

**DAV University, Jalandhar**  
**Scheme of Post Graduate Course {B.P.Ed 2 year Program (Program ID- 201)}**

**SEMESTER – I**

| S.No                                | Paper Code  | Course Title   | L         | T        | P         | Cr        | ST | MSE | ETE | TOTAL      |
|-------------------------------------|-------------|--|-----------|----------|-----------|-----------|----|-----|-----|------------|
| <b>Core Courses</b>                 |             |  |           |          |           |           |    |     |     |            |
| 1                                   | PHE         | History, Principles and Foundation of Physical Education | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 2                                   | PHE         | Anatomy and Exercise Physiology                          | 4         | 0        | 0         | 4         |    |     |     |            |
| 3                                   | PHE         | Health Education and Environmental Studies               | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| <b>Core (Practical) Courses</b>     |             |  |           |          |           |           |    |     |     |            |
| 5                                   | PHE         | Game Specialization- 5                                   | 0         | 0        | 6         | 4         |    |     |     | 100        |
| 6                                   | PHE         | Drills & Callisthenics- III                              | 0         | 0        | 3         | 2         |    |     |     | 50         |
| <b>Elective Course(Any One)</b>     |             |  |           |          |           |           |    |     |     |            |
| 9                                   | PHE         | Olympic Movement   | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 10                                  | PHE         | Fundamentals of coaching and officiating                 | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| <b>Compulsory Foundation Course</b> |             |  |           |          |           |           |    |     |     |            |
| 11                                  | ENG – 159 A | English Literature and Communication Skills-V            | 3         | 0        | 0         | 3         | 20 | 30  | 50  | 75         |
| 12                                  | ENG – 159 B | English Literature and Communication Skills- V (Lab.)    | 0         | 0        | 2         | 1         | 25 |     |     |            |
|                                     |             |  | <b>19</b> | <b>0</b> | <b>11</b> | <b>26</b> |    |     |     | <b>650</b> |

All Courses will be evaluated on the basis of 30% Internal Evaluation and 70% External Evaluation

**L: Lectures T: Tutorial P: Practical Cr: Credits**

**Evaluation:**

The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade point. Evaluation for each course shall be done by a continuous internal assessment (CIA) by the concerned course teacher as well as by end semester examination and will be consolidated at the end of course. The components for continuous internal assessment are;

|                                    |                 |
|------------------------------------|-----------------|
| <u>One Test</u>                    | <u>15 Marks</u> |
| <u>Assignments / Lab Practical</u> | <u>10 Marks</u> |
| <u>Attendance</u>                  | <u>5 Marks</u>  |
| <u>Total</u>                       | <u>30 Marks</u> |

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**SEMESTER- II**

| S.No                                | Paper Code  | Course Title   | L         | T        | P         | Cr        | ST | MSE | ETE | TOTAL      |
|-------------------------------------|-------------|--|-----------|----------|-----------|-----------|----|-----|-----|------------|
| <b>Core Courses</b>                 |             |  |           |          |           |           |    |     |     |            |
| 1                                   | PHE         | Yoga Education   | 2         | 0        | 0         | 2         | 20 | 30  | 50  | 50         |
| 2                                   | PHE         | Yoga Education (Practical)   | 0         | 0        | 4         | 2         |    |     |     | 50         |
| 3                                   | PHE         | Educational Technology and Methods of Teaching in Physical Education | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 4                                   | PHE         | Organization and Administration in Physical Education                | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| <b>Core (Practical) Courses</b>     |             |  |           |          |           |           |    |     |     |            |
| 5                                   | PHE         | Game Specialization-6  | 0         | 0        | 6         | 4         |    |     |     | 100        |
| 6                                   | PHE         | Track & Field - IV (Throwing Events)                                 | 0         | 0        | 6         | 4         |    |     |     | 100        |
| <b>Elective Course(Any One)</b>     |             |  |           |          |           |           |    |     |     |            |
| 9                                   | PHE         | Contemporary Issues in Physical Education.                           | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 10                                  | PHE         | Sports Nutrition and Weight Management                               | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| <b>Compulsory Foundation Course</b> |             |  |           |          |           |           |    |     |     |            |
| 11                                  | ENG - 160 A | English Literature and Communication Skills- VI                      | 3         | 0        | 0         | 3         | 20 | 30  | 50  | 75         |
| 12                                  | ENG - 160 B | English Literature and Communication Skills- VI (Lab.)               | 0         | 0        | 2         | 1         | 20 | 30  | 50  | 25         |
|                                     |             |  | <b>17</b> | <b>0</b> | <b>18</b> | <b>28</b> |    |     |     | <b>700</b> |

All Courses will be evaluated on the basis of 30% Internal Evaluation and 70% External Evaluation

**L: Lectures T: Tutorial P: Practical Cr: Credits**

**Evaluation:**

The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade point. Evaluation for each course shall be done by a continuous internal assessment (CIA) by the concerned course teacher as well as by end semester examination and will be consolidated at the end of course. The components for continuous internal assessment are;

|                                    |                 |
|------------------------------------|-----------------|
| <u>One Test</u>                    | <u>15 Marks</u> |
| <u>Assignments / Lab Practical</u> | <u>10 Marks</u> |
| <u>Attendance</u>                  | <u>5 Marks</u>  |
| <u>Total</u>                       | <u>30 Marks</u> |

**DAV University, Jalandhar**  
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**SEMESTER-III**

| S.No                            | Paper Code | Course Title                                      | L         | T        | P         | Cr        | ST | MSE | ETE | TOTAL      |
|---------------------------------|------------|---|-----------|----------|-----------|-----------|----|-----|-----|------------|
| <b>Core Courses</b>             |            |   |           |          |           |           |    |     |     |            |
| 1                               | PHE        | Sports Training                                   | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 2                               | PHE        | Sports Psychology and Sociology                   | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 3                               | PHE        | Research and Statistics in Physical Education     | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| <b>Core (Practical) Courses</b> |            |   |           |          |           |           |    |     |     |            |
| 4                               | PHE        | Track and Field - II(Jumping Events)              | 0         | 0        | 6         | 4         |    |     |     | 100        |
| 5                               | PHE        | Game specialization-3                             | 0         | 0        | 6         | 4         |    |     |     | 100        |
| <b>Elective Course(Any One)</b> |            |   |           |          |           |           |    |     |     |            |
| 6                               | PHE        | Sports Medicine, Physiotherapy and Rehabilitation | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 7                               | PHE        | Curriculum Design                                 | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
|                                 |            |   | <b>16</b> | <b>0</b> | <b>12</b> | <b>24</b> |    |     |     | <b>600</b> |

All Courses will be evaluated on the basis of 30% Internal Evaluation and 70% External Evaluation

**L: Lectures T: Tutorial P: Practical Cr: Credits**

**Evaluation:**

The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade point. Evaluation for each course shall be done by a continuous internal assessment (CIA) by the concerned course teacher as well as by end semester examination and will be consolidated at the end of course. The components for continuous internal assessment are;

|                                    |                 |
|------------------------------------|-----------------|
| <u>One Test</u>                    | <u>15 Marks</u> |
| <u>Assignments / Lab Practical</u> | <u>10 Marks</u> |
| <u>Attendance</u>                  | <u>5 Marks</u>  |
| <u>Total</u>                       | <u>30 Marks</u> |

