.
- 3. Koley, Shymlal (2007) Exercise Physiology A basic Approach, friends publication NewDelhi
- 4. Pande, P. K. (1987) Outline of Sports Medicine (New Delhi: Jaypee Brothers).
- 5. Roy, Steven and Richard, Irvin (1983) Sports Medicine, Benjamin Cummings, Boston, USA.

SEMESTER V - PAPER IV

| Course Code : PE 304 (E020504P) | Year: Third | Semester: Fifth | |
|-------------------------------------|-------------|-----------------|--|
| Course Title: Sports specialization | | | |

Course Outcomes:

- This course is designed to develop the understanding of the basic sports skill.
- To understand the different types of games and sports.
- To understand the achievement of the following sports.

| Unit | Торіс | Credits |
|------|--|---------|
| I | Hockey Football Cricket Boxing Chess Volleyball Swimming Badminton Tennis Basketball Table tennis Note-Choose any three from the above mention Games. | 0+2 |

Suggested readings: http://heecontent.upsdc.gov.in/Home.aspx

SEMESTER VI - PAPER I

| Course Code: PE 305(E020601T) | | Year: Third | Semester: Si | xth |
|-------------------------------|--------------------------------------|----------------------------|-----------------------------------|-----------|
| | Course Title: Research Methods | | | |
| Course outo | comes: | | | |
| • To u | inderstand the need, scop | e and types of Research | methods in physical education | n. |
| • Stud | ents will be able to under | stand the Research method | ods in Physical Education and | Sports. |
| • Stud | ents will be able to under | stand and learn basic stat | istical procedures and its preson | entation. |
| Unit | | Topics | | Credits |
| | Introduction: | | | |
| | Definition, Meaning of Research. | | | |
| I | Need and Import | ance of Research in Phy | ysical Education and sports. | 4+0 |
| | Scope of Research | h in Physical Education a | nd sports. | |
| | Type of Research | | | |
| II | Basic Research | | | |
| | Applied Research | h | | |
| | Action Research | | | |
| | Research Problem: | | | |
| | | rm Research problem. | | |
| III | Selection and For | mulation of Research Pro | oblem. | |

| | Hypothesis: | | | |
|-------------|---|--|--|--|
| IV | Meaning of Hypothesis. | | | |
| | Meaning of Research and Null Hypothesis. | | | |
| | Survey of Related Literature: | | | |
| V | Literature sources & Library Reading. | | | |
| • | Need to survey allied and critical literature. | | | |
| | Introduction to Statistics | | | |
| | • Meaning, Definition and Importance of Statistics in Physical Education. | | | |
| VI | Types of Data, Tabular and Graphical representation of data. | | | |
| | Questionnaire and Interview: | | | |
| 3/11 | Meaning of Questionnaire and Interview. | | | |
| VII | Procedure of making Questionnaire and conducting Interview. | | | |
| | Research Report: | | | |
| VIII | Meaning of Research Report. | | | |
| | Qualities of a good research report | | | |

Course Code: PE 306 (E020602T)

- 1. Author's guide: Research Methods applied to Health Physical and Recreation, Washington, D.C. 1991.
- 2. Best John & Kahni, J.V. 1992), Research in Education, New Delhi. Prentice Hall of India (Pvt.) Ltd.
- 3. Best, J.W. (1963), Research in education. U.S.A.: Prentice Hall.
- 4. Clarke, H. H., & Clarke, D. H. (1975), Research process in physical education, Englewood cliffs, New Jersey: Prentice Hall, Inc.
- 5. Garrett, H.E. (1981), Statistics in psychology and education. New York: Vakils Feffer and Simon Ltd.
- 6. Koul, L. (2002), Methodology of Educational Research, Vikas Publishing House, New Delhi.
- 7. Oyster, C. K., Hanten, W. P., & Llorens, L. A. (1987), Introduction to Research: A guide for the health science professional. Landon: J.B. Lippincott Company.
- 8. Thomas, J.R., & Nelson J.K. (2005), Research method in physical activity. U.S.A: Champaign, IL: Human Kinetics Books.
- 9. Thomas, J.R., Nelson, J.K. & Silverman, S.J. (2011), Research method in physical activity. U.S.A: Champaign, IL: Human Kinetics Books.
- 10. Verma, J. P. (2000), A textbook on sports statistics. Gwalior: Venus Publication

SEMESTER VI - PAPER II

Year: Third

Course Title: Physical Education For Divyang

Semester: Sixth

| Course of | outcomes: | |
|--|---|---------|
| • This course will help the students to understand the needs of the DIVYANG people in relation to physical education. | | |
| • To | learn and tackle any situation while dealing DIVYANG people. | |
| | is course also leads to understand the inclusion of DIVYANG people in sports. understand the total concept of adapted physical education. | |
| Unit | Topics | Credits |
| | Introduction:Meaning and Definition of Divyang. | 4+0 |

| | Adapted Physical Education Part A: | |
|------|--|--|
| II | Definition and Concept of Adapted Physical Education. | |
| | Principles of Adapted Physical Education. | |
| | Adapted Physical Education Part B: | |
| III | Need and Goals of Adapted Physical Education | |
| | Objectives of Adapted Physical Education. | |
| | Adapted Physical Education Part C: | |
| IV | Benefits of Adapted Physical Education | |
| | Role of Yoga in Adapted Physical Education. | |
| V | Physical Activities for Divyang: | |
| | Outdoor activities for the divyang people. | |
| | Rhythmic, Aquatic and Dance Activities for divyang people. | |
| | Physical activities for the children with unique needs. | |
| | Disability and Rehabilitation: | |
| VI | Types and Causes of Physical Disabilities. | |
| | Functional and Occupational rehabilitation. | |
| | Psycho-social Rehabilitation. | |
| | Programs: | |
| VII | Personality Development Program for Divyang people. | |
| | Social Welfare Program for Divyang people. | |
| | Inclusion in sports for Divyang people: | |
| VIII | Recreational sports/ games. | |
| | Competitive sports/ games. | |

- 1. C, Blauwet, (2007), Promoting the Health and Human Rights of Individuals with a Disability through the Paralympic Movement. (ICSSPE,) at 21. (Blauwet- Promoting the Health).
- 2. Barton, L. (1993), Disability, empowerment and physical education, in J. Evans (ed.), Equality, Education and Physical Education. London: The Falmer Press.
- 3. Guttmann, L. (1976), Textbook of Sport for the Disabled. Oxford: HM & M Publishers.
- 4. K, DePauw & S. Gavron, (2005), Disability and Sport. (2nd Ed) Illinois: Human Kinetics.
- 5. R, Metts. (2000), Disability Issues, Trends and Recommendations for the World Bank (Washington D.C.:World Bank,).
- 6. Oliver, M. (1990), The Politics of Disablement. Basingstoke: Macmillan.
- 7. Sport England (2000), Young People with a Disability and Sport. London: Sport England.

SEMESTER VI - PAPER III

| Course Co | de: PE 307 (E020603P) | Year: Third | Semester: Sixth | |
|---|--------------------------|----------------------|-----------------|---------|
| Course Title: Research and Sports | | | | |
| Course outc | comes: | | | |
| • To learn the techniques and skills for the measurement of various types of variables. | | | | |
| Learn to conduct physical Fitness test and analysis of a sports skill. | | | | |
| • To 1 | earn and understand abou | ut Paralympics games | • | |
| Unit | | Topics | | Credits |
| | | Part-A | | |

| | Research Perspective to learn the measurement of variables and analysis | 0+2 | |
|----|---|-----|--|
| I | of sport skill: | | |
| | Learn to measure Anthropometric Variables. | | |
| | Learn to measure Physiological Variables. | | |
| | Learn to measure Psychological Variables. | | |
| | Learn to conduct a Physical Fitness Test. | | |
| | Learn to analyze a skill of selected game/sport | | |
| | Part-B | | |
| | Paralympics Committee of India (PCI) | | |
| II | Historical development of Paralympics. | | |
| | Aims and Objectives of PCI. | | |
| | Types of Para-competitions. | | |

Course Code: PE 308(E020604P)

- 21. ACSM's Guidelines for Exercise Testing and Prescription (2001), American Collegeof Sports Medicine, New York, U.S.A.
- 22. Anspaugh, D.J., G. Ezell and K.N. Goodman (2006) Teaching Today Health, Mosby Publishers, Chicago (USA
- 23. Donatelle, R.J. and Ketcham P. (2007), Access to Health, Benjamin Cummings, Boston, USA. 24. Flyod, P.A., S.E. Mimms and C. Yelding (2003) Personal Health: Perspectives and Lifestyles, Thomson, Wadsworth, Belmont, California, USA.
- 24. Test and Measurement & Evaluation in Physical Education & Sports by B.R. Gangawar Published by Ashoka Publication.

SEMESTER VI - PAPER IV

Semester: Sixth

Year: Third

| Course Title: Traditional Games and sports | | | |
|--|---|--------|--|
| Course | Outcomes: | | |
| • Th | is course is designed to develop the understanding of the basic sports skill. | | |
| • To | understand the different types of traditional games and sports in india. | | |
| • To | understand the achievement of the playears. | | |
| Unit | Topics | Credit | |
| I | Athletics Kho-Kho Kabaddi Gilli danda Wristling Mallakhamba Atya patya Note-Choose any three from the above mention Games. | 0+2 | |
| 00 | sted Readings: stive digital platforms web links- http://heecontent.upsdc.gov.in/Home.aspx | | |