Appendix-40 AC dated 12.07.2024

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES

Revised Course Structure NEP-2020

UGCF: Bachelor of Science in Physical Education, Health Education and Sports (Hons.) B.Sc (P.E, H.E & S) (Hons.)

| Semester | Discipline Specific Course (DSC) | Discipline Specific Elective (DSE) | Generic Elective (GE) | Ability Enhancement Course (AEC) | Skill Enhancement Course (SEC) | Internsh ip/Appr enticeshi p/Projec t (2) | Value Addition Course (VAC) | Total Credits |
|----------|--|--|--|---|--|---|---|------------------|
| Ι | DSC-1 (4): History and Foundation of Physical Education DSC-2 (4): Anatomy and Physiology DSC-3(4): Fundamentals of Game 1* : (Choose any one Game as per the list & availability of the facilities) * | | Choose one from a pool of courses BSc-PE-GE- 1(4) 101: Fitness & Wellness** BSc-PE-GE- 1(4) 102: Gym Management | Choose one from a pool of AEC courses(2) English/ Hindi/ EVS | Choose one from a pool of courses (2) | | Choose one from a pool of courses (2) | 22 Credits |

| II. | DSC-4 (4): Health Education DSC-5 (4): Exercise Physiology -DSC - 6 (4): Fundamentals of Game 2* (Choose any one Game as per the list that hasn't been chosen in Sem I & as per availability of the facilities) * | | Choose one from a pool of courses BSc-PE-GE- 2(4)- 201: Stress Management BSc-PE-GE- 2(4)- 202: Professional Preparation and Career Avenues in Physical Education and Sports** | Choose one from a pool of AEC courses (2) English/ Hindi/ EVS | Choose one from a pool of courses (2) | | Choose one from a pool of courses (2): | 22 Credits |
|-----|--|---|---|--|--|------------------------|--|---------------|
| | Students on exit sh | all be awarded underg | aduate Certificate (Credits in Sen | | sciplinary Study) af | ter securing t | he requisite44 | |
| Π | DSC-7 (4): Kinesiology DSC-8 (4): Exercise & Sports Psychology DSC-9 (4): Professional Preparation and Career Avenues in Physical Education and Sports | Choose one DSE from a pool of Courses OR Choose One GE (GE-3) DSE-1 (4) 101- Optional Game 1* * (Select any one game (as per the list) * that hasn't been chosen before in Sem I & II as DSC & as per the facility available) | BSc-PE-GE- 3(4) 301: Olympic Education BSc-PE-GE- 3(4) 302: Media in Physical Education and Sports | Choose one from a pool of AEC courses (2) | Choose one S Internsh Apprentice Project/ Com Outreach | ip/ ship/ munity | Choose one from a pool of courses (2) | 22 Credits |

| | | ((i) Athletics (ii) Badminton (iii) Basketball (iv) Cricket (v) Football, (vi) Gymnastics (vii) Handball (viii) Hockey (ix) Judo (x) Kabaddi (xi) Kho-Kho (xii) Volleyball (xiii) Yoga (xiv) Swimming (xv) Wrestling (xvi) Table Tennis | | | | | |
|----|---|--|--|---|--|---|---------------|
| IV | DSC-10 (4): Sports Sociology DSC-11 (4): Sports Biomechanics DSC-12 (4): Exercise Prescription for Fitness and Health | Choose one DSE from a pool of Courses OR Choose One GE (GE-4) DSE-2(4)-201: Optional Game 2* Optional Game 2 (Select any one game (as per the list) * that hasn't been chosen before in Sem I, II & III as DSC/DSE & as per the facility available) ((i) Athletics (ii) Badminton | BSc-PE-GE- 4(4)-401: Yoga and Stress Management BSc-PE-GE- 4(4)-402: Introduction to Injury Prevention and Rehabilitation ** | Choose one from a pool of AEC courses(2) | Choose one SEC or Internship/ Apprenticeship/ Project/ Community Outreach (2): | Choose one from a pool of courses (2) | 22 Credits |

| | | (iii) Basketball (iv) Cricket (v) Football, (vi) Gymnastics (vii) Handball (viii) Hockey (ix) Judo (x) Kabaddi (xi) Kho-Kho (xii) Volleyball (xiii) Yoga (xiv) Swimming (xv) Wrestling (xvi) Table Tennis | | | | | |
|----------|---------------------------------|--|---|-------------------|------------------------------|-----------------|---------|
| Students | s on exit shall be awarded | | ploma (in the field redits on completion | | ary Study) after securing th | ne requisite 88 | 5 |
| V | DSC-13 (4): | Choose one from | Choose one | on or semester IV | Choose one SEC or | | 22 |
| | Organization& | the pool of | from a pool | | Internship/ | | Credits |
| | Administration in | courses- | of courses | | Apprenticeship/ | | |
| | Physical Education & | | BSc-PE-GE- | | Project/ Community | | |
| | Sports | DSE-3(4)-301: | 5(4)-501: | | Outreach (2): | | |
| | | Game of | Lifestyle | | | | |
| | DSC -14 (4): | Specialization | Management | | | | |
| | Fundamentals of | Game - I * | Through | | | | |
| | Sports Nutrition | (Select any one | Physical | | | | |
| | | game from the | Education | | | | |
| | DSC -15 (4): Athlete | games already | | | | | |
| | Care & | studied from | BSc-PE-GE- | | | | |
| | Rehabilitation | Sem I to IV as | 5(4)- 502: | | | | |
| | | DSC/DSE Game) | History and Ecundations of | | | | |
| | | | Foundations of Physical | | | | |
| | | DSE-3(4)-302: | Physical Education** | | | | |
| | | Sports | Euteation | | | | |
| | | Journalism | | | | | |
| | | | | | | | |
| | | DSE -3(4) -303: | | | | | |
| | | Sports Facility | | | | | |

| | | Planning and | | | | | |
|-----|-----------------------------|---------------------------------------|---|------------------|------------------------------|----------------------------|---------|
| | | Management | | | | | |
| VI | DSC -16 (4): | Choose one from | Choose one | | Choose one SEC or | | 22 |
| | Fundamental of | a pool of Courses | from a pool | | Internship/Apprenticeshi | | Credits |
| | Sports Training | | of courses | | p/ Project/ | | |
| | | DSE -4(4) -401: | BSc-PE-GE- 6(4)- 601: | | Research/Community | | |
| | DSC -17 (4): Test, | Game of | Obesity and | | Outreach(2) | | |
| | Measurement & | Specialization – | Weight | | | | |
| | Evaluation in Sports | I* (Teaching and Coaching) | Management | | | | |
| | DSC -18(4): Fitness | (Game to | BSc-PE-GE-6(4)- | | | | |
| | and Wellness | continue from | 602: | | | | |
| | Management | Sem V) | Fundamentals Of | | | | |
| | | Sem () | Game/ Sports** | | | | |
| | | DSE -4(4) -402: | • | | | | |
| | | Research | (Choose any one | | | | |
| | | Methods in | Any one | | | | |
| | | Physical | Game/sports as | | | | |
| | | Education and | per the facility | | | | |
| | | Sports | available in the | | | | |
| | | | college) | | | | |
| | | DSE-4(4)-403: | | | | | |
| | | Sports Field | | | | | |
| | | Technology | | | | | |
| | Students on exit shall be a | warded Bachelor of | | | tudy) after securing the req | uisite 132 cre | dits on |
| | | | Completion of S | emester VI | | Γ | |
| VII | DSC-19 (4): Strength | Choose three | BSc-PE-GE-7(4) | | | Dissertatio | 22 |
| | and Conditioning | DSE (3X4) | BSc-PE-GE-7(4) 701-Sports for Leisure and | | | n on | Credits |
| | | Courses | Recreation | | | Major(4+2) | |
| | | OR Characteria | | | | <u>OR</u> Dimensionalis | |
| | | Choose two | | | | Dissertatio | |
| | | DSE- (2X4) and one GE (4) | BSc-PE-GE-7(4) | | | n on Minor(4+2) | |
| | | Courses | 702- Introduction Sports Training* | n to | | $\frac{OR}{OR}$ | |
| | | Or | • | | | <u>OR</u> Academic | |
| | | Choose one DSE | BSc-PE-GE-7(4) 703- Managemer | | | Project/ | |
| | | (4) and two GE | and Marketing in | <mark>n –</mark> | | Entreprene | |
| | | (2x4) Courses | Physical Educati | on | | urship(4+2 | |
| L | | · · · · · · · · · · · · · · · · · · · | | | | r v – | |

| | | (total=12) | | |) | |
|-----|-----------------------------------|---|---|--|---|---------------|
| | | DSE 5 (4) 501 Game of Specialization II * (select any Game already studied in Sem I to IV as DSC or DSE, but other than studied in Sem V & VI) | | | | |
| | | DSE-6(4): 502 Applied Statistics in Sports | | | | |
| | | DSE-7(4): 503 Research Methods in Physical Education and Sports | | | | |
| | | DSE-8(4)-504: Ergogenic Aids and Doping in Sports | | | | |
| VII | -DSC-20 (4): Sports Management | Choose three DSE (3X4) Courses OR Choose two DSE- (2X4) and one GE (4) Courses OR | BSc-PE-GE-8(4): 801- Strength and Conditioning BSc-PE-GE-8(4): 802- Adventure Sports | | Dissertatio n on Major (6) <u>OR</u> Dissertatio n on Minor (7) | 22 Credits |
| | | Choose one DSE (4) and two GE | BSc-PE-GE-8(4): | | <u>OR</u> Academic | |

| | (2x4) Courses (total=12) DSE- 9(4):601Game of Specialization II* (Teaching and Coaching) (Game to continue form Sem. VII) DSE-10(4): 602- Research Ethics in Physical Education and Sports DSE-11(4): 603- Adapted Physical education DSE-12(4) 604- Adventure Sports | 803- Physical Education for Inclusiveness | | Project Entreprene urship (8) | TOTAL |
|--|--|---|--|--|-----------------|
| | | | | | CREDITS =176 |

*LIST OF GAMES (Choose as per the facility available)

(i) Athletics, (ii) Badminton,(iii) Basketball, (iv) Cricket ,(v) Football, (vi) Gymnastic, (vii) Handball, (viii) Hockey, (ix) Judo, (x) Kabaddi, (xi) Kho-Kho , (xii) Volleyball, (xiii) Yoga, (xiv) Swimming. (xv) Wrestling (xvi) Table Tennis

** GE (Compulsory to opt for Minor in Physical Education)

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES UGCF: B.SC. PHYSICAL EDUCATION, HEALTH EDUCATION AND SPORTS (HONS.) <u>NEP-2020</u>

B.Sc (PE, HE & S) Hons.

| SEMESTER | COURSE | CONTENT /CREDITS * |
|----------|--|--|
| I | Discipline Specific Course (DSC) | DSC-1 (4): History and Foundation of Physical Education |
| | | DSC-2 (4): Anatomy and Physiology |
| | | DSC-3(4): Fundamentals of Game 1** ((Choose any one Game as per the list & availability of the facilities) * |
| | Discipline Specific Elective | NONE |
| | (DSE) | |
| | Generic Elective (GE) | Choose one from a pool of courses (of other Departments) (4) |
| | Ability Enhancement Course (AEC) | Choose one from a pool of AEC courses(2) English/ Hindi/ EVS |
| | Skill Enhancement Course (SEC) | Choose one from a pool of courses (2) |
| | Internship/Apprenticeship/Project (2) | NONE |
| | Value Addition Course (VAC) | Choose one from a pool of courses (2) |
| | | Total Credits= 22 |

* (FIGURE IN BRACKETS DENOTE CREDITS)

****LIST OF GAMES (Choose as per the facility available)**

(i) Athletics, (ii) Badminton,(iii) Basketball, (iv) Cricket ,(v) Football, (vi) Gymnastic, (vii) Handball, (viii) Hockey, (ix) Judo, (x) Kabaddi, (xi) Kho-Kho , (xii) Volleyball, (xiii) Yoga, (xiv) Swimming. (xv) Wrestling (xvi) Table Tennis

SEMESTER I

SEMESTER I BSc-PE-DSC-1 (4): HISTORY AND FOUNDATIONOF PHYSICAL EDUCATION

| Course Title & Code | Credits | Cred | Credit distribution of the Course | | | Pre-requisite of the course |
|------------------------|---------|---------|--------------------------------------|------------|---------|--------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| BSc-PE-DSC-1 | 4 | 3 | 1 | 0 | Pass in | NIL |
| (4): HISTORY | | | | | XII | |
| AND | | | | | | |
| FOUNDATION | | | | | | |
| OF | | | | | | |
| PHYSICAL | | | | | | |
| EDUCATION | | | | | | |

Learning Objectives

To provide the knowledge of historical development of Physical Education & Sports and to familiarize the students with foundations of Physical Education & Sports in reference to biological, psychological, sociological and other foundations

Learning outcomes At the end of the course student will be able to::

- Acquire the knowledge of history & foundations of Physical Education and understand the purpose & development of physical education & sports.
- Develop the understanding and knowledge regarding meaning, definitions, scope, importance of physical education in society, Aim and Objectives of Physical Education and their relation with education.
- Learn Biological, Psychological and Sociological Foundation of physical education.
- Learn to assess the body types by Heath & Carter method.
- Develop the understanding and knowledge of meaning& concepts of movement, qualities of the movements, fundamentals movements, Need and importance of movement in educational programs, Concept and role of wellness movement.
- Knowledge of the Modern and Ancient Historical development of Olympic movement and Olympic Games.

THEORY SYLLABUS (45 HOURS)

UNIT-I

(10 hours)

(15 hours)

- (i) Meaning, Definitions, Scope, and importance of physical education in society.
- (ii) Aim and Objectives of Physical Education and their relation with education.

UNIT-II

- (i) Foundations of Physical Education
- (a) Biological foundation–Introduction, Growth and Development, and Body types.
- (b) Psychological Foundation–Introduction, Learning process, and theories.
- (c) Sociological Foundation–Introduction, Socialization process.

UNIT-III

(10 hours)

(10 hours)

(i) Meaning & concepts of movement, qualities of the movements, fundamentals of movements, Need and importance of movement in educational programs

(ii) Concept and role of the wellness movement.

UNIT-IV

- (i) Modern and Ancient Historical perspectives of Physical Education: Greece, Rome and India.
- (ii) Olympic movement and Olympic Games (Ancient and Modern)
- (iii) National Sports Awards and Honors.

SUGGESTED READINGS:

- 1. Gupta,Rakesh(2013),HealthandPhysicalEducation,PinnacleIndiaEd ucation Publisher, New Delhi.
- 2. Lumpkin, A. (2007). Introduction to Physical Education, Excises Science and Sports Studies, McGraw Hill. New York, USA.
- 3. UppalAK&GautamGP(2008).HealthandPhysicalEducation.FriendsPubli cation. New Delhi.
- 4. VanaikA.&Tyagi,Sarita(2018).EncyclopediaofOlympicMovement,Friends Publication. New Delhi
- 5. VanaikA.(2005)SharirikShikshakeMaulikAdhar,FriendsPublication.NewDelhi
- Wuest DA and Bucher CA (2003). Foundations of Physical Education Exercise Science and Sports. McGraw Hill Companies, Inc., New York, USA.
- 7. Zeigler EF (2007). History and Status of Physical Education and Educational Sports .Sports Education. New Delhi.
- 8. Singh, Ajmer et.al (2012), Essentials of Physical Education, Kalyani publishers, New Delhi.
- 9. Kamlesh, M.L (2013), Foundations of Physical Education, Sports

4

publication, New Delhi.

- 10. Kanwar, Chand Ramesh (2010), Principles and History of Physical Education, Amit Brothers publication.
- Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

SEMESTER I BSc-PE-DSC-2 (4): ANATOMY AND PHYSIOLOGY

| Coursetitle& Code | Credits | Cred | Credit distribution of the course | | | Pre-requisite of the course |
|--|---------|---------|-----------------------------------|------------------------|----------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| BSc-PE-DSC-2 (4): ANATOMY AND PHYSIOLOGY | | 3 | 0 | 1 | Pass in XII | NIL |

Learning Objectives

To provide students with the basic knowledge of anatomical structures & functions of human body.

Learning Outcomes At the end of the course student will be able to::

- 1. Acquire the basic knowledge of the anatomy of the human body.
- 2. Develop understanding about the functions of each system of the body.
- 3. Acquire knowledge and skill will help to create a strong foundation to engage human subject of all ages, sex, abilities.

THEORY SYLLABUS (45 HOURS)

UNIT-I (10 hrs.)

• Definition of Anatomy & Physiology, Cell- microscopic structure & functions of

its organelle.

- Tissue-classification & functions.
- Organs, systems of the body,
- Bone-classification and structure, joints classification,
- Structure of synovial joints. Movements at various joints.

UNIT-II (15 hrs.)

• Muscular System-Classification, Structure, functions & properties of Skeletal Muscle,

Smooth Muscle & Cardiac Muscle.

- Types of muscular contractions, Name of various muscles acting on various joints.
- Cardio-vascular system structure of heart, cardiac cycle, blood

pressure, cardiac

output, composition & functions of blood

UNIT-III (10 hrs.)

- Respiratory system- structure and function, second wind, oxygen debt.
- Digestive system-structure & function, balanced diet, an overview of

Carbohydrate, Protein and Lipid metabolism

• Maintenance of body temperature.

UNIT-IV (10hrs.)

• Nervous system -structure of brain, spinal cord, Autonomic nervous system, reflex

action.

• Endocrine system of various endocrine glands, Structure & function of the human

eye and ear.

- Excretorysystem-structure&function,includingstructure&functionofskin.
- Reproductivesystem-structure&functionofmale&femaleReproductivesystem.

Practical Syllabus:-(30 HOURS)

- 1. Counting of pulse rate
- 2. Study of various bones of the human body
- 3. Study of different body systems with the help of models
- 4. Study of various movements of the joints.

SUGGESTED READINGS:

- 1. Jain AK (2002). Anatomy & Physiology for Nurses. Arya Publishers, Delhi.
- Moried EN(2007).Essential of Human Anatomy & Physiology.Ed.8thDorling Kindersley, India.
- 3. Prives Mand and Others(2004). Human Anatomy Vol. I& IIP aragon, Delhi.
- 4. Seeley & Others(2008). Anatomy & Physiology. McGrawHill, Boston.
- 5. Tortora (2017) Principles of Anatomy & Physiology, NewYork: JohnWilly& Sons.
- 6. William CS (2000). Essentials of Human Anatomy & Physiology, Benjamin
- 7. Dutta, Tapan (2015), Anatomy and physiology for Two years B.P.Ed. Programme Semester -1, Siddhart publication, Nagpur.
- 8. Kanwar, Chand Kanwar (2011), Amit brother's publications.
- 9. Routhan, Tarun (2018), Essentials of Exercise Physiology, Sports Publication, Sports publication.
- 10. Wilson and Ross (2006), Anatomy and Physiology in Health and illness, Churchill Livingstone.

SEMESTER 1 BSc-PE-DSC-3(4): FUNDAMENTALS OF GAME 1

(Choose any one Game as per the list & availability of the facilities) * *(i) Athletics(ii) Badminton(iii) Basketball,(iv) Cricket (v) Football(vi) Gymnastic(vii) Handball(viii) Hockey

(ix) Judo(x) Kabaddi (xi) Kho-Kho (xii) Volleyball (xiii) Yoga (xiv) Swimming (xv) Wrestling (xvi) Table Tennis

| Course title | Credits | Credit | distributio | n of the | Eligibility | Pre- |
|---------------------|---------|---------|-------------|-------------|-------------|--------------|
| & Code | | | course | | criteria | requisite of |
| | | Lecture | Tutorial | Practical/P | | the course |
| | | | | ractice | | (if any) |
| BSc-PE- | 4 | 2 | 0 | 2 | Class XII | Nil |
| DSC-3(4): | | | | | pass | |
| FUNDAME | | | | | | |
| NTALS OF | | | | | | |
| GAME 1 | | | | | | |

Learning Objective:-The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome:-The student will attain knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

THEORY SYLLABUS(30 Hours)

UNIT-I

• Historical Development and Modern Trends in the game (National and International

Level)

- Organizational Structure (State, National, and International Level)
- Introduction to Playfield/arena of the game/ athletic Track& field events/ Yogic arena

UNIT-II

- Rules and their interpretation of the chosen sports/ Track & field events/ Yogic Asanas
- Basis of Warming up and cooling down and its effect
- Role of coach in preparing players/Teams

UNIT-III

• Basic skills and techniques of the chosen Game/ Yogic Asanas/Athletic Events (short,middleandlong-distanceraces,hurdlesraces,jumpingevents-longjump & High Jump, throwing events-shot-put, discuss & Javelin)

• Developmental Drills / **Preparatory Exercises** to improve skills of the Game/event/Asanas

UNIT-IV

(07 Hours)

(08 Hours)

(08 Hours)

(07 Hours)

• Introduction to Fitness components related to sports / athletic events/yoga

• Role of Fitness & skill related fitness components of the chosen game in improving performance

PRACTICAL SYLLABUS (60 Hours)

- 1. Learning and demonstrating various skills/techniques of the chosen Game
- 2. Drills to improve Fundamental skills of the chosen game (for athletics/ Gymnastics any three events)
- 3. Marking of Playfield/ arena of chosen game (for athletics / Gymnastics any three events)

SUGGESTED READINGS:

- Gothi E(2004). Teaching & Coaching Athletics . Sport Pub, New Delhi.
- Gupta R.(2004).Layout & Marking of Track & Field. Friends Publications. India. New Delhi.
- Handbook-RulesandRegulation.InternationalAthleticFederation(2010).
- HerbAmato,DAATCetal(2002).Practical Exam Preparation Guide of Clinical Skills of Athletic Training. Slack Incorporated.1sted.,USA.
- Kumar, Pardeep. (2008). Historical Development of Track & Field. Friends Publication. New Delhi
- Maughan, R. and Gluson, M. (2004). The Biomechanical Basics of Athletic Performance.

Oxford University Press,U.K.

- Renwick GR(2001).Play Better Athletics. Sports Pub, Delhi.
- Singh, Hardayal.(2019).Science of Sports Training.DVS Publication, N.Delhi.
- VanaikA.(2017).OfficiatingandCoaching,FriendsPublication.NewDelhi.
- Elliott R., (2011). Runners on Running: The Best Nonfiction of Distance Running, Human Kinetics, UNITed States of America.
- Galloway J., (2011). Cross Country Running, Mayer & Mayer Sport, UNITed Kingdom.
- Galloway J., (2012). 100 Reasons to Run, Mayer & Mayer Sport, United Kingdom.
- Thani L., (2018). Skills & tactics field athletics, sports publication, New Delhi
- Singh, Hardayal.(2019).Science of Sports Training. D V S Publication, N.Delhi.
- Vanaik A.(2017).Officiating and Coaching, Friends Publication .NewDelhi

SEMESTER II

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES UGCF: B.SC. PHYSICAL EDUCATION, HEALTH EDUCATION AND SPORTS (HONS.) NEP-2020

B.Sc (PE,HE & S) Hons.

| SEMESTER | COURSE | CONTENT /CREDITS * |
|----------|--|--|
| Π | Discipline Specific Course (DSC) | DSC-4 (4): Health Education DSC-5 (4): Exercise Physiology -DSC - 6 (4): Fundamentals of Game 2** (Choose any one Game as per the list that hasn't been chosen in Sem I & as per availability of the facilities) |
| | Discipline Specific Elective (DSE) | NONE |
| - | Generic Elective (GE) | Choose one from a pool of courses (of other Departments) (4) |
| | Ability Enhancement Course (AEC) | Choose one from a pool of AEC courses (2) English/ Hindi/ EVS |
| | Skill Enhancement Course (SEC) | Choose one from a pool of courses (2) |
| | Internship/Apprenticeship/Project (2) | NONE |
| | Value Addition Course (VAC) | Choose one from a pool of courses (2) |
| | | Total Credits= 22 |

(FIGURE IN BRACKETS DENOTE CREDITS)

****LIST OF GAMES (Choose as per the facility available)**

(i) Athletics, (ii) Badminton,(iii) Basketball, (iv) Cricket ,(v) Football, (vi) Gymnastic, (vii) Handball, (viii) Hockey, (ix) Judo, (x) Kabaddi, (xi) Kho-Kho , (xii) Volleyball, (xiii) Yoga, (xiv) Swimming. (xv) Wrestling (xvi) Table Tennis

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SEMESTER-II

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES B.SC.(HONS.) IN PHYSICAL EDUCATION, HEALTH EDUCATION AND SPORTS BSC-PE-DSC-4(4): HEALTH EDUCATION

Course title & Credits Credit distribution of the Eligibility Pre-Code course criteria requisite of Lecture Practical/P Tutorial the course ractice (if any) 3 1 0 **BSc-PE-DSC-**4 Class XII Nil **4(4): HEALTH** pass **EDUCATION**

Learning Objective:-The learner will acquire knowledge and understanding with applications and skills (field and laboratory) in health education in real-life situations.

Learning Outcome:- At the end of the course students will be able to:

- Understand the concepts of health and related terminologies.
- Acquire knowledge about communicable and non-communicable diseases.
- Differentiate between communicable and non-communicable diseases.
- Understand the effect of substance abuse and its management
- Acquired knowledge of first aid, CPR, and first aid for, bleeding, fractures, sprain and strain (PRICER), drowning, snakebite, poisoning, heat stroke, and heat exhaustion.
- Acquire knowledge about international health agencies- WHO, UNICEF, RED CROSS- their constitution and role in promoting health.

THEORY SYLLABUS (45 HOURS)

UNIT I (11 HOURS)

- (i) Health-Meaning, Dimensions of Health And Their Interrelationships, The Importance of Health For Individual, Family, CommUNITy, And Nation; Factors Influencing Health, The Spectrum Of Health
- (ii) Health Education- Meaning, Scope, Aims And Objectives, Principles, Methods And Media Used In Health Education.
- (iii) Personal Hygiene, Food Hygiene, Environmental Hygiene Meaning, Need And Importance; Associated Practices Related To Maintenance And Promotion Of Health

UNIT -II (11 HOURS)

i. Communicable And Non – Communicable Diseases-Distinction Between Communicable And Non-Communicable Diseases.

- ii. Communicable Diseases-Definition, Mode Of Spread And Prevention,
- iii. Non-Communicable Diseases--Meaning, Causes, And Preventive Measures

UNIT-III (11 HOURS)

- (i) Contemporary Health Problems of College Youth
- (ii) Substance Abuse Management-Alcohol, Drugs, Tobacco (Chewing, Sniffing, Smoking)-Their Harmful Effects
- (iii) Population Education Importance Of Small Families, Methods Of Controlling Conception
- (iv) Care Of The Infant, The Importance Of Breastfeeding, Immunization, Oral Rehydration Therapy (ORS)

UNIT-IV (12 HOURS)

- (i) Definition Of First Aid, DRABCH Of First Aid, CPR, First Aid For, Hemorrhage, Fractures, Sprain And Strain (PRICER), Drowning, Snakebite, Poisoning, Heat Stroke, And Heat Exhaustion.
- (ii) International Health Agencies- WHO, UNICEF, Red Cross- Their Constitution And Role In Promoting Health.

SUGGESTED READINGS-

- 1. Anspaugh DJ Ezell Gand Goodman KN (2006). Teaching Today's Health. Mosby Publishers.Chicago.USA.
- 2. Balayan D (2007). Swasthya Shiksha Evam Prathmik Chikitsa. Khel Sahitya. Delhi.
- Chopra D and D Simon (2001). Grow Younger, Live Longer: 10 Steps to Reverse Aging. Three Rivers Press. New York. USA.
- 4. Dewan A P (1996).School Health Manual. Nature Cure and Yoga Health Centre. New Delhi.
- 5. Dixit Suresh(2006). Swasthya Shiksha. Sports Publication. Delhi.
- 6. Donatelle R J (2005).Health the Basics. Sixth Edition.Oregon State University.
- 7. FloydPASEMimmsandCYeilding(2003).PersonalHealth:Perspectivesand Lifestyles.ThomsonWadsWorth.Belmont.California.USA.
- 8. HalesD(2005).AnInvitationtoHealth.Thomson-Wadsworth,Belmont.California.USA.
- 9. Park K (2017).Park's Text Book of Preventive & Social Medicine. Banarsi Das Bhanot & Company. Delhi.
- 10. Snehlata(2006).Shareer,VigyanEvamSwasthyaRaksha.DiscoveryPub.Houses.New Delhi.
- 11. Uppal A K & Gautam G P (2008). Health & Physical Education. Friends Publication. New Delhi.

SEMESTER II

| Course title & Code | Credits | Credit | t distributio | on of the | Eligibility criteria | Pre- requisite of |
|------------------------|---------|----------|-----------------------------|----------------|-------------------------|----------------------|
| Coue | | . | course | D (1 1) | criteria | - |
| | | Lecture | Lecture Tutorial Practical/ | | | the course |
| | | | | Practice | | (if any) |
| BSc-PE-DSC- | 4 | 3 | 0 | 1 | Class XII | NIL |
| 5(4): | | | | | pass | |
| EXERCISE | | | | | | |
| PHYSIOLOGY | | | | | | |

BSc-PE-DSC-5(4): EXERCISE PHYSIOLOGY

Learning Objective:-The learner will acquire knowledge and understanding with applications and skills (field and laboratory) in exercise physiology.

Learning Outcomes: By the end of the course, students will be able to:

1. Understand the concepts of Exercise Physiology and its significance in Physical Education and Sports.

2. Acquire knowledge about skeletal muscle's gross and microscopic structure, fiber types, acute response, chronic adaptation, and the muscular system.

3. Gain an overview of energy metabolism, including fuels for exercise, exercise duration, and fuel utilization.

4. Differentiate between aerobic and anaerobic systems.

5. Understand cardiovascular function during exercise and training.

6. Assess the various physiological parameters during rest and exercise.

THEORY SYLLABUS (45 Hours)

UNIT 1: Fundamentals and Neuromuscular Function (10 HOURS)

i.Exercise Physiology: Definition, Concept & its Significance in the Field of Physical Education & Sports

ii.Meaning of Acute Physiological Response and Chronic Physiological Adaptations

iii.Skeletal Muscles: Gross & Microscopic Structure of Skeletal Muscle, Sliding Filament Theory, Muscle fiber types, Acute Response & Chronic Adaptation and the muscular system.

UNIT 2: Energy & Hormonal Regulation (10 HOURS)

i.Overview of Energy Metabolism-Fuels of exercise, Exercise Duration and Fuel utilization

ii.Energy Systems- Aerobic & Anaerobic Systems

iii.Endocrine Glands: Hormones secreted, actions, target organ/system, and Exercise and Training Response.

UNIT3: Cardio-respiratory System and Training Adaptations (16 HOURS)

- i. Cardiovascular Function during Exercise and Training: Structure & Function of the Heart, Cardiovascular Response to Exercise and Chronic Adaptations, Athlete's heart.
- ii. Respiratory Function during Exercise and Training: Respiratory Parameters, Oxygen Debt, Second Wind, Acute Response and Chronic Adaptation.

UNIT4: Exercise and the Environment (09 HOURS)

- i. High Altitude Physiological Response, Exercise responses, and training adaptations.
- ii. Hot and Cold Environment: Physiological Responses, Exercise Response, Heat & Cold Disorders.

PRACTICAL SYLLABUS (30 HOURS)

- 1. Assessment Of Resting Heart Rate
- 2. Assessment Of Resting Blood Pressure
- 3. To Measure Vital Capacity Using Spiro-Meter
- 4. Assessment Of Heart Rate After Exercise
- 5. Administering The Harvard Step Test

SUGGESTED READINGS:

- 1. Camaione, David N.(1993). Fitness Management. WCB Brown & Benchmark.
- 2. Jakson, Allen Wand James R. Morrow (1999) Physical Activity for Health & fitnes s. Human Kinetics Publication.
- 3. Katch F. Land McArdle W.D(2010) Nutrition, Weight Control and Exercise. Philadelphia, Lea & Febiger.
- 4. Tiwari, Sandhya, (1999). Exercise Physiology. Sports Publications, New Delhi.
- 5. WilmoreJack.HandDavidL.Costill(1994).PhysiologyofSportandExercise. Human Kinetics.
- 6. G.GregoryHalf.(2012).LaboratoryManualforExercisePhysiology.USA.HumanKinetics.
- 7. W.LarryKenney, JackH.Wilmore, DevidL.Costil. (2015). Physiology of Sportsan dExercise, Second Edition. USA. Human Kinetics.
- 8. Christophe. Hausswirth, Inigo Mujika.(2013).Recovery for Performance in Sports, USA, Human Kinetics.
- 9. InigoMujika.(2009).TaperingandPeakingForOptimalPerformance.USA.HumanKinetics.
- 10. PerOlf.Astrand,Kaare.Rodahl.(2003).TextBookofWorkPhysiology:Physiological Basis of Exercise. Fourth Edition. USA. Human Kinetics.
- 11. Jonathan K.Ehrman, Dennis Kerrigan, et.al. (2017). Advanced Exercise Physiology: Essential Concepts and Applications.USA. Human Kinetics.

SEMESTER II BSc-PE-DSC-6 (4): FUNDAMENTALS OF GAME 2

(Choose any one Game as per the list that hasn't been chosen in Sem I & as per availability of the facilities) *

*(i) Athletics(ii) Badminton(iii) Basketball,(iv) Cricket (v) Football(vi) Gymnastic(vii) Handball(viii) Hockey

(ix) Judo(x) Kabaddi (xi) Kho-Kho (xii) Volleyball (xiii) Yoga (xiv) Swimming (xv) Wrestling (xvi) Table Tennis

| Course title | Credits | Credit distribution of the | | | Eligibility | Pre- |
|--------------|---------|------------------------------|---|---|-------------|--------------|
| & Code | | course | | | criteria | requisite of |
| | | Lecture Tutorial Practical/P | | | | the course |
| | | ractice | | | (if any) | |
| BSc-PE- | 4 | 2 | 0 | 2 | Class XII | Nil |
| DSC-6(4): | | | | | pass | |
| FUNDAME | | | | | | |
| NTALS OF | | | | | | |
| GAME 2 | | | | | | |

Learning Objective:-The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome:-The student will attain knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

THEORY SYLLABUS (30 Hours)

UNIT-I

- Historical Development and Modern Trends in the game (National and International Level)
- Organizational Structure (State, National, and International Level)
- Introduction to Playfield/arena of the game/ athletic Track& field events/ Yogic arena

UNIT-II

- Rules and their interpretation of the chosen sports/ Track & field events/ Yogic Asanas
- Basis of Warming up and cooling down and its effect
- Role of coach in preparing players/Teams

UNIT-III

(07 Hours)

(08 Hours)

(08 Hours)

• Basic skills and techniques of the chosen Game/ Yogic Asanas/Athletic Events (short,middleandlong-distanceraces,hurdlesraces,jumpingevents-longjump & High Jump, throwing events-shot-put, discuss & Javelin)

Developmental Drills / Preparatory Exercises to improve skills of the Game/event/Asanas
UNIT-IV (07 Hours)

• Introduction to Fitness components related to sports / athletic events/yoga

• Role of Fitness & skill related fitness components of the chosen game in improving performance

PRACTICAL SYLLABUS (60 Hours)

4. Learning and demonstrating various skills/techniques of the chosen Game

- 5. Drills to improve Fundamental skills of the chosen game (for athletics/ Gymnastics any three events)
- 6. Marking of Playfield/ arena of chosen game (for athletics / Gymnastics any three events)

SUGGESTED READINGS:

- Gothi E(2004). Teaching & Coaching Athletics . Sport Pub, New Delhi.
- Gupta R.(2004).Layout & Marking of Track & Field. Friends Publications. India. New Delhi.
- Handbook-RulesandRegulation.InternationalAthleticFederation(2010).
- HerbAmato, DAAT Cetal (2002).Practical Exam Preparation Guide of Clinical Skills of Athletic Training. Slack Incorporated.1sted.,USA.
- Kumar, Pardeep. (2008). Historical Development of Track & Field. Friends Publication. New Delhi
- Maughan, R. and Gluson, M.(2004). The Biomechanical Basics of Athletic Performance.
- Oxford University Press,U.K.
- Renwick GR(2001).Play Better Athletics. Sports Pub, Delhi.
- Singh, Hardayal.(2019).Science of Sports Training.DVS Publication, N.Delhi.
- VanaikA.(2017).OfficiatingandCoaching,FriendsPublication.NewDelhi.

• Elliott R., (2011). Runners on Running: The Best Nonfiction of Distance Running, Human Kinetics, United States of America.

- Galloway J., (2011). Cross Country Running, Mayer & Mayer Sport, United Kingdom.
- Galloway J., (2012). 100 Reasons to Run, Mayer & Mayer Sport, United Kingdom.
- Thani L., (2018). Skills & tactics field athletics, sports publication, New Delhi
- Singh, Hardayal.(2019).Science of Sports Training. D V S Publication, N.Delhi.
- Vanaik A.(2017).Officiating and Coaching, Friends Publication. New Delhi

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES UGCF: B.SC. PHYSICAL EDUCATION, HEALTH EDUCATION AND SPORTS (HONS.) NEP-2020

B.Sc (PE, HE & S) Hons.

| SEMESTER | COURSE | CONTENT /CREDITS * | | |
|----------|--|---|--|--|
| III | Discipline Specific Course (DSC) | DSC-7 (4): Kinesiology DSC-8 (4): Exercise & Sports Psychology DSC-9 (4): Professional Preparation | | |
| | | and Career Avenues in Physical Education and Sports | | |
| | Discipline Specific Elective (DSE) | Choose one DSE from a pool of Courses, | | |
| | OR Conoria Electivo (CE) | DSE-1 (4) 101-Optional Game 1** (Select any one game(as per the list) ** that hasn't been chosen before in Sem I & II as DSC & as per the facility available) | | |
| | Generic Elective (GE) | | | |
| | | OR | | |
| | | Choose one GE -3 from a pool of courses (of other Departments) (4) | | |
| | Ability Enhancement Course (AEC) | Choose one from a pool of AEC courses (2) | | |
| | Skill Enhancement Course (SEC) | Choose one SEC or Internship/ | | |
| | Internship/Apprenticeship/Project (2) | Apprenticeship/ Project/ Community Outreach (2) | | |
| | Value Addition Course (VAC) | Choose one from a pool of courses (2) | | |
| | | Total Credits= 22 | | |

* (FIGURE IN BRACKETS DENOTE CREDITS)

****LIST OF GAMES (Choose as per the facility available)**

(i) Athletics, (ii) Badminton,(iii) Basketball, (iv) Cricket ,(v) Football, (vi) Gymnastic, (vii) Handball, (viii) Hockey, (ix) Judo, (x) Kabaddi, (xi) Kho-Kho , (xii) Volleyball, (xiii) Yoga, (xiv) Swimming. (xv) Wrestling (xvi) Table Tennis

SEMESTER III

SEMESTER III DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES

UNIVERSITY OF DELHI

B.Sc. (Hons.) (Physical Education, Health Education and Sports)

SEMESTER-III

B.SC.-PE-DSC-7(4) KINESIOLOGY

| Course title & Code | Credits | Credit distribution of the course | | | Eligibility criteria | Pre-requisite of the course (if any) |
|------------------------|---------|-----------------------------------|----------|------------|----------------------|--------------------------------------|
| | | Lecture | Tutorial | Practical/ | | |
| | | | | Practice | | |
| B.SCPE- | 4 | 3 | 0 | 1 | Class XII pass | Nil |
| DSC-7(4) | | | | | | |
| KINESIOL | | | | | | |
| OGY | | | | | | |

Learning Objective: To impart the knowledge, practices, Applications, and analysis related to Kinesiology.

Learning Outcome:

1. Understand the concepts, applications, aims, objectives, and importance of kinesiology in physical education and sports, including fundamental movements and muscle classification.

2. Develop skills in the location and action of muscles at various joints (upper extremity, neck and trunk, lower extremity) and analyze muscular actions in fundamental movements.

3. Gain knowledge and application of the structure of motor actions, including cyclic and acyclic motor actions and movement combinations.

4. Acquire knowledge and apply qualities and physiological principles of movements such as movement rhythm, coupling, flow, precision, and amplitude.

5. Analyze the muscular aspects of fundamental sports skills and apply innovative applications.

THEORY SYLLABUS (45 HOURS)

UNIT-I (11 HOURS)

1. Meaning, Aim & Objectives, Importance Of Kinesiology For Physical Education And Sports

2. Fundamental Concepts: Centre of Gravity, Line Of Gravity, Axis And Planes of Motion, Fundamental Starting Positions, Terminology of Fundamental Movements, And Classification of Muscles

UNIT-II (11 HOURS)

1. Location & Action Of Muscles At Various Joints:-

- a) Upper Extremity–Shoulder Girdle, Shoulder Joints, Elbow Joint
- b) Neck, Trunk (Lumbo-Thoracic Region)
- c) Lower Extremity–Hip Joint, Knee Joint, Ankle Joint

2. Muscular Analysis of Fundamental Movements:-Walking, Running, Jumping, Throwing, Catching, Pulling, Pushing, Striking, Hanging

UNIT-III (12 HOURS)

1. Structure of Motor Actions: - Structure Of Cyclic And Acyclic Motor Action And Movement Combination,

2. Functional Relationship Of Different Phases Of Motor Action.

UNIT-IV (11 HOURS)

 Qualities & Physiological principles of movements:-Movement rhythm, Movement coupling movement flow, Precision And Amplitude.

PRACTICAL SYLLABUS (30 HOURS)

- 1. Demonstration Of Planes & Axes Of A Given Movement.
- 2. Determination Of The Location Of Muscles At Various Joints:
 - i. Shoulder Girdle
 - ii. Shoulder joints
 - iii. Elbow joint
 - iv. Hip joint
 - v. Knee joint
 - vi. Ankle joint
- 3. Muscular analysis of the techniques of the game of your specialization
- 4. Measurement Demonstration of qualities of movement.

SUGGESTED READINGS: -

- Bartlett,R.(2007).IntroductiontoSportsBiomechanics.RoutledgePublishers,USA.
- Blazevich, A. (2007). Sports Biomechanics .A&C Black Publishers, USA.
- McGinnis, P. (2004). Biomechanics of Sports & Exercise. Human Kinetics, USA.
- Shaw,D.(2014).MechanicalBasisofBiomechanics.SportsPublication:NewDelhi

• Rai,R.(2003).Biomechanics Mechanics Aspects of Human Motion. A grim Publication: Moha

• Shaw,D(2018).Pedagogic Kinesiology. Sports Publication: Delhi

• Robertson, D.G.E. Caldwell, G.E., Hamil, J.KamenG., & Whittlesey, S.N. (2014). Researc hMethods in Biomechanics. (2nded.) Edwards Brothers Malloy: USA

- Hoffman.J (2013), Introduction to Kinesiology, Human kinetics.
- Shaw Dhananjoy (2017), Pedagogic Kinesiology, Sports Publication.

• Ziegler.F Earle (2007), Physical education and Kinesiology, Sports educational technologies.

SEMESTER III

| Course title & Code | Credits | Credit distribution of the courseLectureTutorialPractical/PracticePractice | | | Eligibility criteria | Pre-requisite of the course (if any) |
|---|---------|--|---|---|-------------------------|--|
| BSc-PE-DSC - 8(4): EXERCISE & SPORTS PSYCHOLOG Y | 4 | 3 | 0 | 1 | Class XII pass | Nil |

BSc-PE-DSC-8(4) EXERCISE & SPORTS PSYCHOLOGY

Learning Objective: - The student is provided with the knowledge Practices Applications and Innovative of psychological aspects of sports performance.

Learning Outcomes:

After completing the course, the students will be able to:

• Understand Concept, Scope, role of sports and exercise psychologist, Importance of Sports and exercise psychology and Historical development and future of Sports and Exercise Psychology

- Motivate athletes
- Understand Arousal and Anxiety: Types, phenomena of Anxiety in relation to performance
- Drive Theory, Inverted U Theory and IZOF.
- Understand the concept of Personality and Team Cohesion
- Understand Aggression in sports, Leadership in Sports, psychological preparation, Goal setting and self-confidence
- Assess Motivation, Anxiety, Personality, Team Cohesion and Aggression

THEORYSYLLABUS (45 HOURS)

UNIT-I (12 HOURS)

- (i)Sports and Exercise Psychology
- (ii)Concept, Scope, role of sports and exercise psychologist
- (iii) Importance of Sports and exercise psychology
- (iv) Historical development and future of Sports and Exercise Psychology,

UNIT-II (11 HOURS)

- (i) Motivation: guidelines for building motivation, achievement motivation.
- (ii) Arousal and Anxiety: Types, phenomena of Anxiety in relation to performance Drive

Theory, Inverted U Theory and IZOF.

UNIT-III

(11 HOURS)

- i. Personality- approaches to personality–Trait, types and psychodynamic theories, determinants of personality, assessment of personality.
- ii. Team Cohesion: a conceptual model of Cohesion, assessment of Cohesion, relationship of Cohesion with performance.

UNIT-IV (11 HOURS)

- i. Aggression in sports: types, phenomena of Aggression–Instinct Theory and Social Learning Theory, Assessment of Aggression and Leadership in Sports
- ii. Psychological preparation–Long-term and short-term psychological preparation, Goal setting and self-confidence

PRACTICAL SYLLABUS (30 HOURS)

- 1. Measurement of Motivation
- 2. Measurement of Anxiety
- 3. Measurement of Personality
- 4. Measurement of Team Cohesion
- 5. Measurement of Aggression

SUGGESTED READINGS:

1. Coaklay, J.J. (2009) . Sporting Sociology, Issues and controversies,

2.Cohen RJ and Swerdli ME (2002). Psychological testing and Assessment: An Introduction to Tests and Measurement. McGraw Hill.NewYork.U.S.A.

- 3. Liukkonen JED (2007). Psychology for Physical Educators. Human Kinetics. U.S.A.
- 4.Kornspan.S ,Alan (2009), Fundamentals of sports and exercise psychology, Human kinetics.

5.Rober, Weinberg.S &Gould ,Daniel (2011), Foundations of sports and exercise psychology (Fifth edition), Human kinetics.

6. Andrew, Lane. M (2016), Sports and exercise psychology, Routledge Taylor and Francis group.

SEMESTER-III

BSc-PE-DSC-9(4)-:PROFESSIONAL PREPARATION AND CAREER AVENUES IN PHYSICAL EDUCATION AND SPORTS

| Course title & Code | Credits | Credit course | | ition of the | Eligibility criteria | Pre- requisite |
|---------------------|---------|------------------|----------|--------------|-------------------------|-------------------|
| | | Lecture | Tutorial | Practical/ | | of the |
| | | | | Practice | | course |
| | | | | | | (if any) |
| BSc-PE-DSC-9(4) | 4 | 3 | 0 | 1 | Class XII | Nil |
| PROFESSIONAL | | | | | pass | |
| PREPARATION AND | | | | | | |
| CAREER AVENUES IN | | | | | | |
| PHYSICAL EDUCATION | | | | | | |
| AND SPORTS | | | | | | |

L

Learning Objectives:

- 1. To develop an understanding of professional preparation in physical education.
- 2. To develop skills to meet professional requirements.
- 3. To understand the need for professional development.
- 4. To acquire skills and competencies for professional development.

Learning Outcomes: After completion of the course the student will -

- 1. Understand professional preparation in physical education, comparing perspectives from preand post-independence India and other countries.
- 2. Apply the knowledge of the foundation, objectives, and characteristics of professional preparation in preparing programs, courses available in physical education and sports
- 3. Understand the role of physical education teachers and institutes.
- 4. Define and understand concepts such as profession, professional, and professionalism in physical education, explore career avenues at different educational levels, and apply learning through practical activities like case studies and surveys.

THEORY SYLLABUS (45 HOURS)

UNIT-I HISTORICAL PERSPECTIVE (10 HOURS)

- 1. Professional Preparation in India
- 2. Pre-Independence perspective
- 3. Post-Independence perspective

UNIT-II PROFESSIONALPREPARATIONPROGRAMMES (12 HOURS)

- 1. Foundation:need,objectives,andcharacteristicsofprofessionalpreparationprograms
- 2. Courses available in physical education and sports
- 3. Role of physical education teachers and institutes in professional preparation programs

UNIT-III PHYSICALEDUCATIONANDPROFESSIONALISM (11 HOURS)

- 1. Concept and meaning of Profession, Professional and Professionalism
- 2. Physical education as a profession

UNIT-IVCAREER AVENUES & JOB OPPORTUNITIES IN PHYSICAL EDUCATION & SPORTS (12 HOURS)

1. Career avenues after certificate course, diploma, under-graduation and post-graduation, and research degrees.

2. Planning for a career: self-assessment,motivationaldynamics,decision-making,counseling,and guidance

3. Challenges and opportunities in physical education

4. Inter-relationships among various careers in physical education and sports

PRACTICAL SYLLABUS (30 HOURS)

- 1. Case study on National Sports Policy
- 2. Case study on National Education Policy highlighting the role of physical education.
- 3. A Survey on current job avenues with certificate courses, diploma courses, under-graduation degrees, post-graduation degrees, and doctoral degrees in physical education.

SUGGESTED READINGS:

1. Gupta Rakesh, Sharma Akhilesh, and Sharma Santosh, 2004 Professional Preparation and Curriculum Designing Physical Education& Sports Sciences, New Delhi, Friends Publications,.

2. SandhuKiran,2004. Professional Preparation and Career Development in Physical Education, New Delhi, Friends Publications,.

3. SandhuKiran2006,TrendsandDevelopmentinProfessionalPreparationinPhysicalEducation,Ne wDelhi,FriendsPublication,.

4. ZeiglerE.F, 2007 Professional and Scholarly Foundation of Physical Education and Kinesiology, Sports Educational Technologies,.

- 5. Gupta, Rakesh (2017), Curriculum design, Friends publications.
- 6. Sharma, J.P (2005), Curriculum design in Physical education, Khel Sahitya Kendra.
- 7. James, Jose (2005) Curriculum design in Physical education and sports, Friends publications.

SEMESTER- III

BSc-PE-DSE-1 (4): OPTIONAL GAME-1

** (Select any one game (as per the list) ** that hasn't been chosen before in Sem I & II as DSC & as per the facility available)

| Course title | Credi | Credit | distributio | n of the | Eligibility | Pre-requisite |
|------------------|-------|---------|-------------|----------|-------------|---------------|
| & Code | ts | course | | | criteria | of the course |
| | | Lecture | Tutori | Practica | | (if any) |
| | | | al | l/ | | |
| | | | | Practice | | |
| BSc-PE- | 4 | 2 | 0 | 2 | Class XII | Nil |
| DSE-1(4)- | | | | | pass | |
| 101 | | | | | | |
| :ATHLETI | | | | | | |
| CS | | | | | | |
| | | | | | | |

BSc-PE-DSE-1(4)-101:ATHLETICS

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: The student will

1. Gain knowledge of the historical development, organizational structure, and playfield technology of an Athletics

2. Understand and interpret the rules of various events in track and field, as well as the physiological aspects of warming up and technical coaching.

3. Acquire skills in the sport, learn about various fitness tests and skill evaluations, and assess player performance in technical practices such as sprint races, middle and long-distance races, hurdles, long jump, and shot put.

4. Learn about various fitness components and their forms, and apply this knowledge to improve performance, including track and arena marking for selected events.

THEORY SYLLABUS (30 HOURS)

UNIT-I (07 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational Structure (State, National, and International Level)

UNIT-II (08 HOURS)

- Rules related to various Track & field events
- Basis of Warming up and Cooling down and its effect.
- Techniques of Coaching–Peptalk, Pre, during, and Post competition Coaching.

UNIT-III (08 HOURS)

• Basic skills and techniques in various Track & field events: sprint races, middle and long-distance races, hurdles races, jumping event-long jump, throwing events put, hammer throw.

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components related to various Track & field events

• Track marking and marking of different arenas for selected events mentioned in UNIT-III.

PRACTICAL(60 HOURS)

1. Learning and demonstrating various skills/techniques ofsprint races, middle and long-distance races, jumping events jump & High Jump, throwing events put & Discus.

2. Track marking and marking of different arenas for selected events in UNIT III.

SUGGESTED READINGS:

- ChauhanVS(1999).Khel Jagat Mein Athletics. A.P.Pub,Jalandhar.
- BompaO. Tudor and Halff G.Gregory .(2009). Periodization Theory and Methodology of Training Human kinetics .NY.
- Handbook-Rules and Regulation. International Athletic Federation (2010).
- Kumar,Pardeep.(2008).Historical Development of Track & Field. Friends Publication. New Delhi

• Maughan, R. and Gluson, M.(2004). The Biomechanical Basics of Athletic Performance .Oxford University Press, U.K.

• VanaikA.(2017).Officiating and Coaching, Friends Publication.New Delhi.

SEMESTER-III

BSc-PE-DSE-1 (4)-102: BADMINTON

| Course title& Code | Credits | Credit course | distributio | n of the | Eligibility criteria | Pre-requisite of the |
|--------------------------------------|---------|------------------|--------------|----------------|-------------------------|-------------------------|
| | | Lecture | Tutori al | Practica l/ | | course(if any) |
| | | | | Practice | | |
| BSc-PE-DSE- 1(4)-102 BADMINTON | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes:

After completing the course, the students will be able to:

- Understand, interpret and analyze proficiency in a game of one's choice.
- Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis
- Acquire various skills of sports
- Evaluate fitness and skill test as well as the evaluate player's performance.
- Understand fitness components and its forms.
- Enhance performance on the basis of knowledge gained in understanding various fitness components.
- Construct different Field/ Courts for the game.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National, and International Level)
- Introduction to Badminton Court

UNIT-II (08 HOURS)

• Rules and their interpretation.

• Basis of Warming up and Cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Badminton

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Badminton performance

PRACTICAL SYLLABUS (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Badminton

SUGGESTEDREADINGS:

1. Bompa O Tudor and Halff G. Gregory.(2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

2. BrahmsBernd-Voler.(2010).BadmntonHandbook.Mayer&MayerSports:UK.Unt-II,III&IV-p-9-14.

3. Grice, T. (2007). Badminton: StepstoSuccess. 2ndEd. HumanKinetics, USA.

4. GuptaR.KumarP.andTyagiS.(2008).TextbookonTeachingSkillandProwess(PartI &II).Friends P ublication .New Delhi.

- 5. Singh, MK.(2007).Comprehensive Badminton. Friends Pub. New Delhi.
- 6. Vanaik A.(2005).Playfield Manual, Friends Publication. New Delhi.
- 7. Vanaik A.(2017).Officiating and Coaching, Friends Publication. New Delhi.

SEMESTER- III

BSc-PE-DSE-1 (4)-103: BASKETBALL

| Course title & Code | Credits | Credit course | distributi | on of the | Eligibility criteria | Pre-requisite of the course |
|-------------------------------------|---------|------------------|------------|------------------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| BSc-PE-DSE-1(4)- 103: BASKETBALL | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective:-The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Understand, interpret and analyze proficiency in a game of one's choice.
- 2. Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- 3. Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis
- 4. Acquire various skills of sports
- 5. Evaluate fitness and skill test as well as the evaluate player's performance.
- 6. Understand fitness components and its forms.
- 7. Evaluate different components of fitness
- 8. Enhance performance on the basis of knowledge gained in understanding various fitness components.
- 9. Construct different Field/Courts for the game

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Basketball Court

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Basketball

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Basketball performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Basketball

SUGGESTED READINGS

- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human Kinetics.NY.
- Drewett, J. (2007). How to Improve at Basketball .Crab Tree Publishing Co., USA.
- Jain Naveen (2003).Playand Learn BasketBall .Khel Sahitya Kendra.NewDelhi.
- Singh, Hardayal. (2019). Science of Sports Training. DVS Publication, N. Delhi.
- Wilmore & Costill (2004). Physiology of Sports & Exercise. Human Kinetics, US.

SEMESTER-III

BSc-PE-DSE-1(4)-104: CRICKET

| Course title & | Credits | Credi | t distribu | tion of the | Eligibility | Pre-requisite |
|----------------|---------|-----------------------------|------------|-------------|-------------|---------------|
| Code | | course | ę | | criteria | of the course |
| | | Lecture Tutorial Practical/ | | | | (if any) |
| | | | | Practice | | |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class XII | Nil |
| 1(4)-104 | | | | | pass | |
| CRICKET | | | | | | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: After completing the course, the students will be able to:

- Understand, interpret and analyze proficiency in a game of one's choice.
- Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/ game.
- Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis
- Acquire various skills of sports
- Evaluate fitness and skill test as well as the evaluate player's performance.
- Understand fitness components and its forms.
- Evaluate different components of fitness
- Enhance performance on the basis of knowledge gained in understanding various fitness components.
- Construct different Field/Courts for the game.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Cricket ground

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills inCricket

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Cricket performance

PRACTICAL SYLLABUS - (60 HOURS.)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Cricket

<u> SUGGESTEDREADINGS: -</u>

- 1. Bompa O. Tudor and Halff G.Gregory.(2009) "Periodization Theory and Methodology of Training "Human kinetics. NY.
- 2. Boycott,G.(2010).Play Cricket the Right Way.GreatNorthernBooksLimited,U.K.
- 3. Cricket(2008).Sports Skills: CricketFielding(KnowtheGame).A&CBlackPublishers.
- 4. Hobls, J. (2008). The Game of Cricket Asitshould be played. Jepson Press, USA.
- 5. Singh, Hardayal. (2019). Science of Sports Training. DVSPublication, N. Delhi.
- 6. VanaikA.(2017).OfficiatingandCoaching,FriendsPublication.NewDelhi

Semester-III BSc-PE-DSE-1(4)-105: FOOTBALL

| Course title & Code | Credi ts | Credit Lectur e | distribution Tutorial | of the course Practical/ Practice | Eligibili ty criteria | Pre- requisite of the course (if any) |
|-----------------------------------|-------------|-----------------------|--------------------------|---|-----------------------------|---|
| BSc-PE-DSE-1(4)- 105: FOOTBALL | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective:-The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome:-The student attains knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

1. A student will be able to gain knowledge concerning Historical Development, Organizational Structure and Playfield Technology of a sport/game.

2. A student will be able to understand and interpret the rules of the game as well as game knowledge in the areas of physiological basis of Warming up and technical aspects of coaching.

3. A student will be able to learn and acquire various skills of sports/games, gain knowledge about different techniques evaluation as well as the evaluation of player's performance.

4. A student will be learning about various fitness components and their forms. Further, the student will be able to practice and improve performance on the basis of knowledge gained in understanding various fitness components and their testing.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Football Ground

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition

• Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Football

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Football performance

PRACTICAL SYLLABUS - (60 HOURS.)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Football

SUGGESTED READINGS

1. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

2. Carling, C., Williams, M. and Reilling, T. (2006). Handbook of Soccer Match Analysis: A Systematic Approach to Improving Performance. Routledge Publishers, USA.

3. Long, H. and Czarnecki, J. (2007). Football for Dummies. For Dummies Publisher, USA. Developing Strength, Speed and Endurance. Routledge Publisher, USA.

4. Reilly, T. and J.C.D. Arau (2008). Science and Football V: The Proceedings of the 5th World Congress on Sports Science and Football, Volume5.

5. Singh, Hardayal. (2019). Science of Sports Training. DVS Publication, N. Delhi.

6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

SEMESTER- III

BSc-PE-DSE-1(4)-106: GYMNASTICS

| Course title & Code | Credi | Credit | distributio | n of the | Eligibility | Pre- |
|---------------------|-------|---------|-------------|----------|-------------|--------------|
| | ts | course | | | criteria | requisite of |
| | | Lecture | Tutori | Practica | | the |
| | | | al | l/ | | course(if |
| | | | | Practice | | any) |
| BSc-PE-DSE-1(4)- | 4 | 2 | 0 | 2 | Class XII | Nil |
| 106: GYMNASTICS | | | | | pass | |

Learning Objective:-The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: After completing the course, the students will be able to:

- Understand, interpret and analyze proficiency in a game of one's choice.
- Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.

• Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis

- Acquire various skills of sports
- Evaluate fitness and skill test as well as the evaluate player's performance.
- Understand fitness components and its forms.
- Evaluate different components of fitness
- Enhance performance on the basis of knowledge gained in understanding various fitness components.
- Construct different Field/Courts for the game.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National, and International Level)
- Introduction to Gymnastic Gymnasium

UNIT-II (08 HOURS)

• Rules and their interpretation

- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Gymnastics

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Gymnastics performance

PRACTICAL SYLLABUS - (60 HOURS.)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve various Gymnastics skills

SUGGESTED READINGS

- 1. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Humankinetics. NY.
- 2. Brown(2009).How to Improve at Gymnastics. CrabtreePublishingCo., USA.
- 3. HarveyFJ (1998).Physical Exercises & Gymnastics. KhelSahitya.NewDelhi.
- 4. JainR(2005).PlayandLearnGymnastics.KhelSahitayaKendra
- 5. Mitchell, D., Davis, B.andLopez, R. (2002). Teaching
- FundamentalGymnasticsSkills.HumanKinetics, USA.
- 6. Price, R.G. (2006). The Ultimate Guide to Weight Training for Gymnastics. 2ndEd.Sportsworkout.com.

7. SchlegelEandDunn,CR.(2001).TheGymnasticsBook:TheYoungPerformer"sGuideto Gymnastics.FireflyBooks,USA.

- 8. Singh, Hardayal. (2019). Science of Sports Training. DVSPublication, N. Delhi.
- 9. Stickland, L.R. (2008). Gender Gymnastics. TransPacific Press, Japan.

10. VanaikA.(2017).OfficiatingandCoaching,FriendsPublication.NewDelhi

SEMESTER- III

BSc-PE-DSE-1(4)-107: HANDBALL

| Course title & | Credit | Credit | distribut | tion of the | Eligibility | Pre-requisite |
|----------------|----------|--------|-----------|-------------|-------------|---------------|
| Code | S | course | | | criteria | of the |
| | | Lectur | Tutor | Practical/ | | course(if |
| | | e | ial | Practice | | any) |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class XII | Nil |
| 1(4)-107: | | | | | pass | |
| HANDBALL | | | | | | |

Learning Objective:-The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome:-The student attains knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

1. A student will be able to gain knowledge concerning Historical Development, Organizational Structure and Playfield Technology of a sport/game.

2. A student will be able to understand and interpret the rules of the game as well as game knowledge in the areas of physiological basis of Warming up and technical aspects of coaching.

3. A student will be able to learn and acquire various skills of sports/games, gain knowledge about different techniques evaluation as well as the evaluation of player's performance.

4. A student will be learning about various fitness components and their forms. Further, the student will be able to practice and improve performance on the basis of knowledge gained in understanding various fitness components and their testing.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Handball Court

UNIT-II (08 HOURS)

• Rules and their interpretation

- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and post-match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Handball

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Handball performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Handball

SUGGESTED READINGS: -

- 1.BompaO.Tudor andHalffG.Gregory. (2009) Periodization Theory and Methodology
- of Training" Human Kinetics. NY.
- 2. JainD(2003). Play&LearnHandball.KhelSahityaKendra.NewDelhi.
- 3. Kleinman, I. (2009). Complete Physical Education Plans. 2nd Ed. Human Kinetics, USA.
- 4. Page, J. (2000). BallGames. LernerSportsPublisher, USA.
- 5. Phillips, B.E. (2009). Fundamental Handball. Kessinger Publishers, USA.
- 6. Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- 7. Surhone, L.M.et.al, (2010). TeamHandball. Betascript Publishing, USA
- 8. VanaikA.(2017). Officiating and Coaching, Friends Publication. NewDelhi

SEMESTER-III

| Course title & | Credi | Credit | t distribut | ion of the | Eligibilit | Pre- |
|----------------|-------|--------|-------------|------------|------------|-----------|
| Code | ts | course | ; | | у | requisite |
| | | Lectu | Tutori | Practica | criteria | of the |
| | | re | al | l/ | | course(if |
| | | | | Practice | | any) |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class | Nil |
| 1(4)-108: | | | | | XII pass | |
| HOCKEY | | | | | | |

BSc-PE-DSE-1(4)-108: HOCKEY

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: After completing the course, the students will be able to:

- Understand, interpret and analyze proficiency in a game of one's choice.
- Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis
- Acquire various skills of sports
- Evaluate fitness and skill test as well as the evaluate player's performance.
- Understand fitness components and its forms.
- Evaluate different components of fitness

• Enhance performance on the basis of knowledge gained in understanding various fitness components.

• Construct different Field/Courts for the game.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Hockey Ground

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Hockey

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Basketball performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Hockey

SUGGESTED READINGS -

1. Bompa O. Tudor and Halff G. Gregory. (2009)" Periodization Theory and Methodology of Training" Human kinetics. NY.

2. International Hockey Federation, Rules of the Game of Hockey with Guidance for Players and Umpires. International Hockey Federation.

3. Pecknold,R.andFoeste,A.(2009).Hockey:EssentialSkills.McGrawHills,USA. Illustrated edition. Sterling Publishers, USA.

- 4. Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- 5. Walter, R. and Johnson, M. (2009). Hockey Plays and Strategies. Human Kinetics, USA.
- 6. Wukovits, J.F. (2000). HistoryofHockey1stEd. LucentBooks, USA.
- 7. Vanaik A.(2017).Officiating and Coaching, Friends Publication. New Delhi.

SEMESTER-III

BSc-PE-DSE-1(4)-109: JUDO

| Course title & | Credi | Credit | distribut | ion of the | Eligibilit | Pre- |
|----------------|-------|--------|-----------|------------|------------|-----------|
| Code | ts | course | | | У | requisite |
| | | Lectur | Tutor | Practica | criteria | of the |
| | | e | ial | l/ | | course(if |
| | | | | Practice | | any) |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class | Nil |
| 1(4)-109: JUDO | | | | | XII pass | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: After completing the course, the students will be able to:

1. Understand, interpret and analyze proficiency in a game of one's choice.

2. Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.

3. Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis

- 4. Acquire various skills of sports
- 5. Evaluate fitness and skill test as well as the evaluate player's performance.
- 6. Understand fitness components and its forms.
- 7. Evaluate different components of fitness

8. Enhance performance on the basis of knowledge gained in understanding various fitness components.

9. Construct different Field/Courts for the game.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Judo Dojo

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and post-match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Judo

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Judo performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Learning to demonstrate various tests to evaluate motor components as listed in UNIT IV above.

SUGGESTED READINGS

1.BompaO.TudorandHalffG.Gregory.(2009)"PeriodizationTheoryandMethodologyofTraining "Humankinetics. NY.

2. Diago, T. (2005). Kodokan Judo Throwing Techniques. Kodansha International Publishers, Japan.

3.HarrisonEJ(2002).Coaching Successfully Judo. Sports. Delhi.

4. Jain D (2003). Play and Learn Judo. Khel Sahitaya Kendra. New Delhi.

5. Law, M(2009). FallingHard: AJourneyinto the Worldof Judo. Trumpeter Publisher, Japan.

6. Putin, V, Shestakov, V. adevitsky, A. (2004). Judo: History, Theory and Practice.

Blue Snake Books, Moscow.

7. Singh, Hardayal. (2019). Science of Sports Training. DVSPublication, N. Delhi.

8. Takahashi M.(2005). Mastering Judo . Human Kinetics, USA.

SEMESTER- III

BSc-PE-DSE-1(4)-110: KABADDI

| Course title & Code | Credi | Credit | distributi | on of the | Eligibility | Pre- |
|----------------------|-------|--------|------------|-----------|-------------|-----------|
| | ts | course | | | criteria | requisite |
| | | Lectur | Tutori | Practica | | of the |
| | | e | al | l/ | | course(if |
| | | | | Practice | | any) |
| BSc-PE-DSE-1(4)-110: | 4 | 2 | 0 | 2 | Class XII | Nil |
| KABADDI | | | | | pass | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: After completing the course, the students will be able to:

1. Understand, interpret and analyze proficiency in a game of one's choice.

2. Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.

3. Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis

- 4. Acquire various skills of sports
- 5. Evaluate fitness and skill test as well as the evaluate player's performance.
- 6. Understand fitness components and its forms.
- 7. Evaluate different components of fitness

8. Enhance performance on the basis of knowledge gained in understanding various fitness components.

9. Construct different Field/Courts for the game.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Kabaddi Court

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Kabaddi

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Kabaddi performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Kabaddi

SUGGESTED READINGS:

- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics.NY.
- Kumar, Dharmander.(2018).Kabaddi andI t's Playing Techniques. Writers Choice, New Delhi.
- Mishra,S.C.(2007).TeachYourselfKabaddi.SportsPublications,NewDelhi.
- Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- Syal, M. (2004). Kabaddi Teaching. Prerna Parkashan, NewDelhi.
- VanaikA.(2017).OfficiatingandCoaching,FriendsPublication.NewDelhi.

SEMESTER- III

BSc-PE-DSE-1(4)-111: KHO-KHO

| Course title & Code | Credi ts | Credit course | | tion of the | Eligibilit ycriteria | Pre- requisite |
|------------------------|-------------|------------------|-------|-------------|-------------------------|-------------------|
| | | Lectu | Tutor | Practic | | of |
| | | re | ial | al/ | | thecourse(|
| | | | | Practic | | if any) |
| | | | | e | | |
| BSc-PE-DSE-1(4)- | 4 | 2 | 0 | 2 | Class | Nil |
| 111: КНО-КНО | | | | | XII pass | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: After completing the course, the students will be able to:

1. Understand, interpret and analyze proficiency in a game of one's choice.

2. Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.

3. Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis

4. Acquire various skills of sports

5. Evaluate fitness and skill test as well as the evaluate player's performance.

6. Understand fitness components and its forms.

7. Evaluate different components of fitness

8. Enhance performance on the basis of knowledge gained in understanding various fitness components.

9. Construct different Field/Courts for the game.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Kho Kho ground

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition

• Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Kho Kho

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Kho Kho performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Kho-Kho

SUGGESTED READINGS:

- BompaO.TudorandHalffG.Gregory.(2009)"PeriodizationTheory and Methodology of Training" Human Kinetics. NY.
- ChakrabartyG(2002).Kho-KhoAveloken.KhelSahityaKendra.Delhi.
- Singh, Hardayal. (2019). Science of Sports Training. DVSPublication, N. Delhi.
- VanaikA.(2005).PlayfieldManual,FriendsPublication.NewDelhi
- VanaikA. (2017).OfficiatingandCoaching,FriendsPublication.NewDelhi

SEMESTER-III

BSc-PE-DSE-1(4)-112: VOLLEYBALL

| Course title & | Credit | Credit | distributio | on of the | Eligibilit | Pre- |
|------------------|--------|--------|-------------|-----------|------------|-----------|
| Code | S | course | | | У | requisite |
| | | Lectur | Tutori | Practic | criteria | of the |
| | | e | al | al/ | | course(if |
| | | | | Practic | | any) |
| | | | | e | | |
| BSc-PE-DSE-1(4)- | 4 | 2 | 0 | 2 | Class | Nil |
| 112: | | | | | XII pass | |
| VOLLEYBALL | | | | | | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes:

After completing the course, the students will be able to:

- Understand, interpret and analyze proficiency in a game of one's choice.
- Identify Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- Understand and interpret the rules of game as well as game knowledge in the areas of psychological basis
- Acquire various skills of sports
- Evaluate fitness and skill test as well as the evaluate player's performance.
- Understand fitness components and its forms.
- Evaluate different components of fitness

• Enhance performance on the basis of knowledge gained in understanding various fitness components.

• Construct different Field/Courts for the game

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National, and International Level)
- Introduction to Volleyball Court

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Volleyball

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Volleyball performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Volley Ball

SUGGESTED READINGS

- American Volleyball Coaches Association (2005). Volleyball: Skills
- & Drills. Human Kinetics,USA.
- Bompa O.Tudor and Halff G. Gregory. (2009) Periodization Theory and Methodology of Training Human kinetics. NY.
- Kenny, B. and Gregory, C. (2006). Volleyball: Stepsto Success. Human Kinetics, USA.
- Scates, A. and Linn, M. (2002). Complete Conditioning for Volleyball. Human Kinetics, USA.
- Shondell,D.andReynaud,C.(2002).TheVolleyballCoachingBible.HumanKinetics,USA.
- Singh, Hardayal. (2019). Science of Sports Training. DVSPublication, N. Delhi.
- The National Alliance for Youth. Sports (2009). Coaching Volleyball For Dummies Publishers, USA.
- Volleyball, USA (2009).Volleyball: Systems and Strategies. Human Kinetics, USA.
- VanaikA.(2017).Officiating and Coaching, FriendsPublication.NewDelhi

SEMESTER-III

BSc-PE-DSE-1(4)-113: YOGA

| Course title & | Credits | Credit | t distribu | ition of the | Eligibility | Pre- |
|------------------|---------|--------|------------|--------------|-------------|---------------|
| Code | | course | ; | | criteria | requisite of |
| | | Lectu | Tutor | Practical/ | | the course(if |
| | | re | ial | Practice | | any) |
| BSc-PE-DSE-1(4)- | 4 | 2 | 0 | 2 | Class XII | Nil |
| 113: YOGA | | | | | pass | |

Learning Objective: -The Students will acquire knowledge and understanding of a specific sport in which an individual wish to excel.

Learning Outcomes: After completing the course, the students will be able to:

1. Understand Origin of yoga, definition and scope of yoga, limitations and misconceptions, importance of yoga in physical education and other fields

2. Learn about the prayer, perform Asanas, Pranayama, Shatkarma, Bandha.

3. Treat Disease through yoga therapy- Asthma, high & low B.P, diabetes, obesity, heart disease, insomnia, arthritis, backache & female disease.

4. Apply Yoga-Nidra/Relaxation techniques

5. Understand Diet & constitution, components of nutrition, water, natural diet, balanced diet, fasting-its benefits, types & preparation.

THEORY SYLLABUS (30 HOURS)

UNIT-I (07 HOURS)

- Origin of yoga, definition, and scope of yoga, limitations, and misconceptions of Yoga
- Importance of yoga in physical education and other fields
- Yoga asana competition at: State, National, International, SGFI, AIU, etc.

UNIT-II (07 HOURS)

• Philosophical aspects of Yoga-Pre-Vedic, Vedic period; Buddhism, Upanishad period, Jainism & Tantra

- Qualifications, qualities, and responsibilities of a coach,
- Duties/responsibilities of technical official, Scoring system and judgment criteria,
- Protocols for referees, judges, and officials.

UNIT-III (09 HOURS)

• Meaning, Techniques, Precautions & Effects of The Following:-

• Asanas: Padmasana, Vajrasana, Sidhasana, Paschimottanasa, Halasana, Sarvangasana, Shalabhasana, Ardhmatsyendrasana, Bhujangasana, Tadasana, Vrikshasana, Matsyasana, Gomukhasana, Ushtrasana, Shavasana, Makarasana, Vrishchikasana, Dhanurasana, Purna Matsyendrasana, Chakrasana, Ek Pad Sikandasana, Bakasana, Mayurasana, Shirshasana

• Pranayama: Anulom-Vilom, Bhastrika, Suryabhedhen Pranayama, Sheetali, Sheetkari, Bhramari, Ujjayi

- Shatkarma: Neti, Dhauti, Nauli, Basti, Kunjal, Kapal Bhati, Shankh Prakshalana
- Bandhas: Jalandhar, Uddyana, Mool Bandha

UNIT-IV (07 HOURS)

• Disease-wise treatment through yoga therapy- Asthma, high & low B.P, diabetes, obesity, heart disease, insomnia, arthritis, backache & female disease

• Diet & Nutrition, components of nutrition, water, natural diet, balanced diet, fasting-its benefits, types & preparation, and the importance of vegetarianism in yogic diet.

PRACTICAL SYLLABUS (60 HOURS)

- 1. Prayer
- 2. Asanas, Pranayama, Shatkarma, Bandha (As Mentioned In Theory)
- 3. Yoga-Nidra/Relaxation Techniques

SUGGESTED READINGS

- Anand Omprarkash (2001). Yog Dawra Kaya Kalp, Kanpur. Sewasth Sahitya Perkashan
- Iyengar, B.K.S. (1995). Light on Yoga : The Bible of Modern Yoga. Schocken Publishers, USA.
- Kaminoff, L. et al (2007). Yoga Anatomy. Human Kinetics, USA.
- Kirk, M. (2005). The Hatha Yoga Illustrated. Human Kinetics, USA.
- Sharma JP and Ganesh S(2007). Yog Kala Ek Prichya. Friends Publication. New Delhi
- Sharma J. P. (2007). Manav jeevan evam yoga. Friends Publication. New Delhi.
- Sharma Jai Prakash And Sehgal Madhu(2006). Yog-Shiksha. Friends Publication. Delhi.
- Sharma Jai Prakash and Rathore Bhupender Singh (2007). Yoga Ke Tatva. Friends Publication. Delhi
- Mukerji, A.P. (2010). The Doctorine and Practice of Yoga. General Books, LLC, New Delhi.
- Norton, W.W. (2010). Yoga for Osteoporosis : The Complete Guide. W.W. Norton & Company, USA.
- Sarin N (2003). Yoga Dawara Rogoon Ka Upchhar. Khel Sahitya Kendra
- Sri Swami Rama, (2001). Breathing. Rishikesh Sadhana Mandir Trust.
- Swami Ram (2000). Yoga& Married Life. Rishikesh Sadhana Mandir Trust
- Swami Swatma Ram: Patanjali Yoga Sutra

- Swami Veda Bharti (2000). Yoga Polity. Economy and Family. Rishikesh Sadhana Mandir Trust
- Text Book Hath Yoga Pradipika
- Text Book Patanjali Yoga Sutra
- Text Book Patanjali Yoga Sutra

Semester-III

BSc-PE-DSE-1(4)-114: SWIMMING

| Course title & Code | Credits | Credit | distribution | Eligibility criteria | Pre- requisite of | |
|-----------------------------------|---------|---------|--------------|-------------------------|----------------------|------------------------|
| | | Lecture | Tutorial | Practical/ Practice | the | the course (if any) |
| BSc-PE-DSE-1(4)- 114: SWIMMING | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective: -The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome: -The student attains knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

1. A student will be able to learn about Historical Development, Organizational Structure and Playfield Technology of a sport/game.

2. A student will be able to understand and interpret the rules of the game as well as game knowledge in the areas of physiological basis of Warming up and technical aspects of coaching.

3. A student will be able to learn and acquire various skills of sports/games, gain knowledge about different techniques evaluation as well as the evaluation of player's performance.

4. A student will be learning about various fitness components and their forms. Further, the student will be able to practice and improve performance on the basis of knowledge gained in understanding various fitness components and their testing.

THEORY SYLLABUS (30 HOURS)

UNIT-I

- Introduction to Swimming game
- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)

UNIT-II

(08 HOURS)

(08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect

54

UNIT-III

(07 HOURS)

- Techniques of Coaching Pep talk, Pre, during and Post match coaching
- Basic skills and techniques of the skills
- Drills to improve skills in Swimming

UNIT-IV

(07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for swimming performance

PRACTICAL SYLLABUS -

(60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Swimming

SUGGESTED READINGS

1. David J., Mathur M. (1994). "How to learn swimming in 30 days" UBS Publishers, New Delhi, India.

2. Jain. R. (2003). "Play and Learn Swimming" Khel Sahitya Kendra, New Delhi, India

3. Jain. D. (2003). "Swimming Skills & Rules" Khel Sahitya Kendra, New Delhi, India

Hardy, Colin (1987) "Handbook for the Teacher Of Swimming" Pelham books ltd., London (U.K)

5. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

6. Thomas, David G., (2005). "Swimming STEPS TO SUCCESS" Human Kinetics, U.S.A

7. Singh, Hardayal. (1919). Science of Sports Training. DVS Publication, N. Delhi.

8. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

Semester-III

| Course title & Code | Cred its | Credit course | distributio | n of the | Eligibility criteria | Pre- requisite of the course |
|-----------------------------------|-------------|------------------|-------------|------------------------|-------------------------|------------------------------------|
| | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| BSc-PE-DSE-1(4)-115: WRESTLING | 4 | 2 | 0 | 2 | Class XII pass | Nil |

BSc-PE-DSE-1(4)-115: WRESTLING

Learning Objective: -The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome: -The student attains knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

1. A student will be able to learn about Historical Development, Organizational Structure and Playfield Technology of a sport/game.

2. A student will be able to understand and interpret the rules of the game as well as game knowledge in the areas of physiological basis of Warming up and technical aspects of coaching.

3. A student will be able to learn and acquire various skills of sports/games, gain knowledge about different techniques evaluation as well as the evaluation of player's performance.

4. A student will be learning about various fitness components and their forms. Further, the student will be able to practice and improve performance on the basis of knowledge gained in understanding various fitness components and their testing.

THEORY SYLLABUS (30 HOURS)

UNIT-I

(08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Wrestling Game

UNIT-II

(08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III

(07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Wrestling

UNIT-IV

(07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Wrestling performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Wrestling.

SUGGESTED READINGS

- 1. Gable, D. (1999) "Coaching Wrestling Succefully" Human Kinetics, U.S.A
- 2. Camaione D. & Tillman K. (1980) "Teaching & Coaching Wrestling A Scientific Approach" John Wiley & Sons. Inc., U.S.A.
- 3. Kumar N. (2005) "Play & Learn Wrestling" Khel Sahitya Kendra, New Delhi, India.
- 4. Patwardhan G. (2002) "Coaching Succefully Wrestling" Sports Publication, Delhi.
- 5. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

Semester-III

| Course title & Code | Credits | Credit d | listribution o | 8 | Pre- requisite | |
|--------------------------------------|---------|----------|----------------|------------------------|-------------------|---------------|
| | | Lecture | Tutorial | Practical/ Practice | | of the course |
| | | | | | | (if any) |
| BSC-PE-DSE-1(4)-116: TABLE TENNIS | 4 | 2 | 0 | 2 | Class XII pass | Nil |

BSc-PE-DSE-1(4)-116: TABLE TENNIS

Learning Objective: -The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome: -The student attains knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

1. A student will be able to gain knowledge concerning Historical Development, Organizational Structure and Playfield Technology of a sport/game.

2. A student will be able to understand and interpret the rules of the game as well as game knowledge in the areas of physiological basis of Warming up and technical aspects of coaching.

3. A student will be able to learn and acquire various skills of sports/games, gain knowledge about different techniques evaluation as well as the evaluation of player's performance.

4. A student will be learning about various fitness components and their forms. Further, the student will be able to practice and improve performance on the basis of knowledge gained in understanding various fitness components and their testing.

THEORY SYLLABUS (30 HOURS)

UNIT-I

(08 HOURS)

Historical Development and Modern Trends (National and International Level)

- Organizational structure (State, National and International Level)
- Introduction to Table Tennis Game

UNIT-II

(08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III

(07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Table Tennis

UNIT-IV

(07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility

• Importance of skill-related components for Table Tennis performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Table Tennis

SUGGESTED READINGS

1. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

- 2. Jain D. (2001) "Teaching& Coaching Table Tennis" Khel Sahitya Kendra, Delhi.
- 3. Burn B. (1979) "The Science of Table Tennis" S. Chand & Company ltd., N. Delhi.
- 4. Singh, Hardayal. (1919). Science of Sports Training. DVS Publication, N. Delhi.
- 5. Jain D. (2003) "Table Tennis skills & Rules" Khel Sahitya Kendra, N. Delhi.
- 6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES UGCF: B.SC. PHYSICAL EDUCATION, HEALTH EDUCATION AND SPORTS (HONS.) NEP-2020

| SEMESTER | COURSE | CONTENT /CREDITS * | | | | |
|----------|--|---|--|--|--|--|
| IV | Discipline Specific Course (DSC) | DSC-10 (4): Sports Sociology DSC-11 (4): Sports Biomechanics | | | | |
| | | DSC-12 (4): Exercise Prescription for Fitness and Health | | | | |
| | Discipline Specific Elective | Choose one DSE from a pool of Courses | | | | |
| | (DSE) | DSE-2(4)-201: Optional Game 2** | | | | |
| | OR | (Select any one game (from the list) that hasn't been chosen before in Sem I, II | | | | |
| | Generic Elective (GE) | & III as DSC/DSE& as per the facility available) | | | | |
| | | OR | | | | |
| | | Choose one GE (GE -3) from a pool of courses (of other Departments) (4) | | | | |
| | Ability Enhancement Course (AEC) | Choose one from a pool of AEC courses (2) | | | | |
| | Skill Enhancement Course (SEC) | Choose one SEC or Internship/ | | | | |
| | OR | Apprenticeship/ Project/ Community Outreach (2) | | | | |
| | Internship/Apprenticeship/Project (2) | | | | | |
| | Value Addition Course (VAC) | Choose one from a pool of courses (2) | | | | |
| | | Total Credits= 22 | | | | |

B.Sc (PE, HE & S) Hons.

* (FIGURE IN BRACKETS DENOTE CREDITS)

****LIST OF GAMES (Choose as per the facility available)**

(i) Athletics, (ii) Badminton,(iii) Basketball, (iv) Cricket ,(v) Football, (vi) Gymnastic, (vii) Handball, (viii) Hockey, (ix) Judo, (x) Kabaddi, (xi) Kho-Kho , (xii) Volleyball, (xiii) Yoga, (xiv) Swimming. (xv) Wrestling (xvi) Table Tennis

SEMESTER-IV

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES

UNIVERSITY OF DELHI

B.Sc. (Hons.) (Physical Education, Health Education and Sports)

SEMESTER-IV

BSc-PE-DSC-10(4) SPORTS SOCIOLOGY

| Course title & Code | Credit | Credit distribution of the | | | Eligibilit | Pre- |
|---------------------|--------|----------------------------|-------|---------|------------|-----------|
| | S | course | | | y criteria | requisite |
| | | Lectur | Tutor | Practic | | of the |
| | | e | ial | al/ | | course(if |
| | | | | Practic | | any) |
| | | | | e | | |
| BSc-PE-DSC-10(4) | 4 | 3 | 0 | 1 | Class | Nil |
| SPORTS | | | | | XII pass | |
| SOCIOLOGY | | | | | | |
| | | | | | | |

Learning Objective:

To provide the knowledge and applications of Sports sociology as well as to familiarize the learners with the concepts of sociology, culture and sport, Socialization and sports, Gender and sports as well as sports education with application point of view.

Learning Outcomes: At the end of the course, the student will be able to

- Understand the meaning and importance of sports sociology
- Understand the concept of culture and sports along with its components to deal with cultural aspects

• Differentiate between gender, feminism social, cultural &economic barriers towomen's participation in sports.

• Identify sports as a tool for gender equality & women empowerment in he present day context.

- Understand the importance and applications of sports sociology.
- Explain sociological perspectives with sports.
- Inculcate the sports culture in their life & society.
- Establish the relationship between society and sports.

• Understand the significance of socialization through games and sports for development of the society.

THEORY SYLLABUS (45 HOURS)

UNIT-I Introduction

- 1.1 Meaning& definitions of sociology & sports sociology
- 1.2 Aim and importance of sports sociology
- 1.3 Meaning and importance of society
- 1.4 Sports as a part of society

UNIT-II <u>Culture and sports</u>

- 2.1 Concept of culture & sports culture
- 2.2 Characteristics of Sports Culture
- 2.3 Functions of sports culture
- 2.4 Components of sports culture

UNIT-III Socialization and Sports

- 3.1 Concept of Socialization & Sports Socialization
- 3.2 Importance of sports socialization
- 3.3 Types of sports socialization
- 3.4 Agents of sports socialization

UNIT-IV Gender and sports

- 4.1 Meaning of Gender and Feminism
- 4.2 Social, cultural & economical barriers towomen's participation in sports
- 4.3 Gender discrimination and equality in sports
- 4.4 Sports as a tool for gender equality & women empowerment.

PRACTICAL SYLLABUS (30 HOURS)

- 1. Collect data and analysis on the status of women in sports in society/Community
- 2. Conduct a survey of any sports choice based on commercial growth.
- 3. Superstition scale collect data and write an article on at least 15 members of a sports team

4. Cultural determination test (collect data and write an article on at least 10 members of the sports team)

SUGGESTED READINGS

1. Rajveer Khel Samaj Shastra, 2010Sports Publication, New Delhi,

2. Kumar, Dharmander, 2022 "Fundamentals of Sports Sociology" Wrier Choice publication, New Delhi,

3. Rao, Shankar 2012 "Principles of Sociology" S. Chand & Company, New Delhi, Nirja Publishers & printer, India,.

- 4. Gupta, M.L. & Sharma, D. D. D 2004 "Samajshastra" SahityaBhawan Publication,
- 5. Bhusan, V. and Sachdeva, 2003An Introduction to Sociology, Delhi: Kitab,.
- 6. IGNOU, 2007The Study of Society Understanding Sociology, Delhi IGNOU,.

7. Jain, Rachna, 2005Sports Sociology, New Delhi: Khel Sahitaya Kendra,.

8. Knop,P.D., Engstrow, L.M., Sbisstadd, B., Uleiss, M.R., 1996World Wide Trends In Youth Sport, Human Kinetics

9. Maguire, J. and Young JAI, K., 2005Theory, Sport and Society, Elsevier Ltd.

10. Majuardar, B., and Morgan Reutledge, J. A., 2005Sport in South Asian Society Past and Present edited, New York and London

- 11. Moping Sense of Sports, 2000 by Ellis Cashmore Routeedge, New York,
- 12. Rawat, H.K. Sociology Basic concepts, 2007Rawat Publication
- 13. Roulledge, M.Abrow, 2001Sociology, The Basics London
- 14. Sandhu, Kanwaljit Singh, 2000Sport Sociology, New Delhi : Friends Pub.,.
- 15. Singh, Bhupinder, Sports Sociology, 2004New Delhi : Friends,.
- 16. Singh, J.P., SamaajshastraAvdharanaayeAurSidhaant1999, Prentis Hall of India New Delhi
- 17. Sports in Contemporary Society: An ethnology worth publications, New York-2001
- 18. Stanly eitzan and George H. Sage, 1997Sociology of world American Sports, Bastow, M. A:

W C B/Mcgraw Hill

- 19. Turner, B., 2006Cambridge Dictionary of Sociology, U.K., Cambridge, U.N. Press.,
- 20. Woods, Ronald B., 2007Social issues in Sports, Human Kinetics

SEMESTER-IV

| Course title & Code | Credi | | | | 0 | |
|---------------------|-------|--------|-------|----------|----------|-----------|
| | ts | course | | | У | requisite |
| | | Lectu | Tutor | Practica | criteria | of the |
| | | re | ial | l/ | | course(if |
| | | | | Practice | | any) |
| BSc-PE-DSC-11 (4): | 4 | 3 | 0 | 1 | Class | Nil |
| SPORTS | | | | | XII pass | |
| BIOMECHANICS | | | | | | |

BSc-PE-DSC-11 (4) :SPORTS BIOMECHANICS

Learning Objective: The objective of this course is to provide an understanding with practical skills to the learners about Sports Biomechanics and its applications to sports as well as to develop the foundation of sports biomechanics for performance analysis and improvement.

Learning Outcomes : At the end of the course the student will be able to-

- 1.Understand the fundamental concepts and practices related to Sports Biomechanics.
- 2.Develop an understanding for practical applications of the fundamental structure of movement with related mechanics and its principles.
- 3.Analyze the sport movements and design movement-oriented exercise for improvement of performance.
- 4. Develop the program for improving performance as an innovative approach applying biomechanics.
- 5. Apply the knowledge and skills related to science of movement to

6.create a strong foundation for better sports performance and research.

THEORY SYLLABUS (45 HOURS)

UNIT – I Introduction to Sports Biomechanics (10 Hours)

- i. Meaning and Definition of Sports Biomechanics.
- ii. Importance of Sports Biomechanics to Physical Education Teacher, Athletes and Sports Coaches.
- iii. Terminology of Fundamental Movements- Fundamental concepts of Centre of Gravity, Equilibrium, Line of Gravity

UNIT - II Mechanical Concepts (10 Hours)

- i. Force Meaning, definition, types and its application to sports activities
- ii. Lever Meaning, definition, types and its application to human body.
- iii. Newton's Laws of Motion Meaning, definition and its application to sports activities (linear and angular).
- iv. Projectile Factors influencing projectile trajectory.

UNIT – III Kinematics of Human Movement (10 Hours)

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

UNIT – IV Kinetics of Human Movement And Biomechanical Principles (15 Hours)

- i. Linear Kinetics Inertia, Mass, Momentum, Friction.
- ii. Angular Kinetics Moment of Inertia, Couple, Stability.
- iii. The Principle of the Optimum Path of Acceleration.
- iv. The Principle of the Initial Force.
- v. The Principle of Reaction.
- vi. The Principle of Conservation of Momentum.

PRACTICAL SYLLABUS (30 Hours)

- 1. Evaluation of Velocity- Time Graph.
- 2. Determination of Centre of Gravity by Reaction Board Method.
- 3. Determination of Centre of Gravity by Joint Point Method.
- 4. Determination of Centre of Gravity by Main Point Method.
- 5. Determination of Centre of Combined Gravity (Joint Point Method).
- 6. Demonstration of the Principle of Conservation of Angular Momentum.
- 7. Demonstration of the Principle of Action and Reaction.

SUGGESTED READINGS:

- 1. Shaw, D. (2003). Sports Biomechanics. Khel Sahitya Kendra.
- 2. Shaw, D. (2022). Biomechanics and Kinesiology of Human Motion. Khel Sahitya Kendra.
- 3. Shaw, D. (2007). Mechanical Basis of Bio-Mechanics. Sports Publication.
- 4. Shaw, D. (2018). Pedagogic Kinesiology. Sports Publication.
- 5. Shaw, D. & Kumar, G. (2022). Kinesiology of Exercises with Apparatus. Khel Sahitya Kendra.
- 6. Shaw, D. & Mathur, N. (2022). Kinesiology of Freehand Exercises. Sports Publication.
- 7. Bunn, J. W. (1972). Scientific Principles of Coaching. Englewood Cliffs, N.J.: Prentice Hall Inc.

BSc-PE-DSC-12 (4): EXERCISE PRESCRIPTION FOR FITNESS AND HEALTH

| Course title & Code | Credits | Credit course | distributi | on of the | Eligibility criteria | Pre- requisite |
|---------------------------|---------|------------------|------------|------------|-------------------------|-------------------|
| | | Lecture | Tutorial | Practical/ | | of the |
| | | | | Practice | | course (if |
| | | | | | | any) |
| BSc-PE-DSC-12 (4): | 4 | 3 | 0 | 1 | Class | Nil |
| EXERCISE | | | | | XII pass | |
| PRESCRIPTION FOR | | | | | | |
| FITNESS AND | | | | | | |
| HEALTH | | | | | | |
| | | | | | | |

Learning Objective: The objective of this course is to provide an understanding, skill and practices to the learners about exercise prescription for health and fitness.

Learning Outcomes: At the end of the course the student will be able to: -

- 1. Acquire the knowledge and practices of exercise prescription on behalf of health status.
- 2. Deal with differentiation and the relation between exercise & physical activity.
- 3. Understand and demonstrate the direct and indirect health benefits of the exercise
- 4. Get an understanding and applications of acronyms FITT (Frequency, Intensity, Time

(duration), type (Mode of Exercise) (Training principles for batter training)

THEORY SYLLABUS (45 HOURS)

UNIT I - (09 Hours)

- 1. Exercise Prescription: Definition, Concept, and significance of exercise prescription.
- 2. Scientific Basis of Exercise Prescription
- 3. Guidelines to be followed while starting an exercise program.

UNIT II - (09 Hours)

- 1. Meaning and definition of exercise & physical activity
- 2. Differences between exercise & physical activity (chronic and acute effects for adaptation)
- 3. Relation between exercise & physical activity

UNIT III - (09 Hours)

1. Effect of sedentary lifestyle on health and Health benefits of exercise.

2. Sedentary population, Special population (Children, Expectant mothers, and the older population).

3. Stages of behavior Change in adapting regular exercise regimen.

UNIT IV - (09 Hours)

1. Exercise stress test, physical fitness test.

2. Understanding acronyms FITT (Frequency, Intensity, Time (duration), Type (Mode of Exercise).

3. Principles of Fitness Training

PRACTICAL SYLLABUS (30 HOURS)

1. Assessment Of Health-Related Physical Fitness Components (At Least Three Components)

2. Administering The PAR-Q

3. Measurement Of Health Status Using A Health Status Questionnaire.

4. Designing An Exercise Program For A Selected Population.

5. Evaluation Of An Exercise Programme

SUGGESTED READINGS-

1. American College of Sports Medicine (2000). ACSM's Guidelines for ExerciseTesting and Prescription. Lippincott Williams & Wilkines. Philadelphia. USA.

2. Corbin C G Welk W Corbin & K Welk (2005). Concepts of Fitness and Wellness.McGraw Hill Company. New York. USA.

3. Hales D (2006). An Invitation to Health. Thomson Wadsworth. Belmont. California.USA.

4. Kolecki JE and DQ Thomas (2007). Activities and Assessment Manual. Jones andBarlett Publishers.Sandburg. Massachusetts. USA.

5. Powers S and E Howley (2006). Exercise Physiology- Theory and Applications.McGraw Hill Co. New York. USA.

6. Thomas DQ and JE Kotecki (2007). Physical Activity and Health –An Interactive Approach. Jones and Bartlett Publishers. Sndbury. Massachusetts. USA.

BSc-PE-DSE-2 (4) : OPTIONAL GAME -II

(Select any one game from the list that hasn't been chosen before in Sem I, II & III as DSC/DSE & as per the facility available)

BSc-PE-DSE-2(4)-201:ATHLETICS

| Course title & Code | Credits | Credit course | distributio | n of the | Eligibility criteria | Pre-requisite of the course |
|------------------------|---------|------------------|-------------|------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class XII | Nil |
| 2(4)-201: | | | | | pass | |
| ATHLETICS | | | | | | |
| | | | | | | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes: After completion of the course the student will-

- 1. Gain knowledge of the historical development, organizational structure, and playfield technology of an Athletics
- 2. Understand and interpret the rules of various events in track and field, as well as the physiological aspects of warming up and technical coaching.
- 3. Acquire skills in the sport, learn about various fitness tests and skill evaluations, and assess player performance in technical practices such as sprint races, middle and long-distance races, hurdles, long jump, and shot put.
- 4. Learn about various fitness components and their forms, and apply this knowledge to improve performance, including track and arena marking for selected events.

THEORY SYLLABUS (30 HOURS)

UNIT-I (07 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational Structure (State, National, and International Level)

UNIT II (08 HOURS)

- Rules related to various Track & field events
- Basis of Warming up and Cooling down and its effect.
- Techniques of Coaching–Peptalk, Pre, during, and Post competition Coaching.

UNIT -III (08 HOURS)

• Basic skills and techniques in various Track & field events: sprint races, middle and long-distance races, hurdles races, jumping event-long jump, throwing events put, hammer throw.

UNIT -IV (07 HOURS)

- Introduction to Physical Fitness components related to various Track & field events
- Track marking and marking of different arenas for selected events mentionedin UNIT-III.

PRACTICAL SYLLABUS (60 HOURS)

1. Learning and demonstrating various skills/techniques of sprint races, middle and long-distance races, jumping events jump & High Jump, throwing events put & Discus.

2. Track marking and marking of different arenas for selected events in UNIT III.

SUGGESTED READINGS:

- Chauhan VS (1999).Khel Jagat Mein Athletics. A.P. Pub ,Jalandhar.
- BompaO.TudorandHalffG.Gregory.(2009)"PeriodizationTheoryandMethodologyof Training "Human Kinetics.NY.
- Handbook-RulesandRegulation.InternationalAthleticFederation(2010).
- Kumar, Pardeep. (2008). Historical Development of Track & Field. Friends Publication. New Delhi
- Maughan, R. and Gluson, M.(2004). The Biomechanical Basics of Athletic Performance. OxfordUniversityPress, U.K.
- VanaikA.(2017).OfficiatingandCoaching,FriendsPublication.NewDelhi.

BSc-PE-DSE-2 (4)-202: BADMINTON

| Course title& | Credits | Credit | distributio | n of the | Eligibility | Pre-requisite |
|---------------|---------|---------|-------------|------------|-------------|----------------|
| Code | | course | | | criteria | of the |
| | | Lecture | Tutorial | Practical/ | | course(if any) |
| | | | | Practice | | |
| BSc-PE-DSE-2 | 4 | 2 | 0 | 2 | Class XII | Nil |
| (4)-202 | | | | | pass | |
| BADMINTON | | | | | | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.

2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.

- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance
- 8. Mark and maintain Court/field.

THEORY SYLLABUS (30 HOURS)

UNIT I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National, and International Level)
- Introduction to Badminton Court

UNIT -II (08 HOURS)

- Rules and their interpretation.
- Basis of Warming up and Cooling down and its effect.

UNIT -III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills

Drills to improve skills in Badminton

UNIT -IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Badminton performance

PRACTICAL SYLLABUS (60 HOURS.)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Badminton

SUGGESTED READINGS:

• Bompa O Tudor and Half f G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

• Brahms Bernd-Voler. (2010). Badmnton Handbook. Mayer & Mayer Sports: UK. Unt-II,III&IV-p-9-14.

- Grice, T. (2007). Badminton: Steps to Success. 2nd Ed. Human Kinetics, USA.
- Gupta R. Kumar P .and Tyagi S.(2008). Textbook on Teaching Skill and Prowess (Part-I&II). Friends Publication. New Delhi.
- Singh, MK. (2007). Comprehensive Badminton. Friends Pub. New Delhi.
- Vanaik A.(2005). Playfield Manual, Friends Publication. New Delhi.
- Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

BSc-PE-DSE-2(4)-203: BASKETBALL

| Course title & Code | Credits | Credit course | distributi | on of the | Eligibility criteria | Pre- requisite of |
|------------------------------------|---------|------------------|------------|------------|-------------------------|----------------------|
| | | Lecture | Tutorial | Practical/ | criteria | the course |
| | | Lecture | 1 utoriai | Practice | | (if any) |
| BSc-PE-DSE-2(4)- 203:BASKETBALL | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.

2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.

- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance
- 8. Mark and maintain Court/field.

THEORY SYLLABUS (30 HOURS)

UNIT -I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Basketball Court

UNIT -II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT -III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Basketball

UNIT -IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Basketball performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Basketball

SUGGESTED READINGS

- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- Drewett, J. (2007). How to Improve at Basketball .Crab Tree Publishing Co., USA.
- JainNaveen(2003).PlayandLearnBasketBall.KhelSahityaKendra.NewDelhi.
- Singh, Hardayal. (2019). Science of Sports Training. DVSPublication, N. Delhi.
- Wilmore & Costill(2004). Physiology of Sports & Exercise. Human Kinetics, US.

BSc-PE-DSE-2(4)-204: CRICKET

| Course title & | Credit | Credit | distribut | ion of the | Eligibility | Pre-requisite |
|----------------|--------|--------|-----------|------------|-------------|----------------|
| Code | S | course | | | criteria | of the |
| | | Lectu | Tutori | Practical | | course(if any) |
| | | re | al | / | | |
| | | | | Practice | | |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class XII | Nil |
| 2(4)-204 | | | | | pass | |
| CRICKET | | | | | | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

• Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.

• Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.

- Acquire various skills of sports
- Evaluate fitness and skill and player's performance.
- Provide technical practice
- Understand fitness components and its forms.
- Inculcate Knowledge for practice and improvement of performance
- Mark and maintain Court/field.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Cricket ground

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Cricket

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Cricket performance

PRACTICAL SYLLABUS - (60 HOURS.)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Cricket

SUGGESTED READINGS:

- Bompa O. Tudor and Halff G.Gregory.(2009) Periodization Theory and Methodology of Training Human Kinetics. NY.
- Boycott,G.(2010).PlayCrickettheRightWay.GreatNorthernBooksLimited,U.K.
- Cricket(2008).SportsSkills:CricketFielding(KnowtheGame).A&CBlackPublishers.
- Hobls, J. (2008). The Game of Cricket Asitshould be played. Jepson Press, USA.
- Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- VanaikA.(2017).OfficiatingandCoaching,FriendsPublication.NewDelhi

Semester-IV BSc-PE-DSE-2(4)-205: FOOTBALL

| Course title & Code | Credi ts | Credit | distribution | Eligibili ty | Pre- requisite | |
|-----------------------------------|-------------|---------|--------------|------------------------|----------------------|------------------------------|
| Cout | LS | Lecture | Tutorial | Practical/ Practice | criteria | of the course (if any) |
| BSc-PE-DSE-2(4)- 205: FOOTBALL | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

- 1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- 2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.
- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance
- 8. Mark and maintain Court/field.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Football Ground

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Football

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Football performance

PRACTICAL SYLLABUS - (60 HOURS.)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Football

SUGGESTED READINGS

• Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

- Carling, C., Williams, M. and Reilling, T. (2006). Handbook of Soccer Match
- Analysis: A Systematic Approach to Improving Performance. Routledge Publishers, USA.
- Long, H. and Czarnecki, J. (2007). Football for Dummies. For Dummies Publisher, USA.
- Developing Strength, Speed and Endurance. Routledge Publisher, USA.
- Reilly, T. and J.C.D. Arau (2008). Science and Football V: The Proceedings of the
- 5th World Congress on Sports Science and Football, Volume5.
- Singh, Hardayal. (2019). Science of Sports Training. DVS Publication, N. Delhi.
- Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

BSc-PE-DSE-2(4)-206: GYMNASTICS

| Course title & Code | Credi | Credit | distributio | on of the | Eligibility | Pre- |
|---------------------|-------|---------|-------------|------------|-------------|--------------|
| | ts | course | | | criteria | requisite of |
| | | Lecture | Tutorial | Practical/ | | the |
| | | | | Practice | | course(if |
| | | | | | | any) |
| BSc-PE-DSE-2(4)- | 4 | 2 | 0 | 2 | Class XII | Nil |
| 206: GYMNASTICS | | | | | pass | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

- 1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- 2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.
- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National, and International Level)
- Introduction to Gymnastic Gymnasium

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Gymnastics

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Gymnastics performance

PRACTICAL SYLLABUS - (60 HOURS.)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve various Gymnastics skills

SUGGESTED READINGS

• Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

- Brown(2009). How to Improve at Gymnastics. Crabtree Publishing Co., USA.
- HarveyFJ (1998).Physical Exercises & Gymnastics. Khel Sahitya. New Delhi.
- JainR(2005).Play and Learn Gymnastics. Khel Sahitaya Kendra
- Mitchell, D., Davis, B .and Lopez, R. (2002). Teaching Fundamental

Gymnastics Skills. Human Kinetics, USA.

- Price, R.G. (2006). The Ultimate Guide to Weight Training for
- Gymnastics. 2ndEd.Sportsworkout.com.

• SchlegelEandDunn,CR.(2001).TheGymnasticsBook:TheYoungPerformer"sGuideto Gymnastics.FireflyBooks,USA.

- Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- Stickland, L.R. (2008). Gende r Gymnastics. Trans Pacific Press, Japan.
- VanaikA.(2017).Officiating and Coaching, Friends Publication. NewDelhi

BSc-PE-DSE-2(4)-207: HANDBALL

| Course title & Code | Credits | Credit | distribu | tion of the | Eligibility | Pre-requisite |
|----------------------|---------|---------|----------|-------------|-------------|---------------|
| | | course | | | criteria | of the |
| | | Lecture | Tutorial | Practical/ | | course(if |
| | | | | Practice | | any) |
| BSc-PE-DSE-2(4)-207: | 4 | 2 | 0 | 2 | Class XII | Nil |
| HANDBALL | | | | | pass | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

- 1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- 2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.
- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Handball Court

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and post-match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Handball

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Handball performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Handball

SUGGESTED READINGS: -

• Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

- JainD(2003).Play & Learn Handball. KhelSahityaKendra.NewDelhi.
- Kleinman,I.(2009).CompletePhysicalEducationPlans.2ndEd.HumanKinetics,USA.
- Page, J. (2000). Ball Games. Lerner Sports Publisher, USA.
- Phillips, B.E. (2009). Fundamental Handball. Kessinger Publishers, USA.
- Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- Surhone, L.M.et.al, (2010). TeamHandball. Betascript Publishing, USA
- VanaikA.(2017).Officiating and Coaching, Friends Publication.NewDelhi

BSc-PE-DSE-2(4)-208: HOCKEY

| Course title & | Credits | Credi | t distribut | Eligibilit | Pre- | |
|----------------|---------|---------|-------------|------------|-----------|-----------|
| Code | | course | ę | У | requisite | |
| | | Lecture | Tutorial | Practical/ | criteria | of the |
| | | | | Practice | | course(if |
| | | | | | | any) |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class | Nil |
| 2(4)-208: | | | | | XII pass | |
| HOCKEY | | | | | | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

- 1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- 2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.
- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Hockey Ground

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Hockey

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Basketball performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Hockey

SUGGESTED READINGS; -

- 1. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 2. International Hockey Federation, Rules of the Game of Hockey with Guidance for Players and Umpires. International Hockey Federation.
- 3. Pecknold, R. and Foeste, A. (2009). Hockey: Essential Skills. McGrawHills, USA.
- 4. Illustrated edition. Sterling Publishers, USA.
- 5. Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- 6. Walter, R. and Johnson, M. (2009). Hockey Plays and Strategies. Human Kinetics, USA.
- 7. Wukovits, J.F. (2000). History of Hockey1st Ed. Lucent Books, USA.
- 8. VanaikA.(2017).Officiating and Coaching, Friends Publication.New Delhi.

BSc-PE-DSE-2(4)-209: JUDO

| Course title & | Credits | Credit | distribut | ion of the | Eligibilit | Pre- |
|----------------|---------|---------|-----------|------------|------------|-----------|
| Code | | course | | | У | requisite |
| | | Lecture | Tutoria | Practical/ | criteria | of the |
| | | | 1 | Practice | | course(if |
| | | | | | | any) |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class | Nil |
| 2(4)-209: JUDO | | | | | XII pass | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

- 1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- 2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.
- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Judo Dojo

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

• Techniques of Coaching – Pep talk, Pre, during, and post-match coaching.

- Basic skills and techniques of the skills
- Drills to improve skills in Judo

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Judo performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Learning to demonstrate various tests to evaluate motor components as listed in UNIT IV above.

SUGGESTED READINGS

- 1. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 2. Diago, T. (2005). Kodokan Judo Throwing Techniques. Kodansha International Publishers, Japan.
- 3. HarrisonEJ(2002).Coaching Successfully Judo. Sports. Delhi
- 4. JainD(2003). Play and Learn Judo. KhelSahitayaKendra.NewDelhi.
- 5. Law, M. (2009). Falling Hard: A Journey into the Worldof Judo. Trumpeter Publisher, Japan.
- 6. Putin, V., Shestakov, V. ad Levitsky, A. (2004). Judo: History, Theory and Practice. Blue Snake Books, Moscow.
- 7. Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- 8. Takahashi, M. (2005). Mastering Judo. Human Kinetics, USA.

BSc-PE-DSE-2(4)-210: KABADDI

| Course title & Code | Credi | Credit | distributi | on of the | Eligibility | Pre- |
|----------------------|-------|--------|------------|-----------|-------------|-----------|
| | ts | course | course | | | requisite |
| | | Lectur | Tutori | Practica | | of the |
| | | e | al | l/ | | course(if |
| | | | | Practice | | any) |
| BSc-PE-DSE-2(4)-210: | 4 | 2 | 0 | 2 | Class XII | Nil |
| KABADDI | | | | | pass | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

- 1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- 2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.
- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Kabaddi Court

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Kabaddi

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Kabaddi performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Kabaddi

SUGGESTED READINGS

- 1. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 2. Kumar, Dharmander. (2018). Kabaddiand It's Playing Techniques. Writers Choice, New Delhi.
- 3. Mishra, S.C. (2007). Teach Yourself Kabaddi. Sports Publications, New Delhi.
- 4. Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- 5. Syal, M. (2004). Kabaddi Teaching. Prerna Parkashan, New Delhi.
- 6. VanaikA.(2017).Officiating and Coaching, FriendsPublication.NewDelhi.

BSc-PE-DSE-2(4)-211: KHO-KHO

| Course title & | Credi | Credit | t distribut | tion of the | Eligibilit | Pre- |
|------------------|-------|--------|-------------|-------------|------------|------------|
| Code | ts | course | , | | ycriteria | requisite |
| | | Lectu | Tutor | Practic | | of |
| | | re | ial | al/ | | thecourse(|
| | | | | Practic | | if any) |
| | | | | e | | |
| BSc-PE-DSE-2(4)- | 4 | 2 | 0 | 2 | Class | Nil |
| 211: КНО-КНО | | | | | XII pass | |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

- 1. Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.
- 2. Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.
- 3. Acquire various skills of sports
- 4. Evaluate fitness and skill and player's performance.
- 5. Provide technical practice
- 6. Understand fitness components and its forms.
- 7. Inculcate Knowledge for practice and improvement of performance
- 8. Mark and maintain Court/field.

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Kho Kho ground

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Kho Kho

UNIT-IV (07 HOURS)

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Kho Kho performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Kho-Kho

SUGGESTED READINGS

- 1. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 2. ChakrabartyG(2002).Kho-Kho Aveloken.Khel Sahitya Kendra.Delhi.
- 3. Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- 4. VanaikA.(2005).Playfield Manual, Friends Publication. NewDelhi
- 5. VanaikA. (2017). Officiating and Coaching, FriendsPublication. NewDelhi

BSc-PE-DSE-2(4)-212: VOLLEYBALL

| Course title & Code | Credit s | Credit course | distributio | on of the | Eligibility criteria | Pre- requisite |
|--|-------------|------------------|-------------|-----------------------|-------------------------|---------------------|
| | 2 | Lecture | Tutorial | Practical/ Practic | 01100114 | of the course(if |
| | | | | e | | any) |
| BSc-PE-DSE-2(4)- 212: VOLLEYBALL | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective:-The Students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcomes : At the end of the course the student will be able to-

• Understand Historical Development, Organizational Structure and Playfield Technology of the respective sport/game.

• Interpret the rules of game as well as game knowledge in the areas of psychological basis of Warming up and technical aspects of coaching.

- Acquire various skills of sports
- Evaluate fitness and skill and player's performance.
- Provide technical practice
- Understand fitness components and its forms.
- Inculcate Knowledge for practice and improvement of performance

THEORY SYLLABUS (30 HOURS)

UNIT-I (08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National, and International Level)
- Introduction to Volleyball Court

UNIT-II (08 HOURS)

- Rules and their interpretation
- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III (07 HOURS)

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Volleyball

UNIT-IV (07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

• Importance of skill-related components for Volleyball performance

PRACTICAL SYLLABUS - (60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Volley Ball

SUGGESTED READINGS

- American Volleyball Coaches Association (2005). Volleyball: Skills
- & Drills. Human Kinetics, USA.

• Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.

- Kenny, B.andGregory, C. (2006). Volleyball: StepstoSuccess. HumanKinetics, USA.
- Scates, A.andLinn, M. (2002). Complete Conditioning for Volleyball. Human Kinetics, USA.
- Shondell, D. and Reynaud, C. (2002). The Volleyball Coaching Bible. Human Kinetics, USA.
- Singh, Hardayal. (1919). Science of Sports Training. DVSPublication, N. Delhi.
- TheNationalAllianceforYouth.Sports(2009).CoachingVolleyballFor

Dummies Publishers, USA.

- Volleyball, USA(2009). Volleyball: Systems and Strategies. Human Kinetics, USA.
- Vanaik A.(2017).Officiating and Coaching, Friends Publication. New Delhi

BSc-PE-DSE-2(4)-213: YOGA

| Course title & | Credit | Credit distribution of the | | | Eligibility | Pre- |
|------------------|--------|----------------------------|-------|------------|-------------|---------------|
| Code | S | course | | | criteria | requisite of |
| | | Lectu | Tutor | Practical/ | | the course(if |
| | | re | ial | Practice | | any) |
| BSc-PE-DSE-2(4)- | 4 | 2 | 0 | 2 | Class XII | Nil |
| 213: YOGA | | | | | pass | |

Learning Objective: -The Students will acquire knowledge and understanding of a specific sport in which an individual wish to excel.

Learning Outcomes: After completing the course, the students will:

1.Understand Origin of yoga, definition and scope of yoga, limitations and misconceptions,

importance of yoga in physical education and other fields

2.Learn about the prayer, perform Asanas, pranayama, shatkarma, bandha.

3.Treat Disease through yoga therapy- Asthma, high & lowB.P, diabetes, obesity, heart disease, insomania, arthritis, backache & female disease.

4. Apply Yoga-nidra/relaxation techniques

5.Understand Diet & constitution, components of nutrition, water, natural diet, balanced diet, fasting-its benefits, types & preparation.

THEORY SYLLABUS (30 HOURS)

UNIT-I (07 hrs lectures)

- Origin of yoga, definition, and scope of yoga, limitations, and misconceptions of Yoga
- Importance of yoga in physical education and other fields
- Yoga asana competition at: State, National, International, SGFI, AIU, etc.

UNIT-II (07 hrs lectures)

• Philosophical aspects of Yoga-Pre-Vedic, Vedic period; Buddhism, Upanishad period, Jainism & tantra

- Qualifications, qualities, and responsibilities of a coach,
- Duties/responsibilities of technical official, Scoring system and judgment criteria,

• Protocols for referees, judges, and officials.

UNIT-III (09 hrs lectures)

• Meaning, techniques, precautions & effects of the following:-

• Asanas: padmasana, vajrasana, sidhasana, paschimottanasa, halasana, sarvangasana, shalabhasana, ardhmatsyendrasana, bhujangasana, tadasana, vrikshasana, matsyasana, gomukhasana, ushtrasana, shavasana, makarasana, vrishchikasana, dhanurasana, purna matsyendrasana, chakrasana, ek pad sikandasana, bakasana, mayurasana, shirshasana

• Pranayama: anulom-vilom, bhastrika, suryabhedhen pranayama, sheetali, sheetkari, bhramari, ujjayi

• Shatkarma: neti, dhauti, nauli, basti, kunjal, kapal bhati, shankh prakshalana

• Bandhas: jalandhar, uddyana, mool bandha

UNIT-IV (07 hrs lectures)

• Disease-wise treatment through yoga therapy- Asthma, high & low B.P, diabetes, obesity, heart disease, insomnia, arthritis, backache & female disease

• Diet & Nutrition, components of nutrition, water, natural diet, balanced diet, fasting-its benefits, types &

preparation, and the importance of vegetarianism in yogic diet.

PRACTICALSYLLABUS (60 HOURS)

- 1. Prayer
- 2. Asanas, pranayama, shatkarma, bandha (as mentioned in theory)
- 3. Yoga-Nidra/relaxation techniques

SUGGESTED READINGS

- Anand Omprarkash (2001). Yog Dawra Kaya Kalp, Kanpur. Sewasth Sahitya Perkashan
- Iyengar, B.K.S. (1995). Light on Yoga : The Bible of Modern Yoga. Schocken Publishers, USA.
- Kaminoff, L. et al (2007). Yoga Anatomy. Human Kinetics, USA.
- Kirk, M. (2005). The Hatha Yoga Illustrated. Human Kinetics, USA.
- Sharma JP and Ganesh S(2007). Yog Kala Ek Prichya. Friends Publication. New Delhi

- Sharma J. P. (2007). Manav jeevan evam yoga. Friends Publication. New Delhi.
- Sharma Jai Prakash And Sehgal Madhu(2006). Yog-Shiksha. Friends Publication. Delhi.

• Sharma Jai Prakash and Rathore Bhupender Singh (2007). Yoga Ke Tatva. Friends Publication. Delhi

• Mukerji, A.P. (2010). The Doctorine and Practice of Yoga. General Books, LLC, New Delhi.

• Norton, W.W. (2010). Yoga for Osteoporosis : The Complete Guide. W.W. Norton & Company, USA.

- Sarin N (2003). Yoga Dawara Rogoon Ka Upchhar. Khel Sahitya Kendra
- Sri Swami Rama, (2001). Breathing. Rishikesh Sadhana Mandir Trust.
- Swami Ram (2000). Yoga& Married Life. Rishikesh Sadhana Mandir Trust
- Swami Swatma Ram: Patanjali Yoga Sutra
- Swami Veda Bharti (2000). Yoga Polity. Economy and Family. Rishikesh Sadhana Mandir Trust
- Text Book Hath Yoga Pradipika
- Text Book Patanjali Yoga Sutra
- Text Book Patanjali Yoga Sutra

Semester-III

BSc-PE-DSE-2(4)-214: SWIMMING

| Course title & Code | Credits | Credit | distribution | of the course | Eligibility criteria | Pre- requisite of |
|-----------------------------------|---------|---------|--------------|---------------|-------------------------|----------------------|
| | | Lecture | Tutorial | | the course | |
| | | | | Practice | | (if any) |
| BSc-PE-DSE-2(4)- 214: SWIMMING | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective: -The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome: -The student attains knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

- 1. A student will be able to learn about Historical Development, Organizational Structure and Playfield Technology of a sport/game.
- 2. A student will be able to understand and interpret the rules of the game as well as game knowledge in the areas of physiological basis of Warming up and technical aspects of coaching.
- 3. A student will be able to learn and acquire various skills of sports/games, gain knowledge about different techniques evaluation as well as the evaluation of player's performance.
- 4. A student will be learning about various fitness components and their forms. Further, the student will be able to practice and improve performance on the basis of knowledge gained in understanding various fitness components and their testing.

THEORY SYLLABUS (30 HOURS)

UNIT-I

(08 HOURS)

(08 HOURS)

- Introduction to Swimming game
- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)

UNIT-II

• Rules and their interpretation

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- Team Composition
- Basis of Warming up and cooling down and its effect

UNIT-III

- Techniques of Coaching Pep talk, Pre, during and Post match coaching
- Basic skills and techniques of the skills
- Drills to improve skills in Swimming

UNIT-IV

(07 HOURS)

(60 HOURS)

(07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.

Importance of skill-related components for swimming performance

PRACTICAL SYLLABUS -

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Swimming

SUGGESTED READINGS

- David J., Mathur M. (1994). "How to learn swimming in 30 days" UBS Publishers, New Delhi, India.
- 2. Jain. R. (2003). "Play and Learn Swimming" Khel Sahitya Kendra, New Delhi, India
- 3. Jain. D. (2003). "Swimming Skills & Rules" Khel Sahitya Kendra, New Delhi, India
- 4. Hardy, Colin (1987) "Handbook for the Teacher Of Swimming" Pelham books ltd., London (U.K)
- 5. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 6. Thomas, David G., (2005). "Swimming STEPS TO SUCCESS" Human Kinetics, U.S.A
- 7. Singh, Hardayal. (1919). Science of Sports Training. DVS Publication, N. Delhi.
- 8. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

Semester-III

| Course Code | | & | Cred its | Credit distribution of the course | | | Eligibility criteria | Pre- requisite of the course |
|---------------------|-----|------|-------------|-----------------------------------|----------|------------------------|-------------------------|------------------------------------|
| | | | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| BSC-PE-DS WRESTL | • • | 215: | 4 | 2 | 0 | 2 | Class XII pass | Nil |

BSc-PE-DSE-2(4)-215: WRESTLING

Learning Objective: - The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome: - The student attains knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

- 1. A student will be able to learn about Historical Development, Organizational Structure and Playfield Technology of a sport/game.
- 2. A student will be able to understand and interpret the rules of the game as well as game knowledge in the areas of physiological basis of Warming up and technical aspects of coaching.
- 3. A student will be able to learn and acquire various skills of sports/games, gain knowledge about different techniques evaluation as well as the evaluation of player's performance.
- 4. A student will be learning about various fitness components and their forms. Further, the student will be able to practice and improve performance on the basis of knowledge gained in understanding various fitness components and their testing.

THEORY SYLLABUS (30 HOURS)

UNIT-I

(08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Wrestling Game

UNIT-II

(08 HOURS)

• Rules and their interpretation

- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Wrestling

UNIT-IV

- Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility.
- Importance of skill-related components for Wrestling performance

PRACTICAL SYLLABUS -

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills in Wrestling.

SUGGESTED READINGS

- 1. Gable, D. (1999) "Coaching Wrestling Succefully" Human Kinetics, U.S.A
- 2. Camaione D. & Tillman K. (1980) "Teaching & Coaching Wrestling A Scientific Approach" John Wiley & Sons. Inc., U.S.A.
- 3. Kumar N. (2005) "Play & Learn Wrestling" Khel Sahitya Kendra, New Delhi, India.
- 4. Patwardhan G. (2002) "Coaching Succefully Wrestling" Sports Publication, Delhi.
- 5. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

(07 HOURS)

(07 HOURS)

(60 HOURS)

Semester-III

BSc-PE-DSE-2(4)-216: TABLE TENNIS

| Course title & Code | Credits | Credit d | istribution o | Eligibility criteria | Pre- requisite | |
|--------------------------------------|---------|----------|---------------|-------------------------|-------------------|------------------|
| | | Lecture | Tutorial | Practical/ Practice | | of the course |
| | | | | | | (if any) |
| BSC-PE-DSE-2(4)-216: TABLE TENNIS | 4 | 2 | 0 | 2 | Class XII pass | Nil |

Learning Objective: -The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel.

Learning Outcome: -The student attains knowledge, understanding, interpreting and analyzing proficiency in a game of one's choice.

- 1. A student will be able to gain knowledge concerning Historical Development, Organizational Structure and Playfield Technology of a sport/game.
- 2. A student will be able to understand and interpret the rules of the game as well as game knowledge in the areas of physiological basis of Warming up and technical aspects of coaching.
- 3. A student will be able to learn and acquire various skills of sports/games, gain knowledge about different techniques evaluation as well as the evaluation of player's performance.
- 4. A student will be learning about various fitness components and their forms. Further, the student will be able to practice and improve performance on the basis of knowledge gained in understanding various fitness components and their testing.

THEORY SYLLABUS (30 HOURS)

UNIT-I

(08 HOURS)

- Historical Development and Modern Trends (National and International Level)
- Organizational structure (State, National and International Level)
- Introduction to Table Tennis Game

UNIT-II

(08 HOURS)

• Rules and their interpretation

- Team Composition
- Basis of Warming up and cooling down and its effect.

UNIT-III

- Techniques of Coaching Pep talk, Pre, during, and Post match coaching.
- Basic skills and techniques of the skills
- Drills to improve skills in Table Tennis

UNIT-IV

(07 HOURS)

• Introduction to Physical Fitness components: Strength, Speed, Endurance, Coordinative Abilities and Flexibility

• Importance of skill-related components for Table Tennis performance

PRACTICAL SYLLABUS -

(60 HOURS)

- Learning and demonstrating various skills/techniques of sports.
- Drills to improve skills of Table Tennis

SUGGESTED READINGS

- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 2. Jain D. (2001) "Teaching& Coaching Table Tennis" Khel Sahitya Kendra, Delhi.
- 3. Burn B. (1979) "The Science of Table Tennis" S. Chand & Company ltd., N. Delhi.
- 4. Singh, Hardayal. (1919). Science of Sports Training. DVS Publication, N. Delhi.
- 5. Jain D. (2003) "Table Tennis skills & Rules" Khel Sahitya Kendra, N. Delhi.
- 6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

Note: Examination scheme and mode shall be as prescribed by the Examination Branch, University of Delhi, from time to time.

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(07 HOURS)

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES UGCF: B.SC. PHYSICAL EDUCATION, HEALTH EDUCATION AND SPORTS (HONS.) NEP-2020

| SEMESTER | COURSE | CONTENT /CREDITS * | | |
|----------|--|--|--|--|
| V | Discipline Specific Course (DSC) | DSC-13 (4): Organization& Administration in Physical Education & Sports | | |
| | | DSC -14 (4): Fundamentals of Sports Nutrition | | |
| | | DSC -15 (4): Athlete Care & Rehabilitation | | |
| | Discipline Specific Elective (DSE) | CHOOSE ONE FROM POOL OF COURSES | | |
| | | DSE-3(4)-301: Game of Specialization Game - I (Select any one game from the games already studied in Sem I to IV as DSC/DSE Game) | | |
| | | DSE-3(4)-302: Sports Journalism | | |
| | | DSE -3(4) -303: Sports Facility Planning and Management | | |
| | Generic Elective (GE) | Choose one from a pool of courses (of other Departments) GE-5 (4) | | |
| | Ability Enhancement Course (AEC) | NONE | | |
| | Skill Enhancement Course (SEC) | Choose one SEC or Internship/ | | |
| | OR | Apprenticeship/ Project/ Community Outreach (2) | | |
| | Internship/Apprenticeship/Project (2) | | | |
| | Value Addition Course (VAC) | NONE | | |
| | | Total Credits= 22 | | |

B.Sc (PE, HE & S) Hons.

* (FIGURE IN BRACKETS DENOTE CREDITS)

SEMESTER V

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES

UNIVERSITY OF DELHI

B.Sc. (Hons.) (Physical Education, Health Education and Sports)

SEMESTER- V BSc-PE-DSC-13(4): ORGANISATION AND ADMINISTRATION IN PHYSICAL EDUCATION AND SPORTS

| Course title & Code | Credit | Credit dist | Credit distribution of the course | | | Pre-requisite of |
|---------------------|--------|-------------|-----------------------------------|------------|----------|---------------------|
| | S | Lecture | Tutorial | Practical/ | criteria | the course (if any) |
| | | | | Practice | | |
| BSc-PE-DSC-13(4): | 4 | 3 | 1 | 0 | Class X | I Nil |
| ORGANISATION AND | | | | | pass | |
| ADMINISTRATION IN | | | | | | |
| PHYSICAL EDUCATION | | | | | | |
| AND SPORTS | | | | | | |
| | | | | | | |

Learning Objective: -The learner will acquire knowledge and understanding with applications and skills in Organisation and Administration in Physical Education and Sports in real-life situations.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Understand the scope and importance of Organisation and Administration in physical education and sports,
- 2. Follow the responsibilities of the Physical Education teacher and pupil leader.
- 3. Acquire knowledge about Components of Organizations and Administration.
- 4. Create a budget by acquiring knowledge of budget-making
- 5. Maintain Records and Registers of Budgets
- 6. Manage Sports Facilities & Equipment
- 7. Organize Competitions, extra-murals, intra-murals, and athletic meets

THEORY SYLLABUS (45 hours)

Unit – I: Introduction to Organisation and Administration& Organisation Structure in Sports (15 Hours)

- 1.1 Meaning, Scope, and importance of Organisation and Administration in physical education and sports
- 1.2 Qualification and Responsibilities of Physical Education teacher and pupil leader
- 1.3 Analysis of Sports organisations (Local, National, International)
- 1.4 Governing Bodies and Their Functions

1.5 Club structure and affiliation &Steps to Develop Academy/Club/ Coaching Centers.

UNIT- II: Budget Making and Maintenance of Records and Registers (10 Hours)

2.1 Budget: Meaning, Importance of Budget Making,

2.2 Criteria of a good Budget, Sources of Income, Expenditure, Preparation of Budget for Sports Organizations.

2.3 Records and Registers: Maintenance of attendance Register, stock register, cash register, and physical efficiency record.

UNIT-III: Management of Sports Facilities & Equipment Management (10 Hours)

3.1 Facilities and equipment management: Types of facilities, infrastructure-indoor, outdoor3.2 Care of school building, Gymnasium, swimming pool, Play fields, Playgrounds

3.3 Equipment: Determining supply and equipment; Guidelines for Purchasing supply of equipment; Store Keeping; Care and maintenance.

UNIT-IV: Competition Organisation (10 Hours)

4.1 Importance and Types of Tournaments

4.2 Organization Structure of Athletic Meet

4.3 Sports Event- Intramurals & Extramural Tournament planning

SUGGESTED READING

1. Broyles, F. J. & Rober, H. D. (1979). Administration of sports, Athletic program: A Managerial Approach. New York: Prentice Hall Inc.

2. Bucher, C. A. (1983). Administration of Physical Education and Athletic program. St. Lolis: The C.V.

3. Hosby Co. Kozman, H.C. Cassidy, R. & Jackson, C. (1960). Methods in Physical Education. London: W.B. Saunders Co. Pandy, L.K. (1977).

4. Gyanodayal Press. Tirunarayanan, C. &Hariharan, S. (1969).Organization & administration of Physical Education. Madras:

5. Voltmer, E. F. &Esslinger, A. A. (1979).Methods in Physical Education. Karaikudi: South India Press.

6. The organization and administration of Physical Education. New York: Prentice Hall Inc

Semester-V

B.Sc-PE-DSC 14(4): FUNDAMENTALS OF SPORTS NUTRITION

| ourse title& Code | Credits | Creditdistributionofthe course | | | Eligibility criteria | Pre-rec ofthe | quisite course(if |
|-----------------------|---------|--------------------------------|----------|----------|-------------------------|------------------|----------------------|
| | | Lecture | Tutorial | | any) | | |
| | | | | Practice | | | |
| Sc-PE-DSC 14(4): | 4 | 3 | 1 | 0 | ClassXII pass | NIL | |
| JNDAMENTALS OF | | | | | | | |
| ORTS NUTRITION | | | | | | | |
| | | | | | | | |

Learning Outcome: - The student would be able to apply the knowledge of nutrition in day-to-day life and sports and training. Such core knowledge and skills help to create a strong foundation to engage human subjects of all ages, sexes, and abilities.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Understand nutrition & nutrients, the significance of their sources &function requirements in normal health conditions
- 2. Acquire knowledge about Energy metabolism, RMR, energy expended on physical activity, and TEF.
- 3. Understand the Concept of a balanced diet, dietary and nutritional requirements for children, adolescents, adult men and women, and elderly
- 4. Consider Nutrition for sports/exercising person during training, pre-event meal, during event and post-event meal.
- 5. Understand Fluid requirements in sports
- 6. Understand eating disorders in Sports Persons, Female athletic triad, and Sports anemia
- 7. Identify Nutrients as ergogenic aids for sports and exercise, Supplements, and their role in sports.

THEORY SYLLABUS: 45 Credits

UNIT-I (12 Hours)

1.1 Introduction to basic concepts in nutrition-Nutrients of physiological significance their sources & functions,

1.2 Basic food groups, Concept of a balanced diet.

1.3 Nutritional requirements- Introduction to Estimated Energy Requirements (EAR) and Recommended Dietary Allowances for Indians (RDA). Concept of Tolerable Upper Limit.

1.4 Basic Dietary Guidelines for Indians for good health and prevention of diseases.

UNIT II (7Hours)

2.1 Energy Metabolism- Definition, catabolic and anabolic reactions.

2.2 Energy components of Energy Expenditure-BMR, RMR, Energy Expended on Physical Activity, and TEF.

2.3 Energy requirements of specific groups, Energy cost of activities, Energy systems used in different sports, Energy substrate for activities of different intensity and duration;

2.4 Concept of energy balance in maintaining body weight.

UNIT-III (12 Hours)

3.1 General and specific dietary guidelines in planning meals for children, adolescents, adult men and women and the elderly.

3.2 Nutritional and dietary modifications for body weight and body composition management

3.2 Nutritional considerations for sports/exercising person(endurance and strength sports/exercise training) during training, and competition including pre-event meals, during the event, and post-event meal.

UNIT-IV (14Hours)

4.1 Importance of hydration and fluid balance in physical activity and sports, Symptoms, and prevention of dehydration, Types of sports drinks - Hypotonic, Isotonic, and Hypertonic drinks.

4.2 Nutrition-related problems in sports persons- Eating disorders, Sports anaemia, Female athletic triad (FAT) Relative energy deficiency syndrome (RED-S) and

4.3 Nutrients as supplements and ergogenic aids for sports and exercise

SUGGESTED READINGS

- 1. Antoni, J. et al, Editors (2008). Essentials of Sports Nutrition and Supplements. Humana Press, USA.
- 2. Benardot, D. (2005). Advanced Sports Nutrition. Human Kinetics, USA.
- 3. Clark, N. (2008). Sports Nutrition. 4th Ed. Human Kinetics, USA.
- 4. Dietary Guidelines for Indians (2024). ICMR/NIN Publication
- 5. Eberle, S.G. (2007). Endurance Sports Nutrition. Human Kinetics, USA.
- 6. Finic HH et al (2006), Practical Applications in Sports Nutrition J & B Publisher, USA.
- 7. ILSI- India, NIN, SAI. (2007) Nutrition and hydration Guidelines for excellence in sports performance;
- 8. Lal PR (2009) Handbook of Sports Nutrition, Friends Publication

- 9. *R*, Chadha *and P*. Mathur. (2015) Nutrition: A Lifecycle Approach. ISBN-13: 978-8125059301. The Orient Blackswan. Co.
- 10. .McArdle,W.d. & Katch, V.L. (2008). Sports and Exercise Nutrition. 3rd Ed. Lippincott Williams and Wilkins, USA.
- 11. Meyer, D.E.L. (2006). Vegetarian Sports Nutrition. Human Kinetics Publishers, USA.
- 12. Whitney E. and Rolfes S.R. (2005). Understanding Nutrition. Thomson Wadsworth. Belmont.California. U.S.A

SEMESTER-V

BSc-PE-DSC-15 (4): ATHLETE CARE AND REHABILITATION

| Course title & Code | Credits | Credit distribution of the course | | | Eligibility criteria | Prerequisite of the |
|---------------------|---------|-----------------------------------|---|----------|-------------------------|------------------------|
| | | Lecture Tutorial Practical/ | | | | course |
| | | | | Practice | | (if any) |
| BSc-PE-DSC-15 (4): | 4 | 3 | 0 | 1 | Class | NIL |
| ATHLETE CARE AND | | | | | XII | |
| REHABILITATION | | | | | pass | |

Learning Objective:-To acquaint students with the knowledge of Athletic Care and Rehabilitation application.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Apply training principles in developing various exercise programs and improving sports performances.
- 2. Understand the concept of ACR/SM.
- 3. Understand the Principles of care and rehabilitation and the Role of physical educators in athletic care and Rehabilitation
- 4. Learn about sports injuries
- 5. Classify sports injuries with their causes and reasons
- 6. Prevent And Manage Sports Injuries
- 7. Identify the Risk Factors of Sports Injuries
- 8. Rehabilitate and provide First Aid and Safety Procedures in Playfield and Gym
- 9. Manage of sports specific injuries
- 10. Prevent and Manage Health issues in different climatic conditions.
- 11. Apply CPR (Cardio Pulmonary Resuscitation) and First Aid for Soft tissue, bone & joint injuries
- 12. Apply Exercise therapy in rehabilitation

THEORY SYLLABUS: 45 HOURS

UNIT-I: INTRODUCTION (9 HOURS)

1.1Meaning and definition of related terminologies- Athlete, fitness, wellness, performance, Care, Rehabilitation, Sports, Medicine, Sports Medicine

1.2 Aim, objectives and scope of ACR/SM

1.3 Principles of care and rehabilitation

1.4 Role of physical educators in athletic care and Rehabilitation

UNIT- II: SPORTS INJURIES (8 HOURS)

- 2.1 Introduction, meaning and definition
- 2.2 Various classifications of sports injuries
- 2.3 Causes and Reasons of Sports Injuries

UNIT-III PREVENTION AND MANAGEMENT OF SPORTS INJURIES (10 HOURS)

- 3.1 Importance of Prevention of Sports Injuries
- 3.2 Identification of Risk Factors of Sports Injuries
- 3.3 Steps for Preventing Sports Injuries Training Strategies and Equipment Recommendations
- 3.4 Introduction to Rehabilitation Modalities and First Aid. Exercise therapy in rehabilitation
- 3.5 Safety Procedures in Playfield and Gym

UNIT- IV MANAGEMENT OF SPORTS-SPECIFIC INJURIES

- 4.1 Sports-specific injuries- acute and chronic, with special emphasis on the specific risk factors, prevention, and management of various sporting events-
- a. Individual events: Field & Track Events
- b. Team events: Hockey, Cricket, and Football
- c. Combat sports
- d. Water sports
- 4.2 Prevention and management of Health issues in different climatic conditions: Heatrelated injuries – Heat stroke, Heat exhaustion &cold related injuries – Frostbite – Hypothermia – Altitude Sickness.

PRACTICALS (30 HOURS)

CPR (Cardio Pulmonary Resuscitation) and First Aid for Soft tissue, bone & joint injuries

- 1. Therapeutic Modalities, Principles, and Equipment used for
- Cryotherapy
- Thermotherapy
- Electrotherapy
- Hydrotherapy
- Massage

- 2. Exercise therapy
- Isometric exercise
- Isotonic exercise

SUGGESTED READINGS-

- Jain, Rachna, (2002) Sports Medicine, New Delhi: Khel Sahitya Kendra,.
- Vijay Ed., (2001) Hand book of Sports Medicine, Delhi: Friends Pub.
- Shaw, D. (2021). Athletic care and rehabilitation. Friends publications.

SEMESTER-V

DSE-3(4):GAME OF SPECIALIZATION I

(Select any one game from the games already studied in Sem I to IV as DSC/DSE Game)

SEMESTER-V

BSc-PE-DSE-3(4)-301 (i):ATHLETICS

| Course title &Code | Credit s | Credit dis | tribution of t | - | Eligibility criteria | Pre-requisite of the course |
|--|-------------|------------|----------------|------------------------|----------------------|-----------------------------|
| | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| BSc-PE- DSE-3(4)-301 (i): ATHLETICS | 4 | 2 | 0 | 2 | Class XII pass | NIL |

Learning Objectives: - The learner will be able to use the knowledge of athletics on the ground and will have a command of the basic and advanced rules and regulations of marking the track and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Marking, constructing, and maintaining Track & Field,
- 2. Prepare technically Focused Athletic Events
- 3. Train children, beginners, intermediate players(advanced sportspersons) seniors (high performance sportspersons)
- 4. Apply Safety measures and prevent injuries
- 5. Manage injuries' Causes
- 6. Rehabilitate and massage athletes
- 7. Organize athletics meet
- 8. Identify the classification and components of nutritionand energy requirements of athletes in specified events.

THEORY SYLLABUS (30 HOURS)

UNIT-I TRAINING AND TECHNICAL PREPARATION FOR SPECIFIED ATHLETIC EVENTS (8 HOURS)

1.1Technical preparation

1.2 Marking, construction, and maintenance of Track & Field

1.3 Physical, physiological, psychological and sociological characteristics of athletes

1.4 Technical Preparation for Focused Athletic Events, Required motor abilities and their technical preparation, Technical and tactical preparation, Physical, physiological, psychological and sociological characteristics of athletes

UNIT-II SYSTEMATIZATION OF TRAINING PROCESS (8 HOURS)

2.1 General training for children, Training for beginners, Training for intermediate players (advanced sportspersons)

- 2.2 Training for seniors (high-performance sportspersons)
- 2.3 Safety measures and prevention of injuries, Management of Injuries
- 2.4 Causes and remedies of injuries
- 2.5 Physiotherapy, rehabilitation, and massage

UNIT-III ORGANIZATION OF THE ATHLETICS MEET (7 HOURS)

- 3.1 Structure and organization of the athletics meet
- 3.2 Budgeting, purchase of equipment
- 3.3 Preparation, execution, and conclusion of the respective events
- 3.4 Protocols and Ceremonies

UNIT-IV SPORTS NUTRITION (7 HOURS)

- 4.1 Meaning, definition, classification, and components of nutrition
- 4.2 Energy requirements of athletes in specified events
- 4.3 Nutritional requirements of athletes: pre-, during, and post-competition phases
- 4.4 Electrolytes sports drinks, minerals, and supplements: pre-, during, and post-competition

PRACTICALS (60 HOURS)

- 1. Identify and implementation warming up cooling down exercises
- 2. Supplementary exercises for specified events, practice, and training of selected events

3. Propose to organize an athletic meet

REFERENCES

- Renwick, G.R., (2001) Play Better Athletics, Delhi: Sports Pub.,.
- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and

Methodology of Training" Human kinetics. NY.

- Handbook-Rules and Regulation. International Athletic Federation (2010).
- Kumar, Pardeep. (2008).Historical Development of Track & Field. Friends Publication. New Delhi

• Maughan, R. and Gluson, M. (2004). The Biomechanical Basics of Athletic Performance. Oxford University Press, U.K.

• VanaikA. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester V

BSc-PE-DSE-3 (4)-301 (ii): BADMINTON

| Course title & | Cre | Credit distribution of the | | | Eligibility | Pre- |
|----------------|------|----------------------------|-----------------------------|---|-------------|--------------|
| Code | dits | course | | | criteria | requisite of |
| | | Lecture | Lecture Tutorial Practical/ | | | the course |
| | | Practice | | | | (if any) |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class | NIL |
| 3(4)-301 (ii): | | | | | XII pass | |
| BADMINTON | | | | | | |

Learning Outcome: - The learner will be able to use badminton knowledge on the ground and have a command of the basic and advanced rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Marking, constructing and maintaining Badminton court,
- 2. Officiate and Coach with an understanding of Duties/responsibilities
- 3. Identifies Protocols of referees, judges, umpires, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 4. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 5. Apply Safety measures and prevent injuries
- 6. Manage injuries' Causes
- 7. Rehabilitate and massage athletes
- 8. Organize Competitions
- 9. Identify classification and components of nutrition and energy requirements of athletes in specified events
- 10. Train motor components through technical preparation

THEORY SYLLABUS (30 HOURS)

UNIT-I TECHNICAL PREPARATION FOR BADMINTON (8 HOURS)

- 1.1 Training of motor components
- 1.2 Technical preparation reflexes, perceptual sense, neuro-muscular coordination
- 1.3 Construction and maintenance of badminton court, equipment etc.
- 1.4 Physical, physiological, and Psychological preparation

1.5 Officiating and Coaching -Duties/responsibilities, qualifications, and qualities of a coach, Philosophy of coaching, Qualifications, and responsibilities/functions of technical officials, Protocols of referees, judges, umpires, Role of sports psychologists, sports physiotherapists and fitness trainers

UNIT-II SYSTEMATIZATION OF TRAINING PROCESS (8 HOURS)

2.1 Systematizing training process for badminton players – general warming-up, specific warming-up and cooling-down

2.2 Supplementary exercises, basic skills, weight-training and circuit-training

2.3 Training for beginners, Training for intermediate players - advanced sportspersons,

Training for seniors - high-performance sportspersons.

2.4 Prevention of injuries and Safety measures.

UNIT-III ORGANISATION OF THE COMPETITION (7 HOURS)

- 3.1 Planning for the Competition
- 3.2 Selection of men, material and management
- 3.3 Concluding the competition submission of accounts, preparing a report
- 3.4 Protocols and Ceremonies

UNIT-IV DIET, NUTRITION AND SPORTS PERFORMANCE (7 HOURS)

- 4.1 Meaning, definition, classification, and components of nutrition
- 4.2 Energy requirements of badminton players
- 4.3 Nutritional requirements of badminton players: pre-, during, and post-competition phases

PRACTICALS (60 HOURS)

- 1. Demonstration of skills
- 2. Training for footwork

3. Shadow practice and pressure training, planning for competition, organization of competition/seminar/workshop.

SUGGESTED READINGS

- Ashok Kumar, (2003) Badminton, New Delhi Discovery,.
- Narang, P. (2005), Play and Learn Badminton, Khel Sahitaya Kendra,.
- Singh, M.K., (2006) A to Z Badminton, New Delhi, Friends Pub.,.
- Singh, M.K., Comprehensive Badminton, N.D. Friends Pub., 2007.
- Brahms Bernd-Voler. (2010). Badminton Handbook. Mayer & Mayer Sports: UK. Unit-II,III&IV-p-9-14.
- Grice, T. (2007). Badminton: Steps to Success. 2nd Ed. Human Kinetics, USA.
- Gupta R. Kumar P. and Tyagi S.(2008). Textbook on Teaching Skill and Prowess (Part-I&II). Friends Publication. New Delhi.
- MK. (2007). Comprehensive Badminton. Friends Pub. New Delhi.

• Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V

BSc-PE-DSE-3 (4)-301 (iii):BASKETBALL

| Course title & Code | Credit | Credit distribution of the | | | Eligibility | Prerequisit |
|---------------------|--------|-----------------------------|---|---|-------------|-------------|
| | S | course | | | criteria | e of the |
| | | Lecture Tutorial Practical/ | | | | course |
| | | Practice | | | | (if any) |
| BSc-PE-DSE-3 (4)301 | 4 | 2 | 0 | 2 | Class XII | NIL |
| (iii): BASKETBALL | | | | | pass | |

Learning Outcome: - The learner will be able to use the knowledge of basketball in the ground and will have a command of the basic and advanced rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Understand Prerequisites of preparation and training
- 3. Marking, construct and maintain Basketball court,
- 4. Officiate and Coach with understanding of Duties/responsibilities
- 5. Identifies Protocols of referees, judges, umpires, Role of sports psychologists, sports physiotherapists, and fitness trainers

6. Train children, beginners, intermediate players (advanced sportspersons) seniors (high performance sportspersons)

- 7. Organize Competitions
- 8. Train motor components through technical preparation

9. Conduct Tests (AAHPERD Youth Fitness Test, AAHPERD Health-related Fitness Test, Fleishman Physical Fitness Test, National Physical Efficiency Test, Indiana motor Fitness Test, Skill Tests – AAHPERD, Johnson Basketball Test Battery, SAI Test Battery, Knox Test Evaluation of team performance) Observe techniques, statistical techniques and scouting charts.

THEORY SYLLABUS (30 HOURS)

UNIT-I PERFORMANCE ASSESSMENT OF ATHLETES (8 HOURS)

1.1Organization-Selection of a team and conduct of a camp, Playfield technology- planning, construction and maintenance of a basketball court

1.2 Conduct a tournament, Short-term and long-term planning for the organization of a competition

1.3 Report writing, photography, analysis, and commentary

1.4 Evaluation of players' performance during matches, Video analysis of skills and

UNIT-II PREPARATION AND TRAINING (8 HOURS)

2.1 Prerequisites of preparation and training

2.2 Preparation, pre-contact movement, contact Teaching progression, Coaching points, Drills for skill development (any five), Defense patterns and drills (zone and man - man drill), Lead up games for beginners in basketball, Teaching of basketball skills - preparing a lesson plan and tactical application.

2.3 Development of motor components with specific reference to basketball, Specific training methods for different positions

2.4 Development of basketball-specific fitness components

UNIT-III ORGANIZATION (7 HOURS)

3.1 Selection of a team and conduct of camps.

- 3.2 Playfield technology-planning, construction, and maintenance of Basketball Court.
- 3.3 Conduct of a Tournament
- 3.4 Short-Term and Long-Term Planning for organization of a competition.
- 3.5 Report writing, photography, analysis, and commentary.

UNIT-IV MEASUREMENT AND EVALUATION (7 HOURS)

4.1 Fitness tests- AAHPERD Youth Fitness Test, AAHPERD Health-related Fitness Test, Fleishman Physical Fitness Test, National Physical Efficiency Test, Indiana motor Fitness Test

4.2 Skill Tests – AAHPERDD, Johnson Basketball Test Battery, SAI Test Battery, Knox Test

4.3 Evaluation of team performance – observation techniques, statistical techniques, scouting charts

PRACTICAL (60 HOURS)

- 1. General and specific warm-up
- 2. Teaching fundamental skills
- 3. Drills to develop fundamental skills
- 4. Drills for defense and offense system
- 5. Preparing and taking lesson plans for above
- 6. One-on-one measurement, development, and evaluation of motor components
- 7. Preparing training load and schedule for basketball players
- 8. Executing: Fitness test, Knowledge test, Specific skill test
- 9. Organizing Basketball tournaments.

SUGGESTED READINGS

- 1. Jain, (2003) Naveen Play and Learn Basket Ball, Khel Sahitya Kendra, New Delhi-
- 2. Sharma O.P. (2003) Basket Ball Skills and Rules, Khel Sahitya Kendra Delhi-
- 3. Thani, Yograj, (2002) Coaching Successfully Basket Ball, Sports Publisher, Delhi-.
- 4. Drewett, J. (2007). How to Improve at Basketball. Crab Tree Publishing Co., USA.
- 5. Wilmore & Costill (2004). Physiology of Sports & Exercise. Human Kinetics, US.
- 6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester V BSc-PE-DSE-3 (4)-301 (iv):CRICKET

| Course title & | Credits | Credit distribution of the course | | | Eligibility criteria | Prerequisit e of the |
|--|---------|-----------------------------------|----------|------------------------|-------------------------|-------------------------|
| Code | | Lecture | Tutorial | Practical/ Practice | | course (if any) |
| BSc-PE-DSE-3 (4)-301 (iv): CRICKET | 4 | 2 | 0 | 2 | ClassXII pass | NIL |

Learning Outcome: - The learner will be able to use the knowledge of cricket in the ground and will have a command of the basic and advanced rules and regulations of marking the ground and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand the Prerequisites of preparation and training
- 4. Marking, construct and maintain Fields,
- 5. Officiate and Coach with an understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 8. Organize Competitions
- 9. Train motor components through technical preparation
- 10. Conduct Tests (AAHPERD Youth Fitness Test, AAHPHER Health Related Fitness Test, Fleishman Physical Fitness Test, National Physical Efficiency Test, Indiana motor Fitness Test Skill tests beep test, running between the wickets, different kinds of catches and Throw Evaluation of team performance) observe techniques, statistical techniques, and scouting charts.

THEORY SYLLABUS (30 HOURS)

UNIT-I PERFORMANCE-RELATED ASSESSMENT (8 HOURS)

- 1.1 Evaluation of players" performance during matches
- 1.2 Video analysis of skills and techniques, the importance of a third umpire
- 1.3 Assessment of Prospective Opponents

UNIT-II PREPARATION AND TRAINING (8 HOURS)

2.1 Prerequisites of preparation and training Theory of cricket training process

2.2 Lead-up games for beginners in cricket, Teaching of cricket skills - preparing a lesson plan

2.3 Development of motor components with specific reference to cricket, Specific t raining methods for different positions (slip catching, close fielding, fast bowling)2.4 Development of cricket-specific fitness components

UNIT-III ORGANIZATION (7 HOURS)

3.1 Selection of a team and conduct of a camp

3.2 Short-term and long-term planning Playfield technology - planning, construction and maintenance of the cricket field

3.3 Conduct of a Tournament, short-term and long-term planning for the organization of a competition

3.4 Report writing, photography, analysis and commentary

UNIT-IV MEASUREMENT AND EVALUATION (7 HOURS)

4.1 Fitness tests - Fitness tests- AAHPERD Youth Fitness Test, AAHPERD Health Related Fitness Test, Fleishman Physical fitness test, National Physical Efficiency Test, Indiana Motor Fitness Test

4.2 Skill tests – beep test, running between the wickets, different kinds of catches and throw

4.3 Evaluation of team performance – observation techniques, statistical techniques, scouting charts

PRACTICALS (60 HOURS)

1. General & specific warming-up

2. Training means for development of different components of physical & motor fitness

- (a) Speed
- (b) Strength
- (c) Endurance
- (d) Flexibility
- (e) Coordination
- (f) Core stability

(g) Agility

3. Game officiating

4. Advancement of different techniques, organizing intramurals in the institution, organizing camping, scouting & giving commentary, coaching lesson-5 (five) Internal lessons.

SUGGESTED READINGS

- 1. Jain, R., (2003) Play and Learn Cricket, New Delhi: K.S.K,.
- 2. Kutty, S. K., (2003) Fielding Drills in Cricket, New Delhi: K.S.K,.
- 3. Rachna, (2002) Coaching Successfully: Cricket, Delhi: Sports,.
- 4. Rachna, Jain, (2005) Play & Learn Cricket, Khel Sahitya Kendra,.
- 5. Sharma, Prahlad, (2003) Cricket, Jaipur: Shyam Prakashan,.
- 6. Boycott, G. (2010). Play Cricket the Right Way. Great Northern Books Limited, U.K.

7. Cricket (2008). Sports Skills: Cricket Fielding (Know the Game). A & C Black Publishers.

- 8. Hobls, J. (2008). The Game of Cricket As it should be played. Jepson Press, USA.
- 9. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V BSc-PE-DSE-3 (4)-301 (v):FOOTBALL

| Course title | Credits | Credit distribution of the courseLectureTutorialPractical/ Practice | | | Eligibility criteria | Pre-requisite of the course |
|---|---------|--|---|---|-------------------------|--------------------------------|
| &Code | | | | | | (if any) |
| BSc-PE-DSE- 3 (4)-301 (v): FOOTBALL | 4 | 2 | 0 | 2 | Class XII pass | NIL |

Learning Outcome: - The learner will be able to use the knowledge of Football in the ground and will have a command of the basic and advanced rules and regulations of marking the ground and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand Prerequisites of preparation and training
- 4. Marking, constructing and maintain Fields,
- 5. Officiate and Coach with an understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Roles of sports psychologists, sports

physiotherapists, and fitness trainers

- 7. Organize Competitions
- 8. Train motor components through technical preparation

9. Conduct Tests (AAHPERD Youth Fitness Test, Fleishman Physical Fitness test, Indiana motor Fitness Test Skill tests – Mcdonald test, Mitchell – SAI Football Test.

10. Evaluate of team performance Observe techniques, statistical techniques, and scouting charts.

UNIT-I RULES AND THEIR INTERPRETATIONS (8 HOURS)

1.1 Rules and Regulations in Football

1.2 Officiating- Evaluation of player's performance during matches, Video analysis of skills and techniques, Assessment of prospective opponents

- 1.2 Duties and responsibilities of officials
- 1.3 Mechanism of officiating and scoring

UNIT-II PREPARATION AND TRAINING (8 HOURS)

- 2.1 Basic skills and techniques
- Preparation, pre-contact movement, contact

- Teaching Progression
- Coaching points
- Tactical application
- Drills for skill development (any five)

2.2 The field defense - general characteristics, teaching progression, and coaching tips,

position-specific and other defense drills, Lead - up games for beginners in football,

Teaching football skill - preparing a lesson plan

2.3 Development of motor components with specific reference to football, Specific training methods for different positions

2.4 Development of football-specific fitness components

UNIT-III ORGANIZATION (7 HOURS)

- 3.1 Organization-Selection of a team and conduct of a camp
- 3.2 Playfield technology planning, construction, and maintenance of football field
- 3.3 Conduct of a tournament.
- 3.4 Short-term and long-term planning for the organization of a competition, Report writing.
- 3.5 photography, analysis, and commentary

UNIT-IV MEASUREMENT AND EVALUATION (7 HOURS)

4.1 Fitness tests - AAHPERD Youth Fitness Test, Fleishman Physical Fitness Test, Indiana motor Fitness Test

4.2 Skill tests – Mcdonald test, Mitchell – SAI Football Test.

4.3 Evaluation of team performance – observation techniques, statistical techniques, scouting charts

PRACTICAL SYLLABUS (60 HOURS)

Advanced movements with the ball

1. Kicking - basic action, requirement, classification and types of kicking

2. Receiving – with the feet, legs, inside the foot, outside and sole, thigh, stomach, abdomen and chest

- 3. Heading types of heading, surface of impact, proper movements
- 4. Dribbling and shooting- types of skills
- 5. Goal keeping receiving the ball on the floor and in the air, diving skills, punching the ball

6. Applied tactics of defense – positioning by a defender, defensive attacker, interchanging of position

7. Attacking tactics- shooting and heading at goal, place changing, special method-attack with two center

forward

8. Refining of skills

- Kicking
- Receiving
- Heading
- Dribbling
- Tackling
- Goalkeeping

9 Taking advantage of offside rule - attack and defense 10 Match officiating

- Deferree
- Referee
- Linesmen
- Table officials
- Play field preparation guide/organizer

SUGGESTED READINGS

- 1. N. Kumar, (2003) Play and Learn Football, New Delhi: K.S.K,.
- 2. Sharma, O.P.,(2 001) Teaching and Coaching –Football, Delhi: Khel S.K.,.
- 3. Thani, Yograj, (2002) Coaching Successfully Football, New Delhi: K.S.K,.
- 4. Carling, C., Williams, M. and Reilling, T. (2006). Handbook of Soccer MatchAnalysis:
- A Systematic Approach to Improving Performance. Routledge Publishers, USA.
- 5. Long, H. and Czarnecki, J. (2007). Football for Dummies. For Dummies Publisher, USA.Developing Strength, Speed and Endurance. Routledge Publisher, USA.
- 6. Reilly, T., and J.C.D. Arau (2008). Science and Football V: The Proceedings of the5th World Congress on Sports Science and Football, Volume 5.
- 7. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V BSc-PE-DSE-3 (4)-301 (vi): GYMNASTICS

| Course title & Code | Credits | Credit distribution of the course | | | Eligibility criteria | Prerequisite of the |
|--|---------|---|---|---|-------------------------|------------------------|
| | | Lecture Tutorial Practical/ Practice | | | | course (If any) |
| BSc-PE-DSE-3 (4)- 301 (vi): GYMNASTICS | 4 | 2 | 0 | 2 | Class XII pass | NIL |

Learning Outcome: - The learner will be able to use the knowledge of Gymnastics on the ground and have a command of the basic and advanced rules and regulations and conduct a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand Prerequisites of preparation and training
- 4. Marking, constructing, and maintain court,
- 5. Officiate and Coach with an understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors

(high-performance sportspersons)

- 8. Organize Competitions
- 9. Train motor components through technical preparation
- 10. Support techniques and their methods of Security
- 11. Understand Rhythmic gymnastics and Trampoline gymnastics

THEORY SYLLABUS (30 HOURS)

UNIT-I PRE-REQUISITES OF A GOOD GYMNASTICS COACH AND A GOOD GYMNAST (8 HOURS)

- 1.1 Gymnastics coach
- a. Qualifications, qualities, and abilities
- b. Personality profiles of a gymnastics coach

1.2 Gymnast

a. Anthropometrical demands (physique, body composition, somatotypes of men and women gymnasts)

b. Conditional and coordinative abilities

c. Psycho-social abilities

1.3 Knowing gymnastics terminology

a. Methods of naming various gymnastics terms

b. Names and definitions of some basic positions and movements

c. Principles of teaching, coaching and training of gymnastics movements on apparatus

UNIT-II DEVELOPMENT, MEASUREMENT, AND EVALUATION OF motor ABILITIES (8 HOURS)

2.1 Role of various motor abilities in gymnastics

2.2 Means and methods of developing general motor abilities and their evaluation

2.3 Means and methods of developing specific motor abilities and their evaluation

- 2.4 Schedule of Training and Planning For Competition Training schedules
- Daily schedules
- Weekly schedules
- Monthly schedules

2.5 Planning for Competition

- Meaning and concept
- Preparation for the competition schedule
- Order of events
- Sequence of gymnast

UNIT-III SAFETY MEASURES IN GYMNASTICS (7 HOURS)

- 3.1 Supporting techniques and their methods
- 3.2 Security means and methods
- 3.3 Self-security methods
- 3.4 Causes, prevention, and remedies of injuries in gymnastics

UNIT-IV THEORY OF VARIOUS FORMS OF GYMNASTICS (7 HOURS)

4.1 Rhythmic gymnastics: (i) basic exercises (throw, catch, jumps, turns, waves & balance); and (ii) a combination

4.2 Physical fitness in gymnastics: (i) through free hand exercises; (ii) through apparatus i.e., medicine ball, skipping rope, wall bars, gymnastics bench, free weights, dumbbells, multi gym, rope climbing, modern fitness equipment (treadmill, elliptical upright and recumbent bikes etc.)

4.3 Trampoline gymnastics: (i) jumps, (ii) somersaults (forward), (iii) twists/turns on small

PRACTICALS (60 HOURS)

1. Rhythmic gymnastics: (i) basic exercises (throw, catch, jumps, turns, waves & balance); and (ii) combination

2. Physical fitness in gymnastics: (i) Free hand exercises; (ii) Use of apparatus - Medicine ball, skipping rope, wall bars, gymnastics bench, free weights, dumbbells, multi gym, rope climbing, modern fitness equipment (treadmill, elliptical upright and recumbent bikes, etc.)

3. Trampoline gymnastics: (i) jumps, (ii) somersaults (forward), (iii) twists/turns on small trampoline

4. Visit to the gymnastics centre

SUGGESTED READINGS

- 1. Code of Points Trampoline Gymnastics, Federation Int. De Gymnastics, 2005.
- 2. Federation Internationale Gymnastics, Federation Int. De Gymnastics, 2006.
- 3. Jain, R., (2005) Play and Learn Gymnastics, Khel Sahitya Kendra,.
- 4. Jain, R., (2003) Play and Learn Gymnastics, New Delhi: Khel Sahitya Kendra,.
- 5. Brown (2009). How to Improve at Gymnastics. Crab tree Publishing Co., USA.
- 6. Stick land, L.R. (2008). Gender Gymnastics. Trans Pacific Press, Japan.
- 7. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V BSc-PE-DSE-3 (4)-301 (vii):HANDBALL

| Course title & | Credits | Credit distribution of the courseLecturTutoriaPracticale1/ Practice | | | Eligibility criteria | Pre- requisite of |
|--|---------|--|---|---|-------------------------|------------------------|
| Code | | | | | | The course (if any) |
| BSc-PE-DSE-3 (4)-301 (vii): HANDBALL | 4 | 2 | 0 | 2 | Class XII pass | NIL |

Learning Outcome: - The learner will be able to use the knowledge of Handball on the ground and will have a command of the basic and advanced rules and regulations of marking the ground and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1.Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand Prerequisites of preparation and training
- 4. Marking, construct and maintain handball court,
- 5.Officiate and Coach with understanding of Duties/responsibilities
- 6.Identifies Protocols of referees, judges, umpires, Role of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high performance sportspersons)
- 8.Organize Competitions
- 9. Train motor components through technical preparation
- Conduct Tests (AAHPERD Youth Fitness Test, AAHPERD Health Related Fitness Test, National Physical Efficiency Test, Indiana motor Fitness Test Skill tests – Cornish Handball Test
- 11. Evaluate of team performance-observes techniques, statistical techniques and scouting charts.

THEORY SYLLABUS (30 HOURS)

UNIT-I RULES AND THEIR INTERPRETATIONS (8 HOURS)

1.1 Latest rules and their Interpretations

1.2 Match Analysis-Evaluation of players' performance during matches, Video analysis of skills and techniques,

1.3 Assessment of Prospective Opponents.

1.4 Duties and responsibilities of officials

1.5 Mechanism of officiating and scoring

UNIT-II PREPARATION AND TRAINING (8 HOURS)

2.1 Prerequisites of preparation and training

• Theory of handball training process

2.2 Basic Skills And Techniques

- Catching chest level, head and reaching height, side, below waist, one hand, in air
- Passing straight shoot pass (with and without blocking), underhand, wrist,

push and bounce

• Shooting (throw on goal) - straight shot with variation, jump shot with variation, jump shot long (near shot zone)

- Jump shot (long shot zone), penalty shot (7 m.), jump fall shot, side straight
- shot, back flick, lob
- Dribbling high and low
- Feints a system of feints, play round and off, offensive and defensive
- Goalkeeper
- Preparation, pre-contact movement, contact
- Teaching Progression
- Coaching points
- Tactical application
- Drills for skill development (Any Five)

2.3 The Court Defense – general characteristics, teaching progression and coaching tips, position-specific and other defense drills, Lead - games for beginners in handball,

Teaching of handball skills - preparing a lesson plan.

2.4 Development of motor components with specific reference to handball, Specific training methods for different positions

2.5 Development of handball-specific fitness components

UNIT-III ORGANIZATION (8 HOURS)

3.1 Selection of a team and conduct of a camp.

3.2 Playfield technology planning, construction and maintenance of the handball court,

- 3.3 Conduct of a tournament,
- 3.4 Short-term and long-term planning for organization of a competition,
- 3.5 Report writing, photography, analysis, and commentary

UNIT-IV MEASUREMENT AND EVALUATION (8 HOURS)

4.1 Fitness tests - Fitness tests- AAHPERD Youth Fitness Test, AAHPERD Health Related

Fitness Test, Fleishman Physical fitness test, National Physical Efficiency Test, Indiana motor Fitness Test

4.2 Skill tests – Cornish Handball Test

4.3 Evaluation of team performance – observation techniques, statistical techniques, scouting Charts

PRACTICALSYLLABUS (60 HOURS)

- 1.Learning and demonstrating various skills/ techniques of sports.
- 2.Learning to demonstrate various drills for perfecting a skill
- 3.Learning and demonstrating to complete the process of scoring/judgment.

SUGGESTED READINGS

- 1. Jain, D., Play & Learn Handball, New Delhi, Khel Sahitya Kendra, 2003.
- 2.Jain D (2003). Play & Learn Handball. Khel Sahitya Kendra. New Delhi.
- **3.**Kleinman, I. (2009). Complete Physical Education Plans. 2nd Ed. Human Kinetics, USA.
- 4.Surhone, L.M. et.al, (2010). Team Handball. Betascript Publishing, USA
- 5. Phillips, B.E. (2009). Fundamental Handball. Kessinger Publishers, USA.
- 6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V BSc-PE-DSE-3 (4)-301(viii):HOCKEY

| Course title & Code | Credits | Credit dis | tribution o | f the course | Eligibility criteria | Prerequisite of the course |
|---|---------|------------|-------------|------------------------|-------------------------|----------------------------|
| | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| BSc-PE-DSE- 3(4)301(viii): HOCKEY | 4 | 2 | 0 | 2 | Class XII pass | NIL |

Learning Outcome: - The learner will be able to use the knowledge of Hockey on the ground and will have a command of the basic and advanced rules and regulations of marking the ground and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand Prerequisites of preparation and training
- 4. Marking, construct and maintain Hockey court,
- 5. Officiate and Coach with understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Role of sports

psychologists, sports physiotherapists, and fitness trainers

7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high performance sportspersons)

- 8. Organize Competitions
- 9. Train motor components through technical preparation

10. Conducts Tests (AAHPERD Youth Fitness Test, AAHPER Health Related Fitness Test, Fleishman Physical Fitness Test, National Physical Efficiency Test, Indiana motor Fitness Test Skill Tests – Schmitha's French Field Test, Freidel Field Test.

11. Evaluate of team performance- observe techniques, statistical techniques and scouting charts.

THEORY SYLLABUS (30 HOURS)

UNIT-I RULES AND THEIR INTERPRETATIONS (8 HOURS)

1.1 Latest rules, and their interpretations

1.2 Duties and responsibilities of officials

1.3 Mechanism of officiating and scoring

1.4 Match Analysis-Evaluation of player performance during matches

1.5 Video - analysis of skills and techniques, Assessment of prospective opponents

UNIT-II PREPARATION AND TRAINING (8 HOURS)

2.1 Prerequisites of preparation and training

2.2 Basic skills and techniques

- Hitting
- Passing
- Dribbling
- Scoop
- Bully
- Grip
- Flicking
- Goalkeeping

 $\hfill\square$ Preparation, pre-contact movement, contact

- □ Teaching Progression
- □ Coaching Points
- □ Tactical application
- □ Drills for skill development (any five)

2.3 The Field Defense – general characteristics, teaching progression and coaching tips, position-specific and other defense drills, Lead - up games for

beginners, Teaching of hockey skill - preparing a lesson plan.

2.4 Development of motor components with specific reference to hockey,

Specific training methods for different positions

2.5 Development of hockey-specific fitness components

UNIT-III ORGANIZATION (7 HOURS)

3.1 Organization-Selection of a team and conduct of a camp,

3.2 Playfield technology - planning, construction, and maintenance of a hockey field,

- 3.3 Conduct of a tournament,
- 3.4 Short-term and long-term planning for the content of a competition,
- 3.5 Report writing, photography, analysis, and commentary

UNIT-IV MEASUREMENT AND EVALUATION (7 HOURS)

4.1 Fitness tests - Fitness tests- AAHPERD Youth Fitness Test, AAHPERD Health Related Fitness Test, Fleishman Physical fitness test, National Physical Efficiency Test, Indiana Motor Fitness Test

4.2 Skill Tests – Schmithal's French Field Test, Freidel Field Test.

4.3 Evaluation of team performance – observation techniques, statistical techniques, scouting charts

PRACTICALSYLLABUS (60 HOURS)

- 1. Techniques of Fundamental Skills
- 2. Beating an opponent or dodging
- 3. Ball passing and tackling
- 4. Applied tactics of defense positioning by a defender, defensive attacker, interchanging of position
- 5. Attacking tactics Creating Gaps, mobility
- 6. Refining of skills
- 7. Goal keeping
- 8. Match officiating: Umpire signals
- 9. Playfield Marking

SUGGESTED READINGS

- Umpires. India, International Hockey Federation, 2003.
- Jain, D.,(2003) Hockey Skills & Rules New Delhi, khel Sahitya Kendra,.

• Narang, P., (2003) Play & Learn Hockey, Khel Sahitya Kendra, New Delhi,

• Thani Yograj., Coaching Successfully Hockey, Delhi, Sports Publication, 2002.

• Walter, R. and Johnson, M. (2009). Hockey Plays and Strategies. Human Kinetics, USA.

• Pecknold, R. and Foeste, A. (2009). Hockey: Essential Skills. McGraw Hills, USA.

• Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V BSc-PE-DSE-3 (4)-301 (ix):JUDO

| Course title &Code | Credits | Credit distribution of the course | | | Eligibility criteria | Pre- requisite of the course (if any) |
|--|---------|-----------------------------------|--------------|-------------------------|-------------------------|--|
| | | Lectur e | Tutoria l | Practical / Practice | | |
| BSc-PE-DSE- 3 (4)-301 (ix): JUDO | 4 | 2 | 0 | 2 | ClassXII pass | NIL |

Learning Outcome: - The learner will be able to use the knowledge of Judo and will have a command on the basic and advance rules and regulations of Judo and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand Prerequisites of preparation and training
- 4. Marking, constructing and maintain Field/court,
- 5. Officiate and Coach with an understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 8. Apply Safety measures and prevent injuries
- 9. Manage injuries' Causes
- 10. Rehabilitate and massage athletes
- 11. Organize Competitions
- 12. Identify classification and components of nutrition and energy requirements of athletes in specified events
- 13. Train motor components through technical preparation
- 14. Conduct Tests (AAHPERD Youth Fitness Test, AAHPHER Health Related Fitness Test, National Physical Efficiency Test, Indiana Motor Fitness Test)
- 15. Observe techniques, statistical techniques and scouting charts.

THEORY SYLLABUS (30 HOURS)

UNIT-I TECHNICAL PREPARATION FOR JUDO (8 HOURS)

1.1 Required motor abilities

1.2 Technical preparation and grading system

1.3 Competition area, equipment, etc.

1.4 Physical, physiological and psychological preparation

1.5 Officiating and Coaching-Qualifications, qualities and Responsibilities of a Coach,

philosophy of coaching, Qualifications and responsibilities/functions of technical

officials,

UNIT-II SYSTEMATIZATION OF TRAINING PROCESS AND SAFETY MEASURES (8 HOURS)

2.1 Systematizing training process for players – warming up, cooling-down, supplementary

exercises, basic skills, weight training, circuit-training

2.2 Training for beginners, Training for intermediate players, Training for high performers

2.3 Prevention of injuries Causes and remedies of injuries in judo and safety measures

UNIT-III DIET, NUTRITION AND SPORTS PERFORMANCE (7 HOURS)

3.1 Meaning, definition, classification, and components of nutrition

3.2 Energy requirements of Judokas

3.3 Nutritional guidelines for Judokas: pre-, during, and post competition phases

UNIT-IV MEASUREMENT AND EVALUATION (7 HOURS)

4.1 Fitness tests - Fitness tests- AAHPERD Youth Fitness Test, AAHPERD Health

Related Fitness Test, Fleishman Physical fitness test, National Physical

Efficiency

Test, Indiana Motor Fitness Test

1.2 Skill/Playing Ability Tests for judo players –

PRACTICAL (60 HOURS)

1. Warming-up (general and specific), cooling down, supplementary and stretching exercises

- 2. Demonstration of judo techniques
- 3. Variations and combination of judo techniques
- 4. Training in fundamentals of judo
- 5. Visit to a Judo Centre
- 6. Planning for competitions
- 7. Organization of a competition/seminar/workshop/clinic

SUGGESTED READINGS

1. Harrison, E.J., (2002) Coaching Successfully Judo, Delhi: Sports,.

2. Jain, D., (2003) Play and Learn Judo, New Delhi: Khel Sahitya Kendra,.

3. Putin, V, Shestakov, V. ad evitsky, A.(2004). Judo: History, Theory and Practice. Blue Snake Books, Moscow.

4. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V BSc-PE-DSE-3 (4)-301 (x):KABADDI

| Course | Credits | | | | Eligibility | Prerequisite |
|--------------|---------|---------|----------------------------|----------|-------------|---------------|
| title | | | course | | criteria | of the course |
| &Code | | Lecture | Lecture Tutorial Practical | | | (if any) |
| | | | / Practice | | | |
| BSc-PE-DSE-3 | 4 | 2 | 0 | 2 | Class | NIL |
| (4)-301 (x): | | | | XII pass | | |
| KABADDI | | | | | | |

Learning Objective:-The students will acquire knowledge and understanding of a specific sport in which an individual wishes to excel. The learner will be able to use the knowledge of Kabaddi in the court and will have a command of the basic and advanced rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand Prerequisites of preparation and training
- 4. Marking, constructing and maintaining Field/court,
- 5. Officiate and Coach with an understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 8. Apply Safety measures and prevent injuries
- 9. Manage injuries' Causes
- 10. Rehabilitate and massage athletes
- 11. Organize Competitions
- 12. Identify classification and components of nutrition and energy requirements of athletes in specified events
- 13. Train motor components through technical preparation

THEORY SYLLABUS (30 HOURS)

UNIT-I Skill, Tactics & Technical Aspects (8 HOURS)

- Advance defensive skills in kabaddi
- Advance offensive skills in kabaddi
 - Concept of tactics and strategy
 - Offensive and defensive tactics in kabaddi

UNIT-II Performance Dimensions (8 HOURS)

- Anatomical Consideration in a kabaddi.
- Physiological basis to performance in a kabaddi.
- Bio-mechanical analysis of skills/techniques.
- Psychological concept in kabaddi.
- Sociological concept in kabaddi.

UNIT-III Athlete Care & Rehabilitation in Kabaddi (7 HOURS)

- Preventive and safety measures in kabaddi
- Sports injuries in kabaddi
- P.R.I.C.E. Injury Treatment Principle
- Rehabilitation Methods

UNIT-IV Organization & Officials (7 HOURS)

·Selection & conduct of coaching Camps

Officials' Qualification, duties & Knowledge of Score sheet

·Organization of a Kabaddi tournament

•Report Writing on the Kabaddi Tournament.

Practical Syllabus (60 HOURS)

1.Skills &its developing exercises (Drills)

2.Officiating in a Kabaddi Match

3.Scoring in a Kabaddi Match

4.Demonstration and practice of Tactical Pattern

SUGGESTED READINGS

- 1. Kumar, Dharmander. (2018). Kabaddi and It's Playing Techniques. Writers Choice, New Delhi.
- 2. Kumar, Dharmander. (2023). Kabaddi Dynamics: Skill, Technics, Tactics & Science, Khel Sahitya Kendra, New Delhi.
- 3. Mishra, S.C. (2007). Teach Yourself Kabaddi. Sports Publications, New Delhi.
- 4. Syal, M. (2004). Kabaddi Teaching. Prerna Parkashan, New Delhi.
- 5. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V

BSc-PE-DSE-3 (4)-301(xi):KHO-KHO

| Course title &Code | Credits | Credit distribution of the course | | | Eligibility criteria | Prerequisite of the course |
|---------------------------------------|---------|-----------------------------------|----------|------------------------|-------------------------|-------------------------------|
| | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| BSc-PE-DSE-3 (4)- 301(xi): KHO-KHO | 4 | 2 | 0 | 2 | Class XIIpa ss | NIL |

Learning Outcome: - The learner will be able to use the knowledge of Kho-Kho in the court and will have a command on the basic and advanced rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand Prerequisites of preparation and training
- 4. Marking, construct and maintain Field/court,
- 5. Officiate and Coach with understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Role of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high performance sportspersons)
- 8. Apply Safety measures and prevent of injuries
- 9. Manage injuries' Causes
- 10. Rehabilitate and massage athletes
- 11. Organize Competitions
- 12. Identify classification and components of nutrition, Energy requirements of athletes in specified events
- 13. Train motor components through technical preparation
- 14. Conduct Tests (AAHPERD Youth Fitness Test, AAHPHED Health Related Fitness Test, Fleishman Physical Fitness Test, National Physical Efficiency Test, Indiana motor Fitness Test Skill Tests.
- 15. Evaluation of team performance- observe techniques, statistical techniques and scouting charts.

THEORY SYLLABUS (30 HOURS)

UNIT-I RULES AND THEIR INTERPRETATIONS (8 HOURS)

2.1 Latest Rules, and their Interpretations

2.2 Match analysis- Evaluation of player's performance during matches, Video analysis of skills and techniques, Assessment of prospective opponents

UNIT-II PREPARATION AND TRAINING (8 HOURS)

2.1 Prerequisites of preparation and training

- o Theory of Kho-khoTraining Process
- 2.2 Basic skills and techniques
- o Running chain game single chain, double chain 3-3-2
- o Feint
- o Dosing
- o Oval
- o Chasing pole dive sitting, running, fake, and pole dive
- o Sitting and block
- o Dive air dive, sitting dive, flat dive

2.3 Preparation, pre-contact movement, contact, Teaching progression, Coaching points,

Tactical application, Drills for skill development (any five), The court defense -

general characteristics, teaching progression and coaching tips, position-specific and other defense drills, Lead - up games for beginners in Kho-kho, Teaching of Kho-kho skill - preparing a lesson plan

2.4 Development of motor components with specific reference to Kho-kho, Specific training methods for different positions

2.5 Development of Kho-kho-specific fitness components

UNIT-III ORGANIZATION (7 HOURS)

3.1 Organization and Constitution of KKFI and Affiliated Units, Organization- Selection of a team and conduct of a camp,

3.2 Playfield technology planning, construction and maintenance of Kho-Kho Court,

3.3 Conduct of a tournament,

3.4 Short-term and long-term planning for the organization of a competition,

3.5 Report writing, photography, analysis and commentary

UNIT-IV MEASUREMENT AND EVALUATION (7 HOURS)

4.1 Fitness tests - AAHPERD Youth Fitness Test, Barrow General Motor Ability Test.

4.2 Skill tests

4.3 Evaluation of team performance – observation techniques, statistical techniques, scouting charts

Practical (60 HOURS)

- 1.Skills & its developing exercises (Drills)
- 2.Officiating in a Kho-kho Match
- 3.Scoring in a Kho-khoMatch
- 4.Demonstration and practice of Tactical Pattern
- 5. Measurement of Sport-specific skill tests

SUGGESTED READING

- 1. Chakrabarty, G., Kho Kho Aveloken, Delhi, Khel Sahitya Kendra, 2002.
- 2. Panday, L., Kho Kho Sarvaswa, New Delhi Metropolitan, 1982.\
- 3. Vanaik A. (2005). Playfield Manual, Friends Publication. New Delhi
- 4. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

Semester-V

BSc-PE-DSE-3 (4)-301(xii):VOLLEYBALL

| Course title & Code | Credits | Credit dis course | tribution of | the | Eligibility criteria | Pre-requisite of the course |
|---|---------|----------------------|--------------|------------------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| BSc-PE-DSE-3 (4)-301(xii): VOLLEYBALL | 4 | 2 | 0 | 2 | Class XII pass | NIL |

Learning Outcome: - The learner will be able to use the knowledge of Volleyball in the court and will have a command on the basic and advanced rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand the Prerequisites of preparation and training
- 4. Marking, constructing, and maintain Field/court,
- 5. Officiate and Coach with an understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 8. Apply Safety measures and prevent injuries
- 9. Manage injuries' Causes
- 10. Rehabilitate and massage athletes
- 11. Organize Competitions
- 12. Identify classification and components of nutrition and energy requirements of athletes in specified events
- 13. Train motor components through technical preparation
- 14. Conduct Tests (AAHPERD Youth Fitness Test, Indiana Motor Fitness Test, Philips JCR Test Skill Tests AAHPERD, Russell-Lange, Brady's Volleyball Test
- 15. Evaluation of team performance- observes techniques, statistical techniques and scouting charts.

THEORY SYLLABUS (30 HOURS)

UNIT-I RULES AND THEIR INTERPRETATIONS (8 HOURS)

1.1 Latest rules, and their interpretations

1.2 Duties and responsibilities of officials

1.3 Mechanism of officiating and scoring

1.4 Match analysis- Evaluation of player's performance during matches, Video analysis of skills and techniques,

1.5 Assessment of Prospective Opponents

UNIT-II PREPARATION AND TRAINING (8 HOURS)

2.1 Prerequisites of preparation and training

- Theory of volleyball training process
- General and specific warming up and cooling down (specific exercises for volleyball)
- Principles of warming up and cooling down and their effects
- 2.2 Basic skills and techniques
- o The serve underhand, tennis, jump and serve overhead float
- o Forearm passing
- o Overhead Passing
- o Spiking/attack
- o Blocking
- □ Preparation, pre-contact movement, contact
- □ Teaching progression
- □ Coaching points
- □ Tactical application
- □ Drills for skill development (any five)

2.3 The court defense – general characteristics, teaching progression, and coaching tips, position-specific and other defense drills, Lead - games for beginners in volleyball,

Teaching volleyball skill - preparing a lesson plan

2.4 Development of motor components with specific reference to volleyball, Specific training

methods for different positions

2.5 Development of volleyball-specific fitness components

UNIT-III ORGANIZATION (7 HOURS)

3.1 Organization- Selection of a team and conduct of a camp,

3.2 Playfield technology - planning, construction, and maintenance of the Volleyball

court

3.3 Conduct of a tournament,

- 3.4 Short-term and long-term planning for the organization of a competition,
- 3.5 Report writing, photography, analysis, and commentary

UNIT-IV MEASUREMENT AND EVALUATION (7 HOURS)

4.1 Fitness tests - AAHPERD Youth Fitness Test, Indiana motor Fitness Test, Philips JCR Test

4.2 Skill Tests – AAHPERD, Russell-Lange, Brady's Volleyball Test

4.3 Evaluation of team performance – observation techniques, statistical techniques, scouting charts.

Practical Syllabus (60 HOURS)

- 1.Skills & its developing exercises (Drills)
- 2.Officiating in a Volleyball Match
- 3.Scoring in a Volleyball Match
- 4.Demonstration and practice of Tactical Pattern
- 5. Sport-specific skill tests

SUGGESTED READING

- The National Alliance for Youth. Sports (2009). Coaching Volleyball For Dummies Publishers, USA.
- Volleyball, USA (2009). Volleyball: Systems and Strategies. Human Kinetics, USA.
- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- Kenny, B. and Gregory, C. (2006). Volleyball: Steps to Success. Human Kinetics, USA.
- Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi.

Semester-V

BSc-PE-DSE-3 (4)-301(xiii):YOGA

| Course title & Code | Credits | Credit dist | ibution of th | ie course | Eligibility criteria | Prerequisite of the course |
|--|---------|-------------|---------------|------------------------|-------------------------|-------------------------------|
| | | Lecture | Tutorial | Practical/ Practice | | (if any) |
| B Sc-PE-DSE- 3(4) – 301 (xii): YOGA | 4 | 2 | 0 | 2 | Class XII pass | NIL |

Learning objective: - The learner will be able to use the knowledge of Yoga in real life and will have a command on the basic and advanced rules and regulations of Yoga and conduct a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Understand yoga its limitations and misconceptions
- 2. Identify the importance of yoga in education and other fields Rules and regulations for yoga championships: State, national, international, SGFI, AIU.
- 3. Understand the Pre-Vedic and Vedic period
- 4. Organize -Select teams and conduct camps
- 5. Officiate and Coach with an understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, umpires, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 8. Apply Safety measures and prevent injuries
- 9. Manage injuries' Causes
- 10. Identify classification and components of nutrition and energy requirements in specified events

THEORY SYLLABUS (30 HOURS)

UNIT-I YOGA EDUCATION: (8 HOURS)

1.1 Meaning, definition, and scope of yoga, limitations and misconceptions, the importance of yoga in education and other fields

1.2 Pre-vedic and Vedic period; upanishad, sutra period, patanjali yoga sutra; hatha yoga tantra

UNIT-II RULES AND THEIR INTERPRETATIONS (8 HOURS)

2.1 Rules and regulations for yoga championships: State, national, international, SGFI, AIU.

2.2 Officiating and coaching - Qualifications, qualities, and responsibilities of a coach, Duties/responsibilities of technical official, Scoring system and judgment criteria, Protocols for referees, judges and officials

UNIT-III ORGANIZATION OF YOGA COMPETITION: (7 HOURS)

- 3.1 Structure and organization of yoga competition
- 3.2 Preparation, execution, and closing of the competition
- 3.3 Protocols and Ceremonies

UNIT-IV NUTRITION IN YOGA (7 HOURS)

4.1 Meaning, definition, classification, and components of nutrition, nutrients

4.2 Yogic diet

4.3 PRATHYARA, VEGETARIAN DIET

PRACTICALS (60 HOURS)

- 1. Visit to yoga center
- 2. Planning for a Yoga competition
- 3. Organization of a Yoga competition
- 4. Project on research in Yoga
- 5. Officiating in Yoga competitions

SUGGESTED READINGS

- Kaminoff, L. et al (2007). Yoga Anatomy. Human Kinetics, USA.
- Kirk, M. (2005). The Hatha Yoga Illustrated. Human Kinetics, USA.

• Sharma JP and Ganesh S(2007). Yog Kala Ek Prichya. Friends Publication. New Delhi

• Sharma J. P. (2007). Manav Jeevan evam yoga. Friends Publication. New Delhi.

• Sharma Jai Prakash and Rathore Bhupender Singh (2007). Yoga Ke Tatva. Friends Publication. Delhi

• Mukerji, A.P. (2010). The Doctrine and Practice of Yoga. General Books, LLC, New Delhi.

• Norton, W.W. (2010). Yoga for Osteoporosis: The Complete Guide. W.W. Norton & Company, USA.

Semester V

BSc-PE-DSE-3 (4)-301 (xiv): SWIMMING

| Course title & | Cre | Credit distribution of the | | | Eligibility | Pre- |
|-----------------|------|----------------------------|-----------------------------|----------|-------------|--------------|
| Code | dits | course | | | criteria | requisite of |
| | | Lecture | Lecture Tutorial Practical/ | | | the course |
| | | | Practice | | | (if any) |
| BSc-PE-DSE- | 4 | 2 | 0 | 2 | Class | NIL |
| 3(4)-301 (xiv): | | | | XII pass | | |
| SWIMMING | | | | | | |

Learning Outcome: - The learner will be able to use swimming knowledge and have a command of the basic and advanced skills and will have knowledge of rules and regulations for competitions and conducting competition.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Set pool profile for competitions
- 2. Officiate and Coach with an understanding of Duties/responsibilities
- 3. Identifies Protocols of referees, judges. Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 4. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 5. Apply Safety measures and prevent injuries
- 6. Manage injuries' Causes
- 7. Rehabilitate and massage athletes
- 8. Organize Competitions
- 9. Identify classification and components of nutrition and energy requirements of athletes in specified events
- 10. Train motor components through technical preparation

THEORY SYLLABUS (30 HOURS)

UNIT-I TECHNICAL PREPARATION FOR SWIMMING (8 HOURS)

- 1.1 Training of motor components required in the game of swimming
- 1.2 Technical preparation reflexes, perceptual sense, neuro-muscular coordination
- 1.3 Construction and maintenance of swimming pools, equipment etc.
- 1.4 Physical, physiological, and Psychological preparation

1.5 Officiating and Coaching -Duties/responsibilities, qualifications, and qualities of a coach, Philosophy of coaching, Qualifications, and responsibilities/functions of

technical officials, Protocols of referees, judges1.6 Role of sports psychologists, sports physiotherapists and fitness trainers

UNIT-II SYSTEMATIZATION OF TRAINING PROCESS (8 HOURS)

2.1 Systematizing training process for swimming players – general warming-up, specific warming-up and cooling-down

2.2 Supplementary exercises, basic skills in swimming

2.3 Training for beginners, Training for intermediate players - advanced sportspersons, Training for seniors - high-performance sportspersons.

2.4 Prevention of injuries and Safety measures.

UNIT-III ORGANISATION OF THE COMPETITION (7 HOURS)

- 3.1 Planning for the Competition
- 3.2 Selection of men, material and management
- 3.3 Concluding the competition submission of accounts, preparing a report
- 3.4 Protocols and Ceremonies

UNIT-IV DIET, NUTRITION AND SPORTS PERFORMANCE (7 HOURS)

4.1 Meaning, definition, classification, and components of nutrition

4.2 Energy requirements of swimmers

4.3 Nutritional requirements of swimming players: pre-, during, and post-competition phases

PRACTICALS (60 HOURS)

- 1. Demonstration of skills
- 2. Training for advanced skills for competitions
- 3. Shadow practice and pressure training, planning for competition,
- 4, Organization of competition/seminar/workshop.

SUGGESTED READINGS

- David J., Mathur M. (1994). "How to learn swimming in 30 days" UBS Publishers, New Delhi, India.
- Jain. R. (2003). "Play and Learn Swimming" Khel Sahitya Kendra, New Delhi, India

- Jain. D. (2003). "Swimming Skills & Rules" Khel Sahitya Kendra, New Delhi, India
- 4. Hardy, Colin (1987) "Handbook for the Teacher Of Swimming" Pelham books ltd., London (U.K)
- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 6. Thomas, David G., (2005). "Swimming STEPS TO SUCCESS" Human Kinetics, U.S.A
- Singh, Hardayal. (2019). Science of Sports Training. DVS Publication, N. Delhi.
- 8. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

Semester-V BSc-PE-DSE-3 (4)-301 (xv): WRESTLING

| Course title &Code | Credit s | Credit dist | Credit distribution of the course | | | Pre- requisite of the course (if any) |
|--|-------------|-------------|-----------------------------------|-------------------------|-------------------|--|
| | | Lecture | Tutorial | Practical / Practice | | 、 、 |
| BSc-PE-DSE-3 (4)-301 (xv): WRESTLING | 4 | 2 | 0 | 2 | Class XII pass | NIL |

Learning Outcome: - The learner will be able to use the knowledge of Wrestling and will have a command on the basic and advance rules and regulations of Wrestling and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Organize -Select teams and conduct camps
- 2. Analyze Performance and Videos
- 3. Understand Prerequisites of preparation and training
- 4. Marking, constructing and maintain Field/court,
- 5. Officiate and Coach with an understanding of Duties/responsibilities
- 6. Identifies Protocols of referees, judges, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 7. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 8. Apply Safety measures and prevent injuries
- 9. Manage injuries' Causes
- 10. Rehabilitate and massage athletes
- 11. Organize Competitions
- 12. Identify classification and components of nutrition and energy requirements of athletes in specified events
- 13. Train motor components through technical preparation
- 14. Conduct related physical fitness tests

THEORY SYLLABUS (30 HOURS)

UNIT-I TECHNICAL PREPARATION FOR WRESTLING (8 HOURS)

1.1 Required motor abilities for wrestlers

1.2 Technical preparation, Competition area, equipment, etc

1.3. Physical, physiological and psychological preparation

1.4 Officiating and Coaching-Qualifications, qualities and Responsibilities of a Coach, philosophy of coaching,

1.5 Qualifications and responsibilities/functions of technical officials

UNIT-II SYSTEMATIZATION OF TRAINING PROCESS AND SAFETY MEASURES (8 HOURS)

2.1 Systematizing training process for players – warming up, cooling-down, supplementary exercises, basic skills in Wrestling

2.2 Training for beginners, Training for intermediate players, Training for high performers

2.3 Prevention of injuries Causes and remedies of injuries in Wrestling and safety measures

UNIT-III DIET, NUTRITION AND SPORTS PERFORMANCE (7 HOURS)

- 3.1 Meaning, definition, classification, and components of nutrition
- 3.2 Energy requirements of Wrestlers
- 3.3 Nutritional guidelines for Judokas: pre-, during, and post competition phases

UNIT-IV MEASUREMENT AND EVALUATION (7 HOURS)

4.1 Fitness tests for Wrestlers

4.2 Skill/Playing Ability Tests for Wrestling players

PRACTICAL (60 HOURS)

1. Warming-up (general and specific), cooling down, supplementary and stretching exercises

- 2. Demonstration of Wrestling techniques
- 3. Training in fundamentals of Wrestling
- 4. Visit to a Wrestling Centre
- 5. Planning for competitions
- 6. Organization of a competition/seminar/workshop/clinic

SUGGESTED READINGS

- 1. Gable, D. (1999) "Coaching Wrestling Succefully" Human Kinetics, U.S.A
- Camaione D. & Tillman K. (1980) "Teaching & Coaching Wrestling A Scientific Approach" John Wiley & Sons. Inc., U.S.A.
- Kumar N. (2005) "Play & Learn Wrestling" Khel Sahitya Kendra, New Delhi, India.
- Patwardhan G. (2002) "Coaching Succefully Wrestling" Sports Publication, Delhi.
- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

Semester V

BSc-PE-DSE-3 (4)-301 (xvi): TABLE TENNIS

| Course title & | Cre | Credit distribution of the | | | Eligibility | Pre- |
|-----------------|------|----------------------------|-----------------------------|--|-------------|--------------|
| Code | dits | course | | | criteria | requisite of |
| | | Lecture | Lecture Tutorial Practical/ | | | the course |
| | | | Practice | | | (if any) |
| BSc-PE-DSE- | 4 | 2 | 2 0 2 | | Class | NIL |
| 3(4)-301 (xvi): | | | | | XII pass | |
| TABLE TENNIS | | | | | | |

Learning Outcome: - The learner will be able to use Table Tennis knowledge on the ground and have a command of the basic and advanced rules and regulations and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Marking, constructing and maintaining Table Tennis Court
- 2. Officiate and Coach with an understanding of Duties/responsibilities
- 3. Identifies Protocols of referees, judges, Roles of sports psychologists, sports physiotherapists, and fitness trainers
- 4. Train children, beginners, intermediate players (advanced sportspersons) seniors (high-performance sportspersons)
- 5. Apply Safety measures and prevent injuries
- 6. Manage injuries' Causes
- 7. Rehabilitate and massage athletes
- 8. Organize Competitions
- 9. Identify classification and components of nutrition and energy requirements of athletes in specified events
- 10. Train motor components through technical preparation

THEORY SYLLABUS (30 HOURS)

UNIT-I TECHNICAL PREPARATION FOR TABLE TENNIS (8 HOURS)

- 1.1 Training of motor components
- 1.2 Technical preparation reflexes, perceptual sense, neuro-muscular coordination
- 1.3 Construction and maintenance of Table Tennis court, equipment etc.
- 1.4 Physical, physiological, and Psychological preparation
- 1.5 Officiating and Coaching -Duties/responsibilities, qualifications, and qualities of a coach, Philosophy of coaching, Qualifications, and responsibilities/functions of

technical officials, Protocols of referees, judges,

1.6 Role of sports psychologists, sports physiotherapists and fitness trainers

UNIT-II SYSTEMATIZATION OF TRAINING PROCESS (8 HOURS)

- 2.1 Systematizing training process for Table Tennis players general warming-up, specific warming-up and cooling-down
- 2.2 Supplementary exercises, basic skills in Table Tennis game
- 2.3 Training for beginners, Training for intermediate players advanced sportspersons, Training for seniors high-performance sportspersons.
- 2.4 Prevention of injuries and Safety measures.

UNIT-III ORGANISATION OF THE COMPETITION (7 HOURS)

- 3.1 Planning for the Competition
- 3.2 Selection of men, material and management
- 3.3 Concluding the competition submission of accounts, preparing a report
- 3.4 Protocols and Ceremonies

UNIT-IV DIET, NUTRITION AND SPORTS PERFORMANCE (7 HOURS)

- 4.1 Meaning, definition, classification, and components of nutrition
- 4.2 Energy requirements of badminton players
- 4.3 Nutritional requirements of badminton players: pre-, during, and post-competition phases

PRACTICALS (60 HOURS)

- 1. Demonstration of skills
- 2. Training for footwork
- 3. Shadow practice and pressure training, planning for competition, organization of competition/seminar/workshop.

SUGGESTED READINGS

- 1. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- Jain D. (2001) "Teaching& Coaching Table Tennis" Khel Sahitya Kendra, Delhi.

- Burn B. (1979) "The Science of Table Tennis" S. Chand & Company ltd., N. Delhi.
- Singh, Hardayal. (1919). Science of Sports Training. DVS Publication, N. Delhi.
- 5. Jain D. (2003) "Table Tennis skills & Rules" Khel Sahitya Kendra, N. Delhi.
- 6. Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

SEMESTER-V

BSc-PE-DSE-3(4)-302: SPORTS JOURNALISM

| Course title& Code | Credits | Credit distribution of the | | | Eligibility | Pre-requisite of |
|--------------------|---------|----------------------------|----------|------------|----------------|------------------|
| | | course | | | criteria | the course (if |
| | | Lecture | Tutorial | Practical/ | | any) |
| | | | | Practice | | |
| BSc-PE-DSE-3(4)- | 4 | 3 | 0 | 1 | Class XII pass | NIL |
| 302: SPORTS | | | | | | |
| JOURNALISM | | | | | | |

Learning Objective: - the students will learn to apply knowledge of sports journalism and research in sports and Physical Education.

Learning Outcomes: After completing the course, the students will be able to:

- Understand changing trends of journalism in sports.
- Identifies the Role of journalism in sports promotion & Vice versa
- Understand Historical development & role of print and electronic media in sports promotion
- Understand the Organizational set-up of a newspaper- printing, process sequences of operations in the printing of a newspaper/journals
- Identifies various sports organizations and agencies
- Understand the Theory and principles of advertising in sports, Public relations in sports, press releases, conferences Public relations media
- Understands aspects of journalism by practicing the art on platforms like local tournaments and during sports meets.

THEORY SYLLABUS (45 HOURS)

UNIT-I INTRODUCTION & WRITING SKILLS (12 Hrs)

- 1.1 Meaning and scope of journalism in sports.
- 1.2 Role of journalism in sports promotion & Vice versa
- 1.3 Historical development & role of print and electronic media in sports promotion,

1.4 Media, ethics and responsibilities of journalist & editor (social, legal, and professional)

1.5Fundamentals of a sports story/ news, Language used

UNIT-II ORGANIZATIONAL AND PRESENTATION SKILLS FOR MEDIA (12 Hrs)

2.1 The organizational set-up of a newspaper- printing, process sequences of operations in the printing of a newspaper/journals.

2.2 Introduction of various sports organizations and agencies- Olympic Games, Asian Games ,Commonwealth Games, awards, and trophies.

2.3 New types- Write-ups: feature, follow-ups, advance story, curtain raiser, flashback, articles, filters, editorials, boxes, radio and T.V. commentary anchoring, interviews, group discussions, talk – shows, and reviews in sports

2.4 Development and maintenance of sports / personal library Statistics, records, and computers in sports.

UNIT-III EXTENDED RELEVANT DIMENSIONS (11 Hrs)

3.1 Theory and principles of advertising in sports, Public relations in sports, press releases, conferences

3.2 Public Relations Media – advertising, press releases, conferences, exhibitions, fairs, street drama, public speaking, radio, television, newspapers, films, posters, pictures, graphics, Sports photo features, and writing captions of photos.

UNIT-IV JOURNALISM AND SPORTS (10 Hrs)

4.1 Introduction to photojournalism about sports. Process of newspaper publishing and management

4.2 Olympics and Sports Journalism. Research tools for developing a sports story

4.3 Introduction to various types of information technology. Satellite communication: use of satellite in radio and T.V. communication for sports information.

PRACTICAL: 30 Hours

- 1. Reporting of sports event
- 2. Review of sports articles
- 3. Sports Photography
- 4. Article writing

SUGGESTED READINGS:

1. Aamidor A (2003).Real Sports Reporting. Indiana University Press.Valparaiso. Indiana. U.S.A.

2. Ahuja, B.N (1988) Theory and Practice of Journalism. Surject Delhi.

3. Andrews P (2005). Sports Journalism: A Practical Introduction. Sage Publications Ltd. Delhi.

4. Boyle R (2006). Sports Journalism: Context and Issues. Sage Publications Ltd.

SEMESTER-V

BSc-PE-DSE-3(4)-303: Sports Facility Planning and Management

| Course title & Code | Credits | Credit distribution of the courseLectureTutorialPractical/PracticePractice | | Eligibility criteria | Pre-requisite of The course (if any) | |
|--|---------|--|---|-------------------------|---|-----|
| BSc-PE-DSE-3(4)- 303: Sports Facility Planning and Management | 4 | 3 | 0 | 1 | Class XII pass | NIL |

Learning Objectives: To acquaint the students with the management of various sports facilities planning and related Legislation

Learning Outcomes: The Learner will able to:

- 1. Learn the facility management and its assessment
- 2. Understand indoor and outdoor facility management in conjunction with facility maintenance and supervision.
- 3. Develop to know the concept of supply & Maintenance of Equipment.
- 4. Able to understand the fundamental concepts regarding Logistics management.

THEORY SYLLABUS- (45 HOURS)

UNIT -1 HISTORY (10 Hours)

- 1.1 Modern Era of Stadium
- 1.2 Technology in the Stadium

1.3 Types of Public Assembly – Arenas, facilities, convention centers, stadium, University venues, local/civic venues.

UNIT – II FACILITY PLANNING (10 Hours)

- 2.1 Meaning and concept of facility management
- 2.2 Planning the facility
- 2.3 Health and legal considerations in facility planning
- 2.4 Assessment of Facility Management

UNIT – III FACILITY MANAGEMENT (10 Hours)

3.1 Indoor facilities management – Site selection, Indoor surfaces, Walls, Ceilings, Doors, Windows, Acoustics, Service areas, Lighting & Air quality control.

3.2 Outdoor facility management – Site selection and Development, Natural surface, Synthetic surface, Fencing & Seating plan.

- 3.3 Facility maintenance.
- 3.4 Facility Supervision& Security.

UNIT - IV FACILITY FINANCING AND LOGISTICS MANAGEMENT (15 Hours)

4.1 Facility Financing Mechanism, why do cities subsidize sports facilities?

4.2 Facility marketing - Marketing and Promotion & Facility Revenues & Expenses

4.3 Career Opportunities-Marketing Director & Public Relations/Communication Director

- 4.4 Meaning and Concept of Logistics Management
- 4.5 Planning the CompetitionVenue
- 4.6 Venue operation and crowd safety
- 4.7 Selection and Training of Workforce

PRACTICAL SYLLABUS - 30 HOURS

- 1. Visit Indoor and Outdoor Sports facilities and prepare a detailed report.
- 2. Event Planning and Execution (Provide hands-on Experience in planning and organizing Sports Events, covering logistics, security & crowd management.
- 3. Budgeting and Financial Management (Guide students, through creating a budget for sports facilities considering operation costs, maintenance, and potential revenue streams.
- 4. Technology Integration (Explore the use of technology for efficient facility management)
- 5. Contract Negotiation and Vendor Management (Teach negotiation skills and vendor management techniques essential for securing services and resources for sports facilities.

SUGGESTED READINGS

- 1. Broyles, F. J. & Rober, H. D. (1979). Administration of sports, Athletic programme: A Managerial Approach.
- 2. New York: Prentice hall Inc. Bucher, C. A. (1983). Administration of Physical Education and Athletic programme.
- 3. St. Lolis: The C.V. Hosby Co. Kozman, H.C. Cassidly, R. & Jackson, C. (1960).
- 4. Methods in Physical Education. London: W.B. Saunders Co. Pandy, L.K. (1977).
- 5. Methods in Physical Education.Delhe: Metropolitan Book Depo. 2 years B.P.Ed Curriculum | 27 Sharma, V.M. & Tiwari, R.H.: (1979).
- 6. Teaching Methods in Physical Education. Amaravati: Shakti Publication. Thomas, J. P.(1967).
- 7. Organization & administration of Physical Education. Madras: Gyanodayal Press. Tirunarayanan, C. &Hariharan, S. (1969).
- 8. Methods in Physical Education.Karaikudi: South India Press. Voltmer, E. F. &Esslinger, A. A. (1979).
- 9. The organization and administration of Physical Education. New York: Prentice Hall Inc.

DEPARTMENT OF PHYSICAL EDUCATION AND SPORTS SCIENCES UGCF: B.SC. PHYSICAL EDUCATION, HEALTH EDUCATION AND SPORTS (HONS.) NEP-2020

B.Sc (PE, HE & S) Hons.

| SEMESTER | COURSE | CONTENT /CREDITS * |
|----------|--|--|
| VI | Discipline Specific Course (DSC) | DSC -16 (4): Fundamental of Sports Training |
| | | DSC -17 (4): Test, Measurement & Evaluation in Sports |
| | | DSC -18(4): Fitness and Wellness Management |
| | Discipline Specific Elective (DSE) | CHOOSE ONE FROM POOL OF COURSES |
| | | DSE -4(4) -401: Game of Specialization –I* (Teaching and Coaching) (Game to continue from Sem V) |
| | | DSE -4(4) -402: Research Methods in Physical Education and Sports |
| | | DSE-4(4)-403: Sports Field Technology |
| | Generic Elective (GE) | Choose one from a pool of courses (of other Departments) GE-6 (4) |
| | Ability Enhancement Course (AEC) | NONE |
| | Skill Enhancement Course (SEC) OR | Choose one SEC or Internship/ Apprenticeship/ Project/ Community Outreach (2) |
| | Internship/Apprenticeship/Project (2) | |
| | Value Addition Course (VAC) | NONE |
| | | Total Credits= 22 |

* (FIGURE IN BRACKETS DENOTE CREDITS)

SEMESTER VI

SEMESTER VI BSc-PE-DSC-16(4): FUNDAMENTALS OF SPORTS TRAINING

| Course title& Code | Credits | Credit dist Lecture | ributionofth Tutorial | Eligibility criteria | Pre-requisite of the course (if any) | |
|--|---------|------------------------|--------------------------|-------------------------|--|-----|
| BSc-PE-DSC-16(4): FUNDAMENTALS OF SPORTS TRAINING | 4 | 3 | 0 | 1 | Class XII pass | Nil |

Learning Objective: - Students will acquire the knowledge (theoretical and practical) and importance of Test measurement and evaluation in physical education and Sports. **Learning Outcomes:** After completing the course, the students will be able to:

- 1. Assess fitness in Sports & exercise.
- 2. Understand Tests, Measurement, and evaluation and their importance in the field of physical education
- 3. Construct Tests
- 4. Understand Physical fitness testing
- 5. Understand the Anthropometric Measurements
- 6. Administer Senior Fitness Test

THEORY SYLLABUS: (45 HOURS)

UNIT-I INTRODUCTION TO SPORTS TRAINING (10 HOURS)

1.1 Importance, definition, Aim, and objectives of Sports Training

1.2 Characteristics and Principles of Sports Training

1.3 Training, Load, Adaptation, and Recovery: Concept of Load & Adaptation and Factors Affecting Load & adaptation.

UNIT-II MOTOR ABILITIES (10 HOURS)

- STRENGTH: Types of strength (maximum strength; explosive strength, Relative Strength and Strength endurance ,etc.) & Determining Factors affecting strength performance and methods of strength training.
- ENDURANCE: Definition and significance of endurance, forms of endurance, and Methods to develop endurance.
- SPEED: Definition, types of factors determining speed, Methods to develop

speed abilities.

• FLEXIBILITY: Definition ,Factors affecting flexibility; and Methods used to develop flexibility.

UNIT- III TECHNICAL PREPARATION, TACTICS AND PERIODIZATION (15 HOURS)

- Technical preparation: Definition and meaning of technique, skill, and style Technique training & its implication in various phases;
- Tactics and its aim, Principal of Tactical Preparation.
- Periodization: Need & types of Periodization
- Competition: Preparation for competition, number & frequency, competition preparation.

UNIT-IV SPORTS TALENT IDENTIFICATION & DEVELOPMENT (S.T.I.D). (10 HOURS)

- Concept and definition of S.T.I.D.
- Aspects and contents of S.T.I.D.
- Modern trends of S.T.I.D.
- Indian and some foreign systems of S.T.I.D.

PRACTICAL TESTS

- To measure the five motor abilities- speed, strength, endurance, flexibility and coordinative abilities.
- Selected test for STID- Any two tests.

SUGGESTED READINGS

- 1. Baechle TR & Earle R W (2000). Essentials of strength training and conditioning. Human Kinetics.USA.
- 2. NewtonH (2006) Explosive lifting for sports. Human Kinetics.US.
- 3. Routhan, T (2018), Principles of Sports Training, Sports Publication, New Delhi.
- 4. Shaw,D(2021),Sports Training: General Theory and Methods of Sports Training and Exercise, Sports Publication, New Delhi.
- 5. Uppal,A.K(2018) Scientific Principle of Sports Training, Friends Publications, New Delhi.

SEMESTER-VI BSc-PE-DSC 17(4): TEST MEASUREMENT AND EVALUATION IN SPORTS

| Course title& Code | Credits | Creditdistributionofthe course | | | Eligibility criteria | Pre- requisite |
|------------------------|---------|--------------------------------|----------|------------|-------------------------|-------------------|
| | | Lecture | Tutorial | Practical/ | | ofthe course |
| | | | | Practice | | (if any) |
| BSc-PE-DSC 17(4): TEST | 4 | 3 | 0 | 1 | Class XII pass | NIL |
| MEASUREMENT AND | | | | | | |
| EVALUATION IN | | | | | | |
| SPORTS | | | | | | |

Learning Objectives: To impart knowledge and practices about the fitness components and Wellness and relation to health

Learning Outcomes: After completing the course, the students will be able to:

- Analyze and correlate the components of physical fitness, principles of physical fitness, and benefits of fitness programs.
- Analyze, correlate, and evaluate regarding fitness profile, development, and maintenance of the player including types of motor components, principles of physical fitness, and benefits of the fitness program.
- Identify, apply and correlate different aspects of wellness
- Describe different aspects of behavior modification regarding barriers to change
- Describe, apply, correlate, and measure different aspects of the daily schedule of achieving quality of life and wellness regarding daily schedule principles to achieve quality of life

THEORY SYLLABUS (45 HOURS)

UNIT-I (9 HOURS)

1.1 Introduction to Test, Measurement, and evaluation and its importance in the field of physical education

1.2 Test constructions:-

- a) General consideration
- b) Physical fitness/efficiency test

UNIT-II (10 HOURS)

2.1 Physical fitness testing: components of physical fitness (Health and Skill), importance of physical fitness assessment

- 2.2. Strength test: Kraus Weber strength test
- 2.3 Cardio-respiratory Fitness test: 1 Mile Rockport Test
- 2.4 Muscular Endurance Test: Bent-Knee Sit Ups.
- 2.5 Flexibility test- Sit and reach test
- 2.6 Methods of Body Composition Assessment

UNIT-III (8 HOURS)

3.1Anthropometric Measurements: Weight,height,sittingheight,chestcircumference,thighcircumference,calf circumference, skinfold measurement(biceps, triceps, subscapular, and suprailiac)

UNIT – IV (9 HOURS)

4.1 Sports Skill Test-Johnson badminton test, Brady volleyball test, McDonald soccer test, Cornish Handball test, Hockey skill test-SAI hockey T est

4.2 Administration of Senior Fitness Test: Chair Stand Test for lower body strength, Chair Sit and Reach Test for lower body flexibility, Back Scratch Test for upper body flexibility, eight foot up and go test for Agility, Six minute walk test

PRACTICAL SYLLABUS (30 HOURS)

- 1. Administration 1Mile Rock Port Test
- 2. Administration of Fitness Tests
- 3. Measurement of sports skills included in theory course.

SUGGESTED READINGS

- Smith,D.C(2010),Test Measurement and Evaluation in Physical Education and Sports, Sports Education Technologies, New Delhi.
- BalyanSunita(2006).SharirkShikshamainParikshanevmnmaapan.KhelSahitya.Delhi.
- BaumgartnerTAJacksonASMaharMTandRoweDA(2007).Measurement for Evaluation in Physical Education.TheMcGraw Hill Companies. Inc. New York. USA.
- Kansal DK(2012).A practical approach to Measurement Evaluation in Physical

Education & Sports Selection. Sports & Spiritual Science Publications, New Delhi.

- Miller David K (2006). Measurement by the Physical Educator: Why and How. McGraw-Hill. Boston,U.S.A.
- Sharma JP(2006). Test and measurements in physical education. khel sahitya. Delhi

SEMESTER-VI

BSc-PE-DSC-18 (4): FITNESS AND WELLNESS MANAGEMNET

| Course title & Code | Credits | Credit distribution of the course | | | Eligibility criteria | Pre- requisite of |
|---------------------|---------|-----------------------------------|---------|------------|-------------------------|----------------------|
| | | Lectur | Tutoria | Practical/ | | the course |
| | | e | 1 | Practice | | (if any) |
| BSc-PE-DSC-18 (4): | 4 | 3 | 0 | 1 | Class XII | NIL |
| FITNESS AND | | | | | pass | |
| WELLNESS | | | | | | |
| MANAGEMNET | | | | | | |

Learning Objectives: To impart knowledge and practices about the fitness components and Wellness and relation to health

Learning Outcomes: After completing the course,

- 1. The student will understand to analyze and correlate the components of physical fitness, principles of physical fitness, and benefits of fitness programs.
- 2. The student will comprehend to analyze, correlate, and evaluate regarding fitness profile
- 3. The student will be able to identify, apply, and correlate different aspects of wellness.
- 4. The student will comprehend to describe different aspects of behavior modification
- 5. The student will be able to describe, apply, correlate, and measure different aspects of the daily schedule of achieving quality of life and wellness

THEORY SYLLABUS (45 HOURS)

UNIT–INTRODUCTION TO PHYSICAL FITNESS HOURS)

(10

- 1.1 Concept and meaning of physical fitness
- 1.2 Components of physical fitness
- 1.3 Significance of Physical fitness in the present scenario.
- 1.4 Association of physical inactivity and diseases

UNIT-II PHYSICAL FITNESS –DEVELOPMENT AND MAINTENANCE (12HOURS)

- Benefits of a fitness program
- Elements of fitness program
- Principles and Methods to Develop and Maintain Components of Physical Fitness-Cardiovascular endurance, muscular endurance, strength, flexibility, and balance.
- Body composition-Definition and importance of body composition and ways to manage desired body composition.
- Assessments done before starting a fitness program

UNIT-III WELLNESS (12HOURS)

3.1 Definition, Benefits, and Dimensions of Wellness

3.2 Adopting a healthy & positive lifestyle in terms of physical activity, Healthy hygienic habits, nutrition for health and prevention of diseases, identifying stressors and management of stress, hazards of substance abuse (smoking, alcohol, tobacco, and drugs)

3.3 Importance of rest, sleep, and recreation in daily life

UNIT-IV BEHAVIOR MODIFICATION

(11 HOURS)

4.1 Barriers to behavior change

4.2 Process of change and Stages of behavior change

- 4.3 SMART GOALS
- 4.4 Modifying Daily Schedule for Fitness and Wellness

PRACTICAL SYLLABUS (30 HOURS)

- Physical Fitness Assessment (Any one Method for each component)- cardio-vascular endurance, flexibility, muscular strength, muscular endurance, balance, and body composition.
- A day's scheduling for a healthy lifestyle for any one age group.

• Yogic Practices and Meditation techniques for Stress management

SUGGESTED READINGS:

- Sharkey, B (2011), Fitness Illustrated, Human Kinetics.
- Thompson, D.L&Howely, T, E(2012), Fitness Professional's Handbook, Human Kinet ics, Champaign.
- Muller, J.P. (,2003) ,Health Exercise and Fitness, Delhi:Sports.
- Thani,Lokesh, (2003) Rules of Game and Games and Fitness,Delhi:Sports,.

SEMESTER VI DSE (Choose one from a pool of courses)

BSc-PE-DSE-4 (4): Game of Specialization-I - Teaching and Coaching (GAME TO BE CONTINUED FROM SEM V)

SEMESTER VI GAME OF SPECIALIZATION-I -TEACHING AND COACHING BSc-PE-DSE-4 (4)-401(i): ATHLETICS

| Course title | Credits | Creditdis | tributionof | the course | U U | Pre-requisite |
|--------------------|---------|-----------|-------------|------------|-----------|---------------|
| &Code | | Lecture | Tutorial | Practical/ | criteria | of the course |
| | | Letture | Tutoriai | Practice | | (if any) |
| | | | | Tractice | | |
| Game of | 4 | 2 | 0 | 2 | Class XII | NIL |
| Specialization-I - | | | | | pass | |
| Teaching and | | | | | | |
| Coaching | | | | | | |
| BSc-PE-DSE-5 (4)- | | | | | | |
| 401(i):ATHLETICS | | | | | | |
| | | | | | | |

Learning Objectives: - The learner will be able to use the knowledge of athletics on the track and will have a command of the basic and advanced rules and regulations of marking the track and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- Officiate and coach athletics
- Identifies the Importance and principles of officiating in athletics, Relation of official and coach with management, players, and spectators
- Understands the Role of the Coach as a Mentor and duties of a coach in general, pre-, during, and postgame
- Understand the Philosophy of Coaching
- Identifies Responsibilities of a coach on and off the field, Psychology of competition, and coaching in athletics
- Fulfill Duties of officials in general, pre-, during and post game,
- Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- Inculcate Qualities and Qualifications of Coach and Official
- Maintain Integrity and values of sports

THEORY SYLLABUS (30 HOURS)

UNIT-I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in athletics
- Importance and principles of officiating in athletics
- Relation of official and coach with management, players, and spectators
- Measures of improving the standards of officiating and coaching

UNIT-II: Coach as a Mentor (8 HOURS)

- Duties of a coach in general, pre, during, and post-game.
- Philosophy of Coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in athletics

UNIT-III: Duties of Official (7 HOURS)

- Duties of officials in general, pre, during, and post-game.
- Philosophy of officiating
- Mechanics of officiating- position, singles, movement etc.
- Ethics of officiating in athletics

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualifications of coach and official in athletics
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL (60 HOURS)

1. Prepare a teaching /coaching lesson plan on any two fundamental techniquesthrows/jumps/track events (any three).

2. Prepare a teaching /coaching lesson plan on any two advanced techniques -throws/jumps/track events (any three).

3. Demonstration of various techniques related to throws/jumps/track events (any three)

SUGGESTED READINGS

- 1. Renwick, G.R., (2001) Play Better Athletics, Delhi: Sports Pub.,.
- 2.Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 3.Handbook-Rules and Regulation. International Athletic Federation (2010).
- 4.Kumar, Pardeep. (2008).Historical Development of Track & Field. Friends Publication. New Delhi
- 5.Maughan, R. and Gluson, M. (2004). The Biomechanical Basics of Athletic Performance. Oxford University Press, U.K.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSc-PE-DSE-4 (4)-401(ii): BADMINTON

| Course title &Code | Credits | | | | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|---------|----------|------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| TEACHING AND | 4 | 2 | 0 | 2 | ClassXII | NIL |
| COACHINGBSC- | | | | | pass | |
| PE-DSE-4 (4)- | | | | | | |
| 401(ii): | | | | | | |
| BADMINTON | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Badminton on the court and will have a command of the basic and advanced rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

• Concept of officiating and coaching in badminton

- Importance and principles of officiating in badminton
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of a coach in general, pre, during, and post game.
- Philosophy of Coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in badminton

UNIT- III: Duties of Official (7 HOURS)

- Duties of officials in general, pre, during and post-game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement, etc.
- Ethics of officiating in badminton

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualifications of coach and official in badminton
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

- Bloss, M.V. et al (2000). Badminton. McGraw Hill, USA.
- Downey J (1990). How to Coach Badminton. Collins Pub. London.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(iii):BASKETBALL

| Course title &Code | Credits | Credite | distribution | ofthe course | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|---------|--------------|--------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | Class XII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(III): | | | | | | |
| BASKETBALL | | | | | | |
| | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of basketball on the court and will have a command on the basic and advance rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports.

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in basketball
- Importance and principles of officiating in basketball
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in basketball

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in basketball

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in basketball
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills

3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

- Jain, (2003) Naveen Play and Learn Basket Ball, Khel Sahitya Kendra, New Delhi-
- Sharma O.P. (2003) Basket Ball Skills and Rules, Khel Sahitya Kendra Delhi-
- Thani, Yograj, (2002) Coaching Successfully Basket Ball, Sports Publisher, Delhi-.
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- Wilmore & Costill (2004). Physiology of Sports & Exercise. Human Kinetics, US.

SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(iv): CRICKET

| Course title &Code | Credits | Creditdistributionofthecourse | | | Eligibility criteria | Pre-requisite of the course |
|-------------------------|---------|-------------------------------|----------|------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | ClassXII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHING BSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(iv): CRICKET | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Cricket on the ground and will have a command on the basic and advance rules and regulations of marking the ground and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- Officiate and coach the game/sports
- Officiate in the sports/games
- Identifies Relation of official and coach with management, players and spectators
- Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- Understand Philosophy of coaching
- Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- Fulfill Duties of official in general, pre, during and post game,
- Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- Inculcate Qualities and Qualifications of Coach and Official
- Maintain Integrity and values of sports

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in cricket
- Importance and principles of officiating in cricket
- Relation of official and coach with management, players ,and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of a coach in general, pre, during, and post-game.
- Philosophy of Coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in cricket

UNIT- III: Duties of Official (7 HOURS)

- Duties of officials in general, pre, during, and post-game.
- Philosophy of officiating
- Mechanics of officiating- position, singles, and movement, etc.
- Ethics of officiating in cricket

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualifications of coach and official in cricket
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

- Amarnath M. (1996). Learn to Play Good Cricket. UBS Publishers New Delhi.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(v): FOOTBALL

| Course title &Code | Credits | Credit | distribution course | n of the | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|---------|------------------------|------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | Class XII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(v): | | | | | | |
| FOOTBALL | | | | | | |
| | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Football on the ground and will have a command on the basic and advance rules and regulations of marking the ground and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- Officiate and coach the game/sports
- Officiate in the sports/games
- Identifies Relation of official and coach with management, players and spectators
- Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- Understand Philosophy of coaching
- Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- Fulfill Duties of official in general, pre, during and post game,
- Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- Inculcate Qualities and Qualifications of Coach and Official
- Maintain Integrity and values of sports

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Football
- Importance and principles of officiating in football
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in football

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in football

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in football
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

- 1. N. Kumar, (2003) Play and Learn Football, New Delhi: K.S.K,.
- 2. Sharma, O.P., (2 001) Teaching and Coaching –Football, Delhi: Khel S.K.,.
- 3. Thani, Yograj, (2002) Coaching Successfully Football, New Delhi: K.S.K,.

- Carling, C., Williams, M. and Reilling, T. (2006). Handbook of Soccer MatchAnalysis: A Systematic Approach to Improving Performance. Routledge Publishers ,USA.
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- 6. Reilly, T., and J.C.D. Arau (2008). Science and Football V: The Proceedings of the5th World Congress on Sports Science and Football, Volume 5.
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SEMESTER VI

GAME OF SPECIALIZATION-I- TEACHING AND COACHING

| Course title | Credits | Credit | distributio | n of the | Eligibility | Pre- requisite |
|-----------------|---------|---------|-------------|------------|-------------|----------------|
| &Code | | | course | | criteria | of the course |
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | ClassXII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(vi): | | | | | | |
| GYMNASTICS | | | | | | |
| | | | | | | |

BSC-PE-DSE-4 (4)-401(vi): GYMNASTICS

Learning Objective: - The learner will be able to use the knowledge of Gymnastics on the floor and will have a command of the basic and advanced rules and regulations of marking the floor and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Gymnastics
- Importance and principles of officiating in Gymnastics
- Relation of official and coach with management, players, and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of a coach in general, pre-, during, and post-game.
- Philosophy of Coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in Gymnastics

UNIT- III: Duties of Official (7 HOURS)

- Duties of officials in general, pre, during, and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles, and movement, etc.
- Ethics of officiating in Gymnastics

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in Gymnastics
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports

PRACTICAL SYLLABUS (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of techniques of Gymnastics (any three)

SUGGESTED READINGS

- 1. Code of Points Trampoline Gymnastics, Federation Int. De Gymnastics, 2005.
- 2. Federation Internationale Gymnastics, Federation Int. De Gymnastics, 2006.
- 3. Jain, R., (2005) Play and Learn Gymnastics, Khel Sahitya Kendra,.
- 4. Jain, R., (2003) Play and Learn Gymnastics, New Delhi: Khel Sahitya Kendra,.
- 5. Brown (2009). How to Improve at Gymnastics. Crab tree Publishing Co., USA.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(vii): HANDBALL

| Course title &Code | Credits | Credit distribution of the course | | | Eligibility criteria | Pre- requisite of the course |
|-----------------------|---------|-----------------------------------|----------|------------|-------------------------|---------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | CLASS | NIL |
| SPECIALIZATION- | | | | | XII PASS | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(vii):- | | | | | | |
| HANDBALL | | | | | | |
| | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Handball on the ground and will have a command on the basic and advance rules and regulations of marking the ground and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Handball
- Importance and principles of officiating in Handball
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in Handball

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in Handball

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in Handball
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL SYLLABUS (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

1. Jain, D., Play & Learn Handball, New Delhi, Khel Sahitya Kendra, 2003.

- 2. Jain D (2003). Play & Learn Handball. Khel Sahitya Kendra. New Delhi.
- **3.** Kleinman, I. (2009). Complete Physical Education Plans. 2nd Ed. Human Kinetics, USA.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(VIII):HOCKEY

| Course title &Code | Credits | Creditdistributionofthecourse | | | Eligibility criteria | Prerequisite of the course |
|-----------------------|---------|-------------------------------|----------|------------|-------------------------|-------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | Class XII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(viii):HOCKEY | | | | | | |
| | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Hockey on the field and will have a command on the basic and advance rules and regulations of marking the field and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports
- 11. Prepare a teaching /coaching lesson plan
- 12. Demonstrate various attacking and defensive drills.

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Hockey
- Importance and principles of officiating in Hockey
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in Hockey

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in Hockey

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in Hockey
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL SYLLABUS (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

1. Umpires. India, International Hockey Federation, 2003.

- 2. Jain, D., Hockey Skills & Rules New Delhi, khel Sahitya Kendra, 2003.
- 3. Narang, P., Play & Learn Hockey, Khel Sahitya Kendra, New Delhi, 2003
- 4. Thani Yograj., Coaching Successfully Hockey, Delhi, Sports Publication, 2002.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(ix): JUDO

| Course title &Code | Credits | Credit distribution of the course | | | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|-----------------------------------|----------|------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | Class XII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(ix): JUDO | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Judo in the Dojo and will have a command on the basic and advance rules and regulations of marking the Dojo and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports
- 11. Prepare a teaching /coaching lesson plan
- 12. Demonstrate various attacking and defensive drills..

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Judo
- Importance and principles of officiating in Judo
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the Dojo
- Psychology of competition and coaching in Judo

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in Judo

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in Judo
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Dojo Marking and Dimension of the game in Judo

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

1. Harrison, E.J., (2002) Coaching Successfully Judo, Delhi: Sports,.

- 2. Jain, D., (2003) Play and Learn Judo, New Delhi: Khel Sahitya Kendra,.
- 3. Putin, V, Shestakov, V. ad evitsky, A.(2004). Judo: History, Theory and Practice. Blue Snake Books, Moscow.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(X): KABADDI

| Course title | Credi | Credit | distributio | n of the | Eligibility | Pre-requisite |
|-------------------|-------|-----------------------------|-------------|----------|-------------|---------------|
| &Code | ts | course | | | criteria | of the course |
| | | Lecture Tutorial Practical/ | | | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | Class XII | NIL |
| SPECIALIZATION-I- | | | | | pass | |
| TEACHING AND | | | | | | |
| COACHINGBSC-PE- | | | | | | |
| DSE-4 (4)- | | | | | | |
| 401(X):KABADDI | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Kabaddi on the court and will have a command on the basic and advance rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports
- 11. Prepare a teaching /coaching lesson plan
- 12. Demonstrate various attacking and defensive drills.

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Kabaddi
- Importance and principles of officiating in Kabaddi
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in Kabaddi

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in Kabaddi

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in Kabaddi
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL SYLLABUS (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various techniques in kabaddi (any three)

SUGGESTED READINGS

- 1. Kumar, Dharmander. (2018). Kabaddi and It's Playing Techniques. Writers Choice, New Delhi.
- 2. Kumar, Dharmander. (2023). Kabaddi Dynamics: Skill, Technics, Tactics & Science, Khel Sahitya Kendra, New Delhi.
- 3. Mishra, S.C. (2007). Teach Yourself Kabaddi. Sports Publications, New Delhi.

- 4. Syal, M. (2004). Kabaddi Teaching. Prerna Parkashan, New Delhi.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(XI): KHO-KHO

| Course title &Code | Credits | Credit distribution of the course | | | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|-----------------------------------|---|----------|-------------------------|--------------------------------|
| | | Lecture Tutorial Practical/ | | | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | Class XII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(XI):KHO-KHO | | | | | | |

Learning Objectives: - The learner will be able to use the knowledge of Kho-Kho on the ground and will have a command on the Teaching and Coaching of the subject.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports
- 11. Prepare a teaching /coaching lesson plan
- 12. Demonstrate various attacking and defensive drills.

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Kho-Kho
- Importance and principles of officiating in Kho-Kho
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in Kho-Kho

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in Kho-Kho

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in Kho-Kho
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills (any three)

SUGGESTED READINGS

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- 3. Tyagi S., Vanaik A, (2023) The Art and Science of Sports Coaching, (Vol I), Friends Publications (India), ISBN: 978-93-5978-893-7,

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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(XII): VOLLEYBALL

| Course title &Code | Credits | Creditdistributionofthe course | | | Eligibility criteria | Pre- requisite of the course |
|-----------------------|---------|--------------------------------|----------|------------|-------------------------|---------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | ClassXII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(XII):VOLLEYB | | | | | | |
| ALL | | | | | | |

Learning Objectives: - The learner will be able to use the knowledge of Volleyball on the court and will have a command on the basic and advance rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports
- 11. Prepare a teaching /coaching lesson plan
- 12. Demonstrate various attacking and defensive drills.

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Volleyball
- Importance and principles of officiating in Volleyball
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in Volleyball

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in Volleyball

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in Volleyball
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game in Volleyball

PRACTICAL SYLLABUS (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills in Volleyball.

SUGGESTED READINGS

1. The National Alliance for Youth. Sports (2009). Coaching Volleyball

For Dummies Publishers, USA.

- 2. Volleyball, USA (2009). Volleyball: Systems and Strategies. Human Kinetics, USA.
- 3. Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- 4. Kenny, B. and Gregory, C. (2006). Volleyball: Steps to Success. Human Kinetics, USA.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(XIII): YOGA

| Course title &Code | Credits | | | | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|-----------------------------|---|----------|-------------------------|---------------------------------------|
| | | Lecture Tutorial Practical/ | | | | (if any) |
| | | | | Practice | | , , , , , , , , , , , , , , , , , , , |
| GAME OF | 4 | 2 | 0 | 2 | ClassXII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(XIII): YOGA | | | | | | |

Learning Objectives: - The learner will be able to use the knowledge of Yoga and will have a command on the basic and advance rules and regulations and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports
- 11. Prepare a teaching /coaching lesson plan
- 12. Demonstrate of various Meditation, Shat Kriya (any two)

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Yoga
- Importance and principles of officiating in Yoga
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the field of yoga
- Psychology of competition and coaching in Yoga

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in Yoga

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualifications of coach and official in Yoga
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of yoga sports

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various Meditation, Shat Kriya (any two)

SUGGESTED READINGS

- 1. Kaminoff, L. et al (2007). Yoga Anatomy. Human Kinetics, USA.
- 2. Kirk, M. (2005). The Hatha Yoga Illustrated. Human Kinetics, USA.
- 3. Sharma JP and Ganesh S(2007). Yog Kala Ek Prichya. Friends Publication. New Delhi
- 4. Sharma J. P. (2007). Manav Jeevan evam yoga. Friends Publication. New Delhi.
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- 6. Mukerji, A.P. (2010). The Doctrine and Practice of Yoga. General Books, LLC, New Delhi.
- 7. Norton, W.W. (2010). Yoga for Osteoporosis: The Complete Guide. W.W. Norton & Company, USA.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSc-PE-DSE-4 (4)-401(xiv): SWIMMING

| Course title &Code | Credits | Creditdistributionofthe course | | | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|--------------------------------|---|----------|-------------------------|--------------------------------|
| | | Lecture Tutorial Practical/ | | | | (if any) |
| | | | | Practice | | |
| TEACHING AND | 4 | 2 | 0 | 2 | Class XII | NIL |
| COACHINGBSC- | | | | | pass | |
| PE-DSE-4 (4)- | | | | | | |
| 401(xiv): | | | | | | |
| SWIMMING | | | | | | |

Learning Objective: - The learner will have knowledge of Swimming and will have a command of the basic and advanced rules and regulations of Swimming and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 11. Officiate and coach the game/sports
- 12. Officiate in the sports/games
- 13. Identifies Relation of official and coach with management, players and spectators
- 14. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 15. Understand Philosophy of coaching
- 16. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 17. Fulfill Duties of official in general, pre, during and post game,
- 18. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 19. Inculcate Qualities and Qualifications of Coach and Official
- 20. Maintain Integrity and values of sports

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Swimming
- Importance and principles of officiating in Swimming

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

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of a coach in general, pre, during, and post game.
- Philosophy of Coaching
- Responsibilities of a coach on and off the Pool Area
- Psychology of competition and coaching in Swimming

UNIT- III: Duties of Official (7 HOURS)

- Duties of officials in general, pre, during and post-game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement, etc.
- Ethics of officiating in Swimming

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualifications of coach and official in Swimming
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Pool Marking and Dimension of the game

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

- 1.Jain. D. (2003). "Swimming Skills & Rules" Khel Sahitya Kendra, New Delhi, India
- 2.Hardy, Colin (1987) "Handbook for the Teacher Of Swimming" Pelham books ltd., London (U.K)
- 3.Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of

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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSC-PE-DSE-4 (4)-401(xv): WRESTLING

| Course title &Code | Credits | Credit distribution of the course | | | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|-----------------------------------|---|----------|-------------------------|--------------------------------|
| | | Lecture Tutorial Practical/ | | | | (if any) |
| | | | | Practice | | |
| GAME OF | 4 | 2 | 0 | 2 | Class XII | NIL |
| SPECIALIZATION- | | | | | pass | |
| I- TEACHING AND | | | | | | |
| COACHINGBSC- | | | | | | |
| PE-DSE-4 (4)- | | | | | | |
| 401(xv): | | | | | | |
| WRESTLING | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Wrestling and will have a command on the basic and advance rules and regulations of Wrestling and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports
- 11. Prepare a teaching /coaching lesson plan
- 12. Demonstrate various attacking and defensive drills..

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Wrestling
- Importance and principles of officiating in Wrestling
- Relation of official and coach with management, players and spectators
- Measures of improving the standards of officiating and coaching

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of coach in general, pre, during and post game.
- Philosophy of coaching
- Responsibilities of a coach on and off the Wrestling Ring
- Psychology of competition and coaching in Wrestling

UNIT- III: Duties of Official (7 HOURS)

- Duties of official in general, pre, during and post game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement etc.
- Ethics of officiating in Wrestling

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualification of coach and official in Wrestling
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Marking and Dimension of the field/ring in Wrestling

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

- 1. Gable, D. (1999) "Coaching Wrestling Succefully" Human Kinetics, U.S.A
- Camaione D. & Tillman K. (1980) "Teaching & Coaching Wrestling A Scientific Approach" John Wiley & Sons. Inc., U.S.A.
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SEMESTER VI GAME OF SPECIALIZATION-I- TEACHING AND COACHING BSc-PE-DSE-4 (4)-401(xvi): TABLE TENNIS

| Course title &Code | Credits | Creditdistributionofthe course | | | Eligibility criteria | Pre-requisite of the course |
|-----------------------|---------|--------------------------------|---|----------|-------------------------|--------------------------------|
| | | Lecture Tutorial Practical/ | | | | (if any) |
| | | | | Practice | | |
| TEACHING AND | 4 | 2 | 0 | 2 | Class XII | NIL |
| COACHINGBSC- | | | | | pass | |
| PE-DSE-4 (4)- | | | | | | |
| 401(xvi): TABLE | | | | | | |
| TENNIS | | | | | | |

Learning Objective: - The learner will be able to use the knowledge of Table Tennis on the court and will have a command of the basic and advanced rules and regulations of marking the court and conducting a tournament.

Learning Outcomes: After completing the course, the students will be able to:

- 1. Officiate and coach the game/sports
- 2. Officiate in the sports/games
- 3. Identifies Relation of official and coach with management, players and spectators
- 4. Understands Role of Coach as a Mentor, Duties of coach in general, pre, during and postgame
- 5. Understand Philosophy of coaching
- 6. Identifies Responsibilities of a coach on and off the field, Psychology of competition and coaching in athletics
- 7. Fulfill Duties of official in general, pre, during and post game,
- 8. Understand Philosophy of officiating, Mechanics of officiating- position, singles and movement etc., Ethics of officiating in athletics,
- 9. Inculcate Qualities and Qualifications of Coach and Official
- 10. Maintain Integrity and values of sports

THEORY SYLLABUS (30 HOURS)

UNIT- I: Introduction of Officiating and Coaching (8 HOURS)

- Concept of officiating and coaching in Table Tennis
- Importance and principles of officiating in Table Tennis

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

UNIT- II: Coach as a Mentor (8 HOURS)

- Duties of a coach in general, pre, during, and post game.
- Philosophy of Coaching
- Responsibilities of a coach on and off the field
- Psychology of competition and coaching in Table Tennis

UNIT- III: Duties of Official (7 HOURS)

- Duties of officials in general, pre, during and post-game.
- Philosophy of officiating
- Mechanics of officiating- position, singles and movement, etc.
- Ethics of officiating in Table Tennis

UNIT- IV: Qualities and Qualifications of Coach and Official (7 HOURS)

- Qualities and qualifications of coach and official in Table Tennis
- General rules of games and sports
- Eligibility rules of intercollegiate and inter-university tournaments,
- Integrity and values of sports
- Field Marking and Dimension of the game

PRACTICAL (60 HOURS)

- 1. Prepare a teaching /coaching lesson plan on any two fundamental skills
- 2. Prepare a teaching /coaching lesson plan on any two advanced skills
- 3. Demonstration of various attacking and defensive drills

SUGGESTED READINGS

- Bompa O. Tudor and Halff G. Gregory. (2009) "Periodization Theory and Methodology of Training" Human kinetics. NY.
- Jain D. (2001) "Teaching& Coaching Table Tennis" Khel Sahitya Kendra, Delhi.

- Burn B. (1979) "The Science of Table Tennis" S. Chand & Company ltd., N. Delhi.
- Jain D. (2003) "Table Tennis skills & Rules" Khel Sahitya Kendra, N. Delhi.
- Tyagi S., Vanaik A, (2023) The Art and Science of Sports Coaching, (Vol I), Friends Publications (India), ISBN: 978-93-5978-893-7,
- Tyagi S., Vanaik A, (2023) The Art and Science of Sports Coaching, (Vol II), Friends Publications (India), ISBN: 978-93-5978-893-7,
- Vanaik A. (2017). Officiating and Coaching, Friends Publication. New Delhi

SEMESTER-VI

BSc-PE-DSE-4(4)-402: RESEARCH METHODS IN PHYSICAL EDUCATION AND SPORTS

| Course title & Code | Credits | Credit course Lecture | distributio | on of the Practical/ | Eligibility criteria | Pre- requisite of the |
|--|---------|-----------------------------|-------------|-------------------------|-------------------------|-----------------------------|
| | | Lecture | 1 utoriui | Practice | | course (if any) |
| BSc-PE-DSE-4(4)- 402: RESEARCH METHODS IN PHYSICAL EDUCATION AND SPORTS | 4 | 3 | 1 | 0 | Class XII pass | NIL |

Learning Objective: The student will gain knowledge about Research Methods of sampling, writing of Research Reports and analysis of the data through statistical techniques.

Learning Outcome:

- 1. The student will be able to use the knowledge of Research for analysis of data and leading to logical conclusion on any field of investigation.
- 2. The student will learn the Research: Nature, Unscientific vs. scientific methods of problem-solving, Ethical Issues in Research, Identification and criteria in selecting a Research Problem, defining and delimiting problem, and Literature review: Purpose, Literature search methods, steps of literature review, major literature sources.
- The student will develop an understanding of Sampling (Random, cluster, stratified), Survey:- Survey by Questionnaire and survey by Interview, Experimental Methods:-Relationship studies, Comparative Studies and Control of experimental factors and Instrumentation.
- 4. The student will gain knowledge of the Research proposal, Organization of the Thesis report, Research article, oral and poster presentation, Table, figure, and bibliography.
- 5. The student will learn about the Types of data, Measures of central tendency (mean, median, and mode), Measures of variability (range and standard deviation), numerical problems to be solved from raw data, Tests for measuring correlation (Product moment

correlation) and differences (Independent T-test), numerical problems to be solved from raw data, plotting of graphs and chart.

THEORY SYLLABUS (45 HOURS)

UNIT 1 Introduction to Research in Physical Education (10HOURS)

1.1 Research: Nature, Unscientific vs. scientific methods of problem-solving, Ethical Issues in Research.

1.2 Identification and criteria in selecting a Research Problem, defining and delimiting the problem.

1.3 Literature review: Purpose, Literature search methods, steps of literature review, major literature sources.

1. 4 Statistical concepts: Importance of statistics in Physical Education, ways to select a sample.

UNIT 2 Research Methods (10HOURS)

2.1 Sampling (Random, cluster, stratified)

2.2 Survey:- Survey by Questionnaire and Survey by Interview

2.3 Experimental Methods: - Relationship studies, Comparative Studies and Control of experimental factors.

2.4 Instrumentation

UNIT 3 Writing the Research Report (12 HOURS)

3.1 Research proposal

- 3.2 Organization of the Thesis Report
- 3.3 Research article, oral and poster presentation
- 3.4 Table, figure, bibliography.

UNIT 4 Statistical Concepts in Research (13 HOURS)

4.1 Types of data

4.2 Measures of central tendency (mean, median and mode), Measures of variability (range and standard deviation), numerical problems to be solved from raw data.

4.3 Tests for measuring correlation (Product moment correlation) and differences (Independent T-test), numerical problems to be solved from raw data, and plotting of graphs and charts.

SUGGESTED READINGS:

- Koul, L. (2002). Methodology of Educational Research, Vikas Publishing House, NewDelhi.
- Thomas, J.R., & amp; Nelson J.K. (2005). Research method in physical activity.U.S.A: Champaign, IL: Human Kinetics Books.
- Thomas, J.R., Nelson, J.K. & amp; Silverman, S.J. (2011). Research method inphysical activity. U.S.A: Champaign, IL: Human Kinetics Books.
- Verma, J. P. (2000). A text book on sports statistics. Gwalior: Venus Publications
- Silverman, S.J&Nelson, K.J&Thomas, R.J (2011), Research Methods in Physical Activity, Hu man Kinetics, Champaign.
- Sharma,L & Nayar, K (2015), Dictionary of Terms in Research Methodology, The Readers Paradise, New Delhi.
- Kumar, S (2018). Research Methodology : A Step By Step Guide for Beginners, Yking Books, Jaipur.

SEMESTER – VI

| Course title & Code | Credits | Creditdis | tributionof | the course | Eligibility criteria | Pre-requisite of the course |
|----------------------|---------|-----------|-------------|------------|-------------------------|--------------------------------|
| | | Lecture | Tutorial | Practical/ | | (if any) |
| | | | | Practice | | |
| BSc-PE-DSE-4(4): 403 | 4 | 3 | 1 | 0 | Class XII pass | NIL |
| SPORTS FIELD | | | | | | |
| TECHNOLOGY | | | | | | |
| | | | | | | |

Learning Outcome: - The learner will be able to use the knowledge of Yoga and will have a command of the basic and advanced rules and regulations and conducting a tournament.

Learning Objectives:-

1. The student will understand Technical preparation, Marking, Physical, physiological, psychological, and sociological characteristics Technical Preparation for Focused Events, Required motor abilities and their technical preparation, Technical and tactical preparation, Physical, physiological, psychological and sociological characteristics of athletes

2. The student will comprehend Structure and organization of the meet Budgeting, purchase of equipment Preparation, execution, and conclusion of the respective events Protocols and ceremonies

3. The student will apprehend how a particular instrument is made and how it is used.

THEORY SYLLABUS (45 HOURS)

UNIT I – Sports Technology (12 HOURS)

1.1 Meaning and definition of sports technology.

- 1.2 Significance of technology in sports
- 1.3 General Principles of instrumentation in sports.

1.4 Meaning of Foams, Types of foams (Polyurethane, Polystyrene, Styrofoam, closed-cell, open-cell foams, and Neoprene) and their uses in different sports.

UNIT II – Nanotechnology in Sports Materials (12 HOURS)

- 2.1 Meaning and Definition of Nanotechnology
- 2.2 Meaning of nano glue and nano molding technology.
- 2.3 Uses and Benefits of Nanotechnology in sports uniforms, and Safety equipment
- 2.4 Uses and Benefits of Nanotechnology in Sports equipment and playing surfaces

UNIT III – Surfaces of Playfields and Measuring Gadgets (10 HOURS)

3.1 Method of construction and installation for Synthetic and Cinder tracks.

3.2 Meaning and types of flooring materials for different sports: synthetic (polyurethane and poly grass) and wooden.

3.4 Modern Measuring Equipment Used in Running, Throwing, and Jumping Events.

UNIT IV - Modern Stadiums and Training Machines (11 HOURS)

4.1 Identifying requirements of indoor and outdoor playfields

4.2 Tennis: Serving Machine, Mechanism and Advantages

4.3 Dimensions of Sports Infrastructure - Gymnasium, Pavilion, Swimming Pool, Indoor Stadium and Outdoor Stadium.

4.4 Lighting Facilities: Method of erecting and luminous in indoor and outdoor stadiums. Methods of measuring luminous.

SUGGESTED READINGS

- 1. Finn, R.A. and Trojan P.K. (1999) "Engineering Materials and their Applications" UK: Jaico Publisher.
- 2. John Mongilo, (2001), "Nano Technology 101 "New York: Green wood publishing group. Walia,
- 3. Principles and Methods of Education (Paul Publishers, Jullandhar), 1999.