**DAV University, Jalandhar**  
**Scheme of Post Graduate Course {B.P.Ed 2 year Program (Program ID- 201)}**

**SEMESTER- IV**

| S.No                            | Paper Code | Course Title   | L         | T        | P         | Cr        | ST | MSE | ETE | TOTAL      |
|---------------------------------|------------|--|-----------|----------|-----------|-----------|----|-----|-----|------------|
| <b>Core Courses</b>             |            |  |           |          |           |           |    |     |     |            |
| 1                               | PHE        | Measurement and Evaluation in Physical Education                         | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 2                               | PHE        | Kinesiology and Biomechanics   | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| <b>Core (Practical) Courses</b> |            |  |           |          |           |           |    |     |     |            |
| 3                               | PHE        | Track and field-III  | 0         | 0        | 6         | 4         |    |     |     | 100        |
| 4                               | PHE        | Game specialization - 4  | 0         | 0        | 6         | 4         |    |     |     | 100        |
| 5                               | CSA 104    | Computer Applications  | 0         | 0        | 4         | 2         |    |     |     | 50         |
| 6                               | PHE        | Teaching Practice- Internship  | 0         | 0        | 0         | 4         |    |     |     | 100        |
| <b>Elective Course(Any One)</b> |            |  |           |          |           |           |    |     |     |            |
| 7                               | PHE        | Theory of sports and games(Specifically sports and games specialization) | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
| 8                               | PHE        | Sports Management  | 4         | 0        | 0         | 4         | 20 | 30  | 50  | 100        |
|                                 |            |  | <b>12</b> | <b>0</b> | <b>16</b> | <b>26</b> |    |     |     | <b>650</b> |

All Courses will be evaluated on the basis of 30% Internal Evaluation and 70% External Evaluation

**L: Lectures T: Tutorial P: Practical Cr: Credits**

**Evaluation:**

The performance of a student in each course is evaluated in terms of percentage of marks with a provision for conversion to grade point. Evaluation for each course shall be done by a continuous internal assessment (CIA) by the concerned course teacher as well as by end semester examination and will be consolidated at the end of course. The components for continuous internal assessment are;

|                                    |                 |
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| <u>One Test</u>                    | <u>15 Marks</u> |
| <u>Assignments / Lab Practical</u> | <u>10 Marks</u> |
| <u>Attendance</u>                  | <u>5 Marks</u>  |
| <u>Total</u>                       | <u>30 Marks</u> |

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**Game specialization – choose anyone of the following for every semester. No single game can be repeated. Every student shall opt for a different game in each semester.**

- |                        |                       |
|------------------------|-----------------------|
| <b>1. Basketball</b>   | <b>9. Hockey</b>      |
| <b>2. Kabbadi</b>      | <b>10. Judo</b>       |
| <b>3. Kho-kho</b>      | <b>11. Volleyball</b> |
| <b>4. Badminton</b>    | <b>12. Yoga</b>       |
| <b>5. Cricket</b>      | <b>13. Boxing</b>     |
| <b>6. Football</b>     | <b>14. Wrestling</b>  |
| <b>7. Handball</b>     |                       |
| <b>8. Table Tennis</b> |                       |

**Choose anyone of the following community services**

- 1) Drug Awareness**
- 2) Road safety awareness**
- 3) Awareness about female foeticide**
- 4) Awareness of Swachh Bharat Abhiyaan.**
- 5) Adult Education**

**NOTE: Provision of Credits Maximum 06 Credits in each Semester**

| <b>Sr. No.</b> | <b>Special Credits forte Extra Co-curricular Activities</b>   | <b>Credit</b>                    |
|----------------|---|----------------------------------|
| <b>1</b>       | <b>Sports Achievement at State level Competition (Medal Winner)</b><br><b>Sports Achievement National level Competition (Medal Winner)</b><br><b>Sports participation International level Competition</b> | <b>1</b><br><b>2</b><br><b>4</b> |
| <b>2</b>       | <b>Inter Uni. Participation (Any one game)</b>  | <b>2</b>                         |
| <b>3</b>       | <b>National Cadet Corps / National Service Scheme</b>   | <b>2</b>                         |
| <b>4</b>       | <b>Blood donation / Cleanliness drive / Community services /</b>  | <b>2</b>                         |
| <b>5</b>       | <b>Mountaineering – Basic Camp, Advance Camp / Adventure Activities</b>   | <b>2</b>                         |
| <b>6</b>       | <b>News Reporting / Article Writing / book writing / progress report writing</b>  | <b>1</b>                         |

**Students can earn maximum 06 Extra credits in each semester by his/her participation in the above mentioned activities duly certified by the Head of the institution / Department. This Bonus credit will be used only to compensate loss of credits in academic activities.**

## DETAILED SYLLABUS

### SEMESTER – I

**Course Title:** HISTORY, PRINCIPLES AND FOUNDATION OF PHYSICAL EDUCATION

**Paper Code:** PHE

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

#### **UNIT – I**

Meaning, Definition and Scope of Physical Education. Aims and Objective of Physical Education. Importance of Physical Education in present era. Misconceptions about Physical Education. Relationship of Physical Education with General Education. Physical Education as an Art and Science.

Principles of Physical Education.

#### **UNIT- II**

Biological basis of Physical Education, Growth and development, its principles. Age and gender characteristics, Body Types, Anthropometric measurements.

Psychological basis of Physical Education: Play and Play theories.

Sociological basis of Physical Education, Socialization process, Social nature of men and Physical Activity: Society and culture, Social acceptance and recognition, Social integration and cohesiveness, Sports as cultural heritage of mankind, customs, traditions and sports, competition and cooperation. Leadership.

Philosophical basis of Physical Education, Philosophies of Physical Education: Idealism, Pragmatism, Naturalism, Realism, Humanism, Existentialism.

#### **UNIT- III**

Historical Development of Physical Education in India. Indus Valley Civilization Period. (3250 BC – 2500 BC) Vedic Period (2500 BC – 600 BC) Early Hindu Period (600 BC – 320 AD) and Later Hindu Period (320 AD – 1000 AD) Medieval Period (1000 AD – 1757 AD) British Period (Before 1947) Physical Education in India (After 1947) Contribution of Akhadas and Vyayamshalas .Y.M.C.A. and its contributions. Recent National policy of Sports and Physical education.

#### **UNIT-IV**

Physical Education in Ancient Greece, Rome, Contemporary Germany, Sweden, Denmark and Russia.

Modern perspectives: USA, UK and China.

Career Avenues, National awards, recent awardees and Honours

Major tournaments and Competitions related to various sports/games.

#### **REFERENCES:**

- Bucher, C. A. (n.d.) Foundation of physical education. St. Louis: The C.V. Mosby Co. Deshpande,
- S. H. (2014). Physical Education in Ancient India. Amravati: Degree college of Physical education.
- Mohan, V. M. (1969). Principles of physical education. Delhi: Metropolitan Book Dep.
- Nixon, E. E. & Cozen, F.W. (1969). An introduction to physical education. Philadelphia: W.B. Saunders Co.

**Course Title:** ANATOMY AND EXERCISE PHYSIOLOGY

**Paper Code:** PHE

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

**UNIT-I**

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

**Skeleton:** Axial and Appendicular, gender differences.

**Bone:** definition, structure, types and functions.

**Joints:** types and movement.

**Muscle:** definition, meaning, Structure, types, location and functions. Sliding filament theory.

**UNIT-II**

**Blood:** Constituents of blood and their function. Blood groups and blood transfusion, clotting of blood

**Circulatory system:** Structure of heart and blood vessels. Types of circulation.

Properties of the heart muscle, Terminologies: cardiac cycle, cardiac output, blood pressure: diastolic, systolic. Athletic heart

**The Respiratory system:** Types, organs, structure and mechanism of respiration. Respiratory volumes, VO<sub>2</sub> max. ,oxygen debt, second wind

**UNIT-III**

**Digestive System:** Organs and mechanism of Digestion, nerve control of Digestive system.

**Nervous System:** Parts of Nervous system, functional classification of nervous system.

**UNIT-IV**

Balanced Diet and diet before, during and after competition. Daily energy requirement.

**Bio-energetics:** Utilization of carbohydrate, fats, vitamins, proteins in energy production.

**REFERENCES:**

- Gupta, A. P. (2010). Anatomy and physiology. Agra: Sumit Prakashan.
- Gupta, M. and Gupta, M. C. (1980). Body and anatomical science. Delhi: Swaran Printing Press.
- Guyton, A.C. (1996). Textbook of Medical Physiology, 9th edition. Philadelphia: W.B. Saunders.
- Karpovich, P. V. (n.d.). Philosophy of muscular activity. London: W.B. Saunders Co.
- Lamb, G. S. (1982). Essentials of exercise physiology. Delhi: Surjeet Publication.
- Moorthy, A. M. (2014). Anatomy physiology and health education. Karaikudi: Madalayam Publications. Morehouse,
- L. E. & Miller, J. (1967). Physiology of exercise. St. Louis: The C.V. Mosby Co.
- Pearce, E. C. (1962). Anatomy and physiology for nurses. London: Faber & Faber Ltd.
- Sharma, R. D. (1979). Health and physical education, Gupta Prakashan.
- Singh, S. (1979). Anatomy of physiology and health education. Ropar: Jeet Publications



**Course Title:** HEALTH EDUCATION AND ENVIRONMENTAL STUDIES

**Paper Code:** PHE

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

**UNIT – I**

Health Education: Concept, Dimensions, Spectrum and Determinants of Health. Definition of Health, Health Education, Health Instruction, Health Supervision. Aim, objective and Principles of Health Education. Health Service and guidance instruction in personal hygiene

**UNIT – II**

Health Problems in India: Communicable and Non Communicable Diseases. Obesity, Malnutrition, Adulteration in food, Environmental sanitation, Explosive Population, Personal and Environmental Hygiene for schools. Objective of school health service, Role of health education in schools. Health Services – Care of skin, Nails, Eye health service, Nutritional service, Health appraisal, Health record, Healthful school environment, first- aid and emergency care etc.

**UNIT – III**

Environmental Science: Definition, Scope, Need and Importance of environmental studies. Concept of environmental education, Historical background of environmental education, Celebration of various days in relation with environment. Plastic recycling & probation of plastic bag / cover. Role of school in environmental conservation and sustainable development.

**UNIT – IV**

Natural Resources and related environmental issues: Water resources, food resources and Land resources. Definition, effects and control measures of Air Pollution, Water Pollution, Soil Pollution, Noise Pollution. Management of environment and Govt. policies, Role of pollution control board.

**REFERENCES:**

- Agrawal, K.C. (2001). Environmental biology. Bikaner: Nidhi publishers Ltd.
- Frank, H. & Walter, H., (1976). Turners school health education. Saint Louis: The C.V. Mosby Company.
- Nemir, A. (n.d.). The school health education. New York: Harber and Brothers.
- Odum, E.P. (1971). Fundamental of ecology. U.S.A.: W.B. Saunders Co.

**Course Title:** GAME SPECIALIZATION – 1  
**Paper Code:** PHE

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 0 | 0 | 6 | 4       | 100   |

1. Historical Development of the sports at National and International level. Important Tournament/Competition held at National and International level

2. Fundamental Skills of the sport. Warming Up–General, Specific, Cooling Down, Physiological basis of warming up and cooling down.

3. Tactical Preparation for sports. Strategies and their Applications. Importance of Psychological preparation and its methods.

4. Sports Specific Skill Test. Knowledge of rules and regulations. Duties of official & conduct of official match.

**Practical:**

1. Draft preparation, supplementary to improve fundamental skills.
2. Sport Specific skill test.
3. Test for Motor components.
4. Filling up score sheets.
5. Officiating in competition.(rules and signals)

**Course Title: DRILLS & CALLISTHENICS – I**  
**Paper Code: PHE**

| <b>L</b> | <b>T</b> | <b>P</b> | <b>Credits</b> | <b>Marks</b> |
|----------|----------|----------|----------------|--------------|
| 0        | 0        | 6        | 4              | 100          |

**Free Hand Exercise(Calisthenics)**

Exercise on verbal command with drum and music

**Light Apparatus**

Exercise with dumbbells, laziium on verbal command with drum.

Mass P.T Exercises

**March Past**

Drum Beat, Side drum

Commands, Attention, Stand-at-Ease, Left turn, Right turn, About turn, March time, March, Eyes Right

Flag hoisting, salute, eyes left

**Dumbbells/ Wands/ Hoop/ Umbrella/ Tipri**

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

**Course Title: OLYMPIC MOVEMENT**

**Paper Code: PHE**

| <b>L</b> | <b>T</b> | <b>P</b> | <b>Credits</b> | <b>Marks</b> |
|----------|----------|----------|----------------|--------------|
| 4        | 0        | 0        | 4              | 100          |

**UNIT – I**

Origin of Olympic Movement. Philosophy of Olympic movement. The early history of the Olympic movement. The significant stages in the development of the modern Olympic movement. Educational and cultural values of Olympic movement

**UNIT – II**

Modern Olympic Games o Significance of Olympic Ideals, Olympic Rings, Olympic Torch, Olympic Flag. Olympic Protocol for member countries. Olympic Code of Ethics. Olympism in action. Sports for All

**UNIT – III**

Different Olympic Games. Para Olympic Games. Summer Olympics. Winter Olympics. Youth Olympic Games

**UNIT – IV**

Committees of Olympic Games. International Olympic Committee - Structure and Functions. National Olympic committees and their role in Olympic movement. Olympic commission and their functions. Olympic medal winners of India

**REFERENCES:**

- Osborne, M. P. (2004). Magictree house fact tracker: ancient greece and the olympics: a nonfiction companion to magic tree house: hour of the Olympics. New York: Random House Books for Young Readers.
- Burbank, J. M., Andranovich, G. D. &Heying Boulder, C. H. (2001). Olympic dreams: the impact of mega-events on local politics: Lynne Rienner

**Course Title: FUNDAMENTALS OF COACHING AND OFFICIATING**

**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

### **UNIT-1**

Coaching:- Meaning & definition, Sports training- meaning, definition, aims, objectives, Characteristics and principles. Coach:- Qualification, qualities, characteristics and responsibilities. Warming up, Conditioning, Cooling down --- Meaning, benefits and significance. Fitness:- Meaning and components of physical fitness, motor fitness and health related physical fitness.

Load and Recovery:- Meaning, factors-intensity & volume, judgement of load.Over load:- Meaning and tackling over load. Recovery:- Phases, means and factors affecting recovery

### **UNIT-2**

Training methods:- Development of components of physical fitness and motor fitness through following training methods ( continuous method, interval method, circuit method, fartlek/speed play and weight training). Development of Techniques and Tactics. Psychological preparation of team and individual sports persons. Concept of different training periods:-Periodisation-Preparatory, Competition and Transition periods and their aim and objectives.Preparing coaching schedule – Yearly and Short term.

### **UNIT-3**

Officiating- Meaning and principles. Reasons for poor officiating and their remedies. Duties of officials:- Athletics, Badminton, Basketball, Cricket, Football, Gymnastics, Handball, Hockey,Kabaddi, Kho-Kho and Volleyball.Marking of Track/Field/Court/ground for following: - Athletics, Badminton, Basketball, Cricket, Football, Handball, Hockey, Kabaddi, Kho-Kho and Volleyball.

### **UNIT-4**

Rules and their interpretations of events in Athletics.Rules and their interpretations of larger area games:- Cricket, Football, Handball and Hockey.Rules and their interpretations of small area games:- Badminton, Basketball, Kabaddi, Kho-Kho and Volleyball.

### **REFERENCES:**

- Bunn, J. W. (1968). The art of officiating sports. Englewood cliffs N.J. Prentice Hall.
- Bunn, J. W. (1972). Scientific principles of coaching. Englewood cliffs N. J. Prentice Hall.
- Dyson, G. H. (1963). The mechanics of athletics. London: University of London Press Ltd.
- Dyson, G. H. (1963). The mechanics of Athletics. London: University of London Press Ltd.
- Lawther, J.D. (1965). Psychology of coaching. New York: Pre. Hall.
- Singer, R. N. (1972). Coaching, athletic & psychology. New York: M.C. Graw Hill.

**Course Title: English Literature and Communication**

**Skills- V**

**Course Code: ENG 159 A**

**Total Lectures: 45**

| L | T | P | Credits |
|---|---|---|---------|
| 3 | 1 | 0 | 3       |

**Course Objective:**

- To enhance students' vocabulary and comprehensive skills through prescribed texts.
- To hone students' reading skill.
- To develop literary sensibility
- To polish students' grammar

**Learning Outcomes:**

Students will be able to improve their reading skill; they will have better vocabulary and grammar. They will also be able to critically respond to the literary texts.

**Unit 1**

**Communication Skills**

Verbal and Non-verbal Communication: Concept and Face-to-face Communication (Formal and Informal)  
Interview Skills

**Unit-2**

**Literature**

- A. Guru Nanak:  
(i) As pieces of metal of the same kind melt into one another  
(ii) The body is like a pitcher of soft clay  
(iii) The Simal tree is huge and straight
- B. *Bhagavad-Gita As It Is* : Chapter- 3, (The Eternal Duties of a Human Being/ Karma  
Yog)

Prabhupada, A.C. Bhaktivedanta. *Bhagavad-Gita As It Is*. India: The Bhaktivedanta Book Trust, 2012  
(38<sup>th</sup> Printing). Print.

- C. Swami Vivekanand: 'Work and its Secret'

**Unit 3**

**Grammar**

Unit 82 to 112

Murphy's English Grammar, (Raymond Murphy), 3rd Ed. CUP 2004, Rept. 2005.

**Unit 4**

**Building Advanced Vocabulary**

Synonyms and Antonyms

Sports and Games Terminology

**Course Title: English Literature and Communication  
Skills- V (Lab.)**

**Course Code: ENG 159 B**

**Course Objective:**

- To improve fluency in speaking English.
- To promote interactive skills through Group Discussions and role plays.

**Learning Outcome:** Students will be able to speak in English confidently and fluently. In addition, they will develop a technical understanding of language learning software, which will further help them improve their communicative skills.

### **Unit -1**

#### **Practical Approach to Listening and Speaking**

**Listening:** Throughout the course, listening will be a part of activities at every level and the focus will be to provide the learners with enough samples in order to encourage auditory understanding.

**Speaking:** The students shall be introduced to RP symbols and English Pronunciation dictionary by Daniel Jones. The focus shall be on correct articulation/ production of speech sounds, stress and intonation.

Part-I: Phonetics

Part-II: English Conversations (Unit 1 to 20)

Prescribed Textbook:

- A PRACTICAL COURSE IN SPOKEN ENGLISH By J. K. GANGAL (PHI Private Limited, 2012)

### **Unit-2**

- Basics of Sports Commentary

#### **Instructions:**

1. Each student will prepare a scrap file on any of the topics given by class teacher. Student should be able to justify the contents of his/her Scrap file. Marks will be given for originality, creativity and presentation of thoughts.
2. In the end of semester, viva exam will be conducted. Spoken English will be the focus of exam. Examiner will ask questions related to scrap file and other general (non-technical) topics.
3. Acknowledge all the sources of information in your scrap file.
4. This paper includes only one evaluation in the end term examination.

#### **References:**

##### **Books**

1. Gangal, J. K. *A Practical Course in Spoken English*. India: Phi Private Limited, 2012.
2. Kumar, Sanjay and PushpLata. *Communication Skills*. India: OUP, 2012.

## SEMESTER - II

**Course Title:** YOGA EDUCATION  
**Paper Code:** PHE

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 3 | 0 | 0 | 3       | 75    |

### **UNIT – I**

Introduction o Meaning and Definition of Yoga o Aims and Objectives of Yoga o Yoga in Early Upanisads o The Yoga Sutra: General Consideration o Need and Importance of Yoga in Physical Education and Sports

### **UNIT – II**

Foundation of Yoga o The Astanga Yoga: Yama, Niyama, Asana, Pranayama, Pratyahara, Dharana, Dhyana and Samadhi o Yoga in the Bhagavadgita - Karma Yoga, Raja Yoga, Jnana Yoga and Bhakti Yoga

### **UNIT - III**

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

### **UNIT – IV**

Yoga Education o Basic, applied and action research in Yoga o Difference between yogic practices and physical exercises o Yoga education centers in India and abroad o Competitions in Yogasanas

### **REFERENCES:**

- Brown, F. Y.(2000). How to use yoga. Delhi:Sports Publication.
- Gharote, M. L. &Ganguly, H. (1988). Teaching methods for yogic practices.Lonawala: Kaixydahmoe.
- Rajjan, S. M. (1985). Yoga strentheningofrelexation for sports man. New Delhi:Allied Publishers.
- Shankar,G.(1998). Holistic approach of yoga. New Delhi:Aditya Publishers.
- Shekar,K. C. (2003). Yoga for health. Delhi: KhelSahitya Kendra.



**Course Title: YOGA EDUCATION (PRACTICALS)**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 0 | 0 | 2 | 1       | 25    |

Surya Namaskara,

Pranayams

Corrective Asanas

Kriyas

Asanas

Sitting

Standing

Laying Prone Position,

Laying Spine Position

**Course Title: EDUCATIONAL TECHNOLOGY AND METHODS OF TEACHING IN PHYSICAL EDUCATION**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

### **UNIT – I**

Introduction o Education and Education Technology- Meaning and Definitions o Types of Education- Formal, Informal and Non- Formal education. o Educative Process o Importance of Devices and Methods of Teaching.

### **UNIT – II**

Teaching Technique o Teaching Technique – Lecture method, Command method, Demonstration method, Imitation method, project method etc. o Teaching Procedure – Whole method, whole – part – whole method, part – whole method. o Presentation Technique – Personal and technical preparation o Command- Meaning, Types and its uses in different situations.

### **UNIT – III**

Teaching Aids o Teaching Aids – Meaning, Importance and its criteria for selecting teaching aids. o Teaching aids – Audio aids, Visual aids, Audio – visual aids, Verbal, Chalk board, Charts, Model, Slide projector, Motion picture etc o Team Teaching – Meaning, Principles and advantage of team teaching. o Difference between Teaching Methods and Teaching Aid.

### **UNIT – IV**

Lesson Planning and Teaching Innovations o Lesson Planning – Meaning, Type and principles of lesson plan. o General and specific lesson plan. o Micro Teaching – Meaning, Types and steps of micro teaching. o Simulation Teaching - Meaning, Types and steps of simulation teaching.

### **REFERENCES:**

- Bhardwaj, A. (2003). New media of educational planning. New Delhi: Sarup of Sons.
- Bhatia, & Bhatia, (1959). The principles and methods of teaching. New Delhi: Doaba House.
- Kochar, S.K. (1982). Methods and techniques of teaching. New Delhi: Sterling Publishers Pvt. Ltd.
- Sampath, K., Pannirselvam, A. & Santhanam, S. (1981). Introduction to educational technology. New Delhi: Sterling Publishers Pvt. Ltd.
- Walia, J.S. (1999). Principles and methods of education. Jullandhar: Paul Publishers.

**Course Title: ORGANIZATION AND ADMINISTRATION**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

### **UNIT – I**

Organization and administration. Meaning and importance of Organization and Administration in physical education Qualification and Responsibilities of Physical Education teacher and pupil leader. Planning and their basic principles, Program planning: Meaning, Importance, Principles of program planning in physical education. o Functions of Planning, organizing, staffing, directing, communicating, co-ordination, controlling, evaluating and innovating.

### **UNIT- II**

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

### **UNIT-III**

Facilities, & Time-Table Management o Facilities and equipment management: Types of facilities Infrastructure-indoor, out door. o Care of school building, Gymnasium, swimming pool, Play fields, Play grounds o Equipment: Need, importance, purchase, care and maintenance. o Time Table Management: Meaning, Need, Importance and Factor affecting time table.

### **UNIT-IV**

Competition Organization o Importance of Tournament, o Types of Tournament and its organization structure - Knock-out Tournaments, League or Round Robin Tournaments, Combination Tournament and challenge Tournament. o Organization structure of Athletic Meet o Sports Event Intramurals & Extramural Tournament planning

### **REFERENCES:**

- Broyles, F. J. &Rober, H. D. (1979). Administration of sports, Athletic programme: A Managerial Approach. New York: Prentice hall Inc.
- Bucher, C. A. (1983). Administration of Physical Education and Athletic programme.St. Lolis: The C.V. Hosby Co.
- Kozman, H.C. Cassidy, R. & Jackson, C. (1960).Methods in Physical Education. London: W.B. Saunders Co. Pandey, L.K. (1977). Methods in Physical Education.Delhe: Metropolitan Book Depo.
- Sharma, V.M. & Tiwari, R.H.: (1979). Teaching Methods in Physical Education. Amaravati: Shakti Publication.
- Thomas, J. P.(1967). Organization & administration of Physical Education. Madras: Gyanodayal Press.
- Tirunarayanan, C. &Hariharan, S. (1969). Methods in Physical Education.Karaikudi: South India Press. Voltmer,
- E. F. &Esslinger, A. A. (1979).The organization and administration of Physical Education. New York: Prentice Hall Inc.

**Course Title: GAME SPECIALIZATION – 2**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 0 | 0 | 8 | 4       | 100   |

1. Historical Development of the sports at National and International level. Important Tournament/Competition held at National and International level
2. Fundamental Skills of the sport. Warming Up–General, Specific, Cooling Down, Physiological basis of warming up and cooling down.
3. Tactical Preparation for sports. Strategies and their Applications. Importance of Psychological preparation and its methods.
4. Sports Specific Skill Test. Knowledge of rules and regulations. Duties of official & conduct of official match.

**Practical:**

1. Draft preparation, supplementary to improve fundamental skills.
2. Sport Specific skill test.
3. Test for Motor components.
4. Filling up score sheets.
5. Officiating in competition.(rules and signals)

**Course Title: TRACK AND FIELD-I (RUNNING/THROWING EVENTS)**  
**PAPER CODE: PHE**

| L | T | P | CREDITS | MARKS |
|---|---|---|---------|-------|
| 0 | 0 | 8 | 4       | 100   |

Introduction of events, Brief History

**Rules and Regulations:** Rules according to IAAF

**Equipment's Required and Marking**

**Conditioning:** Specific exercises for conditioning

**Techniques:** Phases of the event / Different Stages of Teaching

**Officiating:** Total number of officials required, Position of officials, Officiating signals, Preparation and filling of Score sheet.

**Marking** of the arena and sector.

**REFERENCES:**

- Shrivastva A.K. How to Coach Discus Throw, Sports Publication,(2006), New Delhi.
- Thani Y R. Athletics, KhelSahitya Kendra (2005),New Delhi,(Hindi version).
- Balayan D. Play and Learn Throwing, KhelSahitya Kendra,(2005),New Delhi.
- SayalMeenu, Teach Yourself Running, PrernaPrakashan,(2005),Delhi.
- NarangPriyanka, Teach Yourself Jumping, PrernaPrakashan,(2004),Delhi
- Shrivastva A.K. How to Coach Long jump, Sports Publication,(2006),New Delhi

**Course Title: CONTEMPORARY ISSUES IN PHYSICAL EDUCATION**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

### **UNIT – I**

Concept of Physical Education and Fitness. Definition, Aims and Objectives of Physical Education, fitness and Wellness. Importance and Scope of fitness and wellness. Modern concept of Physical fitness and Wellness. Physical Education and its Relevance in Inter Disciplinary Context.

### **UNIT – II**

Fitness, Wellness and Lifestyle. Fitness – Types of Fitness and Components of Fitness Understanding of Wellness. Modern Lifestyle and Hypo kinetic Diseases – Prevention and Management. Physical Activity and Health Benefits

### **UNIT – III**

Principles of Exercise Program. Means of Fitness development – aerobic and anaerobic exercises .Exercises and Heart rate Zones for various aerobic exercise intensities. Concept of free weight Vs Machine, Sets and Repetition etc. Concept of designing different fitness training program for different age group.

### **UNIT – IV**

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

Application of Science to Physical Education and Sports. Need of Sports law. Fitness centers, Health club, Recreation club and Adventure sports, Commercialization of sports and sports media .Gender issues in sports. Alternate career in sports

### **REFERENCES:**

- Difiore, J.(1998). Complete guide to postnatal fitness. London:
- A & C Black,.Giam, C.K &The, K.C. (1994). Sport medicine exercise and fitness. Singapore: P.G. Medical Book.
- Mcglynn, G., (1993). Dynamics of fitness. Madison: W.C.B Brown. Sharkey, B. J.(1990). Physiology of fitness, Human Kinetics Book.

**Course Title: SPORTS NUTRITION AND WEIGHT MANAGEMENT**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

### **UNIT – I**

Introduction to Sports Nutrition o Meaning and Definition of Sports Nutrition , Balanced Diet, Basic Nutrition guidelines o Role of nutrition in sports o Factor to consider for developing nutrition plan

### **UNIT – II**

Nutrients: Ingestion to energy metabolism o Carbohydrates, Protein, Fat – Meaning, classification and its function o Role of carbohydrates, Fat and protein during exercise o Vitamins, Minerals, Water – Meaning, classification and its function o Role of hydration during exercise, water balance, Nutrition – daily caloric requirement and expenditure.

### **UNIT – III**

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

### **UNIT – IV**

Steps of planning of Weight Management o Nutrition – Daily calorie intake and expenditure, Determination of desirable body weight o Balanced diet for Indian School Children, Maintaining a Healthy Lifestyle o Weight management program for sporty child, Role of diet and exercise in weight management, Design diet plan and exercise schedule for weight gain and loss

### **REFERENCES:**

- Bessesen, D. H. (2008). Update on obesity. *J ClinEndocrinolMetab*.93(6), 2027-2034.
- Butryn, M.L., Phelan, S., & Hill, J. O.(2007). Consistent self-monitoring of weight: a key component of successful weight loss maintenance. *Obesity*(Silver Spring). 15(12), 3091-3096.
- Chu, S.Y. & Kim, L. J. (2007). Maternal obesity and risk of stillbirth: a metaanalysis. *Am J ObstetGynecol*, 197(3), 223-228.
- DeMaria, E. J. (2007). Bariatric surgery for morbid obesity. *N Engl J Med*,356(21), 2176-2183.
- Dixon, J.B., O'Brien, P.E., Playfair, J. (n.d.). Adjustable gastric banding and conventional therapy for type 2 diabetes: a randomized controlled trial. *JAMA*. 299(3), 316-323.

## Course Title: English Literature and Communication

### Skills VI

Course Code: ENG 160 A

Total Lectures: 45

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 3 | 1 | 0 | 3       | 100   |

#### Course Objective:

- To enhance students' vocabulary and comprehensive skills through prescribed texts.
- To hone students' reading skill.
- To develop literary sensibility
- To polish students' grammar

#### Learning Outcomes:

Students will be able to improve their reading skill; they will have better vocabulary and grammar. They will also be able to critically respond to the literary texts.

### Unit 1

#### Communication Skills

C.V. and Résumé

Creating and Presenting Good Presentations

### Unit 2

#### Literature

D. *Wings of Fire: An Autobiography of APJ Abdul Kalam*

E. *Bhagavad-Gita As It Is* : Chapter- 3, (The Eternal Duties of a Human Being/ Karma Yog)

Prabhupada, A.C. Bhaktivedanta. *Bhagavad-Gita As It Is*. India: The Bhaktivedanta Book Trust, 2012  
(38<sup>th</sup> Printing). Print.

### Unit 3

#### Grammar

Murphy's English Grammar, (Raymond Murphy), 3rd Ed. CUP 2004, Rept. 2005.

Unit 113 to 145

### Unit 4

#### Building Advanced Vocabulary

Words often Confused

Idiomatic Expressions

(Teacher shall cover this topic from *Communication Skills* by Sanjay Kumar and PushpLata, OUP, India, 2011)



**Course Title: English Literature and Communication  
Skills- VI (Lab.)**

**Course Code: ENG 160 B**

**Course Objective:**

- To improve fluency in speaking English.
- To promote interactive skills through Group Discussions and role plays.

**Learning Outcome:** Students will be able to speak in English confidently and fluently. In addition, they will develop a technical understanding of language learning software, which will further help them improve their communicative skills.

Unit -1

**Practical Approach to Listening and Speaking**

Listening: Throughout the course, listening will be a part of activities at every level and the focus will be to provide the learners with enough samples in order to encourage auditory understanding.

Speaking: Revision of RP symbols. The focus shall be on correct articulation/ production of speech sounds, stress and intonation.

- English Conversations (Unit 21 to 50)

Prescribed Textbook:

A PRACTICAL COURSE IN SPOKEN ENGLISH By J. K. GANGAL (PHI Private Limited, 2012)

Unit-2

- Group Discussions
- Movie Clippings

**Instructions:**

1. Each student will prepare a scrap file on any of the topics given by class teacher. Student should be able to justify the contents of his/her Scrap file. Marks will be given for originality, creativity and presentation of thoughts.
2. In the end of semester, viva exam will be conducted. Spoken English will be the focus of exam. Examiner will ask questions related to scrap file and other general (non-technical) topics.
3. Acknowledge all the sources of information in your scrap file.
4. This paper includes only one evaluation in the end term examination.

**References:**

**Books**

1. Gangal, J. K. *A Practical Course in Spoken English*. India: Phi Private Limited, 2012.
2. Kumar, Sanjay and PushpLata. *Communication Skills*. India: OUP, 2012.

### SEMESTER - III

**Course Title: SPORTS TRAINING**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

#### **UNIT – I**

Meaning and Definition of Sports Training. Aim and Objective of Sports Training. Principles of Sports Training. Load, Intensity, Density, Duration and frequency.

#### **UNIT – II**

Training Components

Speed – Mean and Methods of Speed Development . Strength – Mean and Methods of Strength Development. Endurance - Mean and Methods of Endurance Development

.Coordination – Mean and Methods of coordination Development. Flexibility – Mean and Methods of Flexibility Development

#### **UNIT – III**

Training Process

Training Load- Definition and Types of Training Load. Principles of Intensity and Volume of stimulus. Technical Training – Meaning and Methods of Technique Training. Tactical Training – Meaning and Methods of Tactical Training. Strategy.

#### **UNIT – IV**

Training programming and planning

Periodization – Meaning and types of Periodization. Aim and Content of Periods – Preparatory, Competition, Transitional etc. Planning – Training session. Talent Identification and Development

#### **REFERENCES:**

- Dick, W. F. (1980). Sports training principles. London: Lepus Books.
- Harre, D. (1982). Principles of sports training. Berlin: Springer.
- Jensen, R. C. & Fisher, A.G. (1979). Scientific basis of athletic conditioning. Philadelphia: Lea and Febiger, 2nd Edn.
- Matveyev, L.P. (1981). Fundamental of sports training. Moscow: Progress Publishers.
- Singh, H. (1984). Sports training, general theory and methods. Patiala: NSNIS.
- Uppal, A.K., (1999). Sports Training. New Delhi: Friends Publication.

**COURSE TITLE: SPORTS PSYCHOLOGY AND SOCIOLOGY**  
**PAPER CODE: PHE**

| L | T | P | CREDITS | MARKS |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

**Unit -I**

Introduction: Meaning, Importance and scope of Educational and Sports Psychology. General characteristics of Various Stages of growth and development. Types and nature of individual differences; Factors responsible -Heredity and environment. Psycho-sociological aspects of Human behaviour in relation to physical education and sports

**Unit-II**

Sports Psychology: Nature of learning, theories of learning, Laws of learning, Plateau in Learning; & transfer of training. Meaning and definition of personality, characteristics of personality, Dimension of personality, Personality and Sports performance. Nature of motivation: Factors influencing motivation; Motivation and techniques and its impact on sports performance. Mental Preparation Strategies: Attention focus, Self- talk, Relaxation, Imaginary. Aggression and Sports, Meaning and nature of anxiety, Kinds of anxiety. Meaning and nature of stress; Types of stress, Anxiety, Stress, Arousal and their effects on sports performance

**Unit-III**

Meaning, nature and scope of sociology. Definition of sports sociology and sports sociology as a discipline . Sports as a medium of socio-cultural change. Effect of appearance sociability and specialization on sports participation.Sports as social phenomenon and social institution . Historical development of sports in different type of societies . Types of Indian societies and development of sports. . Sports as an element of society . Sports as an element of cultural development. Sports as an art . Sports as a science

**Unit-IV**

Culture : Meaning and Importance. Features of culture, Importance of culture. Effects of culture on people life style. Politics and sports, role of political institutions in sports and need of political skills to govern sports. Role of media in shaping of sports. Economy and sports, role of the economy of the country in the development of sports and games. Hooliganism in sports, violence in sports and its causes. Role of sports in the promotion of National Integration.

**REFERENCES:**

- Ball, D. W. & Loy, J. W. (1975).Sport and social order; Contribution to the sociology of sport.London: Addison Wesley Publishing Co., Inc.
- Blair, J.& Simpson, R.(1962). Educational psychology, New York:McMillan Co. Cratty, B. J.(1968). Psychology and physical activity. Eaglewood Cliffs. Prentice Hall.
- Kamlesh, M.L. (1998). Psychology inphysical education and sport. New Delhi:Metropolitan Book Co.
- Sharma S.R., “Sociological Foundation in Physical Education and Sports”, Friends Publication New Delhi.
- Singh Kawaljeet, “Sociology of sports”, Friends publication, New Delhi
- Singh Bhupinder, “Sports Sociology : An Indian Perspective”, Friends Publication, New Delhi.
- Yobu. A, “Sociology of Sports”, Friends Publication, New Delhi.
- Singh Ajmer et.al, “Essentials of Physical Education”, Kalyani Publishers Ludhiana, Second revised addition, 2008.

**COURSE TITLE: RESEARCH AND STATISTICS  
IN PHYSICAL EDUCATION  
PAPER CODE: PHE**

| L | T | P | CREDITS | MARKS |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

**UNIT-I**

Introduction to Research. Definition of Research. Need and importance of Research in Physical Education and Sports. Scope of Research in Physical Education & Sports. Classification of Research. Research Problem, Meaning of the term, Location and criteria of Selection of Problem, Formulation of a Research Problem, Limitations and Delimitations.

**UNIT-II**

Survey of Related Literature. Need for surveying related literature. Literature Sources, Library Reading o Research Proposal, Meaning and Significance of Research Proposal. Preparation of Research proposal / project. Research Report: A group project is to be undertaken by a small batch of students under the supervision of a teacher, wherein it is expected to survey school facilities of physical education, health assessment programme evaluation, fitness status of the students, staff and other stakeholders etc. and submit the report to the institution.

**UNIT-III**

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

**UNIT- IV**

Statistical Models in Physical Education and Sports. Measures of Central Tendency: Mean, Median and Mode-Meaning, Definition, Importance, Advantages, Disadvantages and Calculation from Group and Ungrouped data. Measures of Variability: Meaning, importance, computing from group and ungroup data. Percentiles and Quartiles: Meaning, importance, computing from group and ungroup data

**REFERENCES:**

- Best, J.W. (1963). Research in education. U.S.A.: Prentice Hall. Bomp,
- T. O. &Haff, G. G. (2009). Periodization: theory and methodology of training, 5th ed. Champaign, IL: Human Kinetics.
- Brown, L. E., &Ferrigno, V. A. (2005). Training for speed, agility and quickness, 2nd ed. Champaign, IL: Human Kinetics.
- Brown, L.E. & Miller, J., (2005). How the training work. In: Training Speed, Agility, and Quickness Champaign, IL: Human Kinetics.
- Carl, E. K., & Daniel, D. A. (1969). Modern principles of athletes training. St. Louis: St. Louis's Mosby Company.
- Clark, H. H., & Clark, D. H. (1975). Research process in physical education. Englewood cliffs, New Jersey: Prentice Hall, Inc.
- Garrett, H.E. (1981). Statistics in psychology and education. New York: VakilsFeffer and Simon Ltd.
- Oyster, C. K., Hanten, W. P., &Llorens, L. A. (1987). Introduction to research: A guide for the health science professional. Landon: J.B. Lippincott Company.
- Thomas, J.R., & Nelson J.K. (2005). Research method in physical activity. U.S.A: Champaign, IL: Human Kinetics Books.

**Course Title: TRACK & FIELD –II(JUMPING EVENTS)**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 0 | 0 | 8 | 4       | 100   |

**Athletics: Jumping Events**

o High Jump (Straddle Roll) o Approach Run, o Take off o Clearance over the bar. o Landing

Introduction of events, Brief History

**Rules and Regulations:** Rules according to IAAF

**Equipment's Required and Marking**

**Conditioning:** Specific exercises for conditioning

**Techniques:** Hang Style.

**Teaching stages:** Approach Run, Take-off, Position in Air Landing and Follow through

**Officiating:** Total number of officials required, Position of officials, Officiating signals and Preparation and filling of Score sheet Marking of 25 meters track with 5mtrs straight (in pair). Marking of standard athletics track

**REFERENCES:**

- Shrivastva A.K. How to Coach Discus Throw, Sports Publication,(2006), New Delhi.
- Thani Y R. Athletics, KhelSahitya Kendra (2005),New Delhi,(Hindi version).
- Balayan D. Play and Learn Throwing, KhelSahitya Kendra,(2005),New Delhi.
- SayalMeenu, Teach Yourself Running, PrernaPrakashan,(2005),Delhi.
- NarangPriyanka, Teach Yourself Jumping, PrernaPrakashan,(2004),Delhi
- Shrivastva A.K. How to Coach Long jump, Sports Publication,(2006),New Delhi

**Course Title: GAME SPECIALIZATION-3**  
**Paper Code: PHE**

| <b>L</b> | <b>T</b> | <b>P</b> | <b>Credits</b> | <b>Marks</b> |
|----------|----------|----------|----------------|--------------|
| 0        | 0        | 8        | 4              | 100          |

1. Historical Development of the sports at National and International level. Important Tournament/Competition held at National and International level

2. Fundamental Skills of the sport. Warming Up–General, Specific, Cooling Down, Physiological basis of warming up and cooling down.

3. Tactical Preparation for sports. Strategies and their Applications. Importance of Psychological preparation and its methods.

4. Sports Specific Skill Test. Knowledge of rules and regulations. Duties of official & conduct of official match.

**Practical:**

1. Draft preparation, supplementary to improve fundamental skills.
2. Sport Specific skill test.
3. Test for Motor components.
4. Filling up score sheets.
5. Officiating in competition.(rules and signals)

**Course Title: SPORTS MEDICINE, PHYSIOTHERAPY AND REHABILITATION**

**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

**UNIT-I**

- Sports Medicine: Meaning, Definition, Aims, Objectives, Modern Concepts and Importance. • Meaning and definition of physiotherapy. Concept of athletic trainer and sports physician.
- Role of physical education teacher / coaches in athlete's care and rehabilitation.
- Team medical care, its concept and approaches. Hygiene in campus and competitions.
- Massage: meaning, physiological effects, points to be considered in massage, types of massage (Effleurage, pressure manipulation, kneading, petrissage, friction, percussion manipulation, hacking, clapping, beating, pounding, and shaking manipulation). Contra indication of massage.
- Therapeutic stretching: Meaning, importance, precautions, indications/ Contra indications.

**UNIT-II**

Posture, definition, concept and fundamental positions (lying, sitting, standing, reading and writing).

- Cause, affects and disadvantage of poor posture and values of good posture.
- Postural Deviations: Meaning types (Kyphosis, Lordosis, scoliosis, Knock-knee, bowlegs and flat-foot) their causes and corrective exercises.
- Various movements: significance, range of motion (ROM), Causes for restrictions.

**UNIT-III**

Common athletic injuries: Sprains, strains, contusions, abrasions and fracture, inflammation: their causes, symptoms, treatment & preventive measures. Concept of prices.

- Drugs and doping: History, definition and classification.
- Role of Physiotherapist, managers, coaches, national and international agencies and social organizations in controlling the drug and doping problems.

**UNIT-IV**

Basic concept of physiotherapeutic technique such as: hydrotherapy, thermotherapy, hot and cold packs,

whirlpool, contrast bath, paraffin bath, infrared, short wave diathermy and ultra sound.

- Indications and contra-indications of each technique.
- Role of ice in treatment of sports injuries.
- Concept of health club, sauna bath, steam bath and health related massage
- Concepts of relaxation.

**REFERENCES:**

- Christine, M. D., (1999). Physiology of sports and exercise. USA: Human Kinetics.
- T.R. Baechle, & R.W. Earle, (Eds.), Essentials of Strength Training and Conditioning (pp. 73-90). Champaign, IL: Human Kinetics.
- David, R. M. (2005). Drugs in sports, (4th Ed).
- Routledge Taylor and Francis Group. Hunter, M. D. (1979). A dictionary for physical educators.
- In H. M. Borrow & R. McGee, (Eds.), A Practical approach to measurement in Physical Education (pp. 573-74). Philadelphia: Lea &Febiger.
- Jeyaprakash, C. S., Sports Medicine, J.P. Brothers Pub., New Delhi, 2003.
- Khanna, G.L., (1990). Exercise physiology & sports medicine. Delhi:Lucky Enterprises.

**Course Title: CURRICULUM DESIGN**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

### **Unit I**

Curriculum: Meaning, historical development, sources of curriculum, Procedures for selecting and organising curricular content. Importance of Curriculum.

Curriculum Design: Meaning.

Types of Curriculum Patterns

Factors Affecting Curriculum

Principles of Planning Curriculum Design

### **Unit II**

Basic Principles for Curriculum Development in Physical Education: Formulating Aims and Objectives,

Selecting curriculum and integration of content.

Preparing instruction materials

Steps in Curriculum development.

Materials of Curriculum, Sources of curriculum materials and Types of journal.

Relationship of Physical Education with other faculties/department.

### **Unit III**

Philosophical, Psychological and Sociological Foundations of Curriculum Planning.

Curriculum Provision: Theory and Practice. Foundation of Education, Curriculum and Pedagogy and School Internship.

Practices introduced at postgraduate level. Innovative courses.

Practical Model to Design a Curriculum.

### **Unit IV**

Curriculum Evaluation: Meaning and definition, purpose of curriculum evaluation, criteria for the evaluation of programme, Evaluation practices in India.

Curriculum Change: Meaning and Types.

Approaches to Curriculum change

Factor affecting curriculum change

Curriculum and Research: Areas and Types of research in curriculum.

### **REFERENCES:**

- A. Mahaboobjan (2013). Curriculum Development in Physical Education: KhelSahitya Kendra, New Delhi.
- Barrow, H. M. (1983). Man and movement: principles of physical education. Philadelphia.
- Lea and Febiger. Bucher, C. A. (1986). Foundation of physical education: St. Louis: The C. V. Mosby & Company.
- MrunaliniTalla (2012). Curriculum Development Perspectives, Principles and Issues: Published by Dorling Kindersley Pvt. Ltd. Licenses of Pearson Education.
- Cassidy, R. (1986). Curriculum development in physical education. New York: Harper & Company.
- Cowell, C.C. & Hazelton, H.W. (1965). Curriculum designs in physical education. Englewood Cliffs: N.J. prentice Hall Inc.



**SEMESTER – IV**

**Course Title: MEASUREMENT AND EVALUATION IN PHYSICAL EDUCATION**

**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

**UNIT- I**

Introduction to Test & Measurement & Evaluation o Meaning of Test & Measurement & Evaluation in Physical Education o Need & Importance of Test & Measurement & Evaluation in Physical Education o Principles of Evaluation

**UNIT- II**

Criteria; Classification and Administration of test o Criteria of good Test o Criteria of tests, scientific authenticity (reliability, objectivity, validity and availability of norms) o Type and classification of Test o Administration of test, advance preparation – Duties during testing – Duties after testing.

**UNIT- III**

Physical Fitness Tests o AAHPER youth fitness test o National physical Fitness Test o Indiana Motor Fitness Test o JCR test o U.S Army Physical Fitness Test, Barrow Motor Ability Test. Oregon Motor Fitness Test.

**UNIT- IV**

Sports Skill Tests o Lockhart and McPherson badminton test & Miller Wall Volley Test ,o Johnson basketball test and Knox Basketball Test o McDonald soccer test & Johnson Soccer test o S.A.I volleyball test, Russel Lange volleyball Test & Brady Volleyball Test o S.A.I Hockey test & Friedel Field Hockey test

**REFERENCES:**

- Bangsbo, J. (1994). Fitness training in football: A scientific approach. Bagsvaerd, Denmark: Ho+Storm.
- Barron, H. M., &Mchee, R. (1997). A practical approach to measurement in physical education. Philadelphia: Lea and Febiger.
- Barron, H.M. &Mchee, R. (1997). A Practical approach to measurement in physical education. Philadelphia: Lea and Febiger.
- Kansal, D.K. (1996). Test and measurement in sports and physical education. New Delhi: D.V.S. Publications.
- Mathews, D.K., (1973). Measurement in physical education, Philadelphia: W.B.SoundersCompnay.
- Pheasant, S. (1996). Body space: anthropometry, ergonomics and design of work. Taylor & Francis, New York.
- Phillips, D. A., &Hornak, J. E. (1979). Measurement and evaluation in physical education. New York: John Willey and Sons.
- Sodhi, H.S., & Sidhu, L.S. (1984). Physique and selection of sports- a kinanthropometric study. Patiala: Punjab Publishing House.

**Course Title: KINESIOLOGY AND BIOMECHANICS**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

#### **UNIT – I**

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

#### **UNIT – II**

Fundamental Concept of Anatomy and Physiology o Classification of Joints and Muscles o Types of Muscle Contraction.Fundamental concepts of following terms- Angle of Pull, All or None Law, Reciprocal Innovation

#### **UNIT – III**

Mechanical Concepts o Force - Meaning, definition, types and its application to sports activities o Lever - Meaning, definition, types and its application to human body. o Newton's Laws of Motion – Meaning, definition and its application to sports activities. o Projectile – Factors influencing projectile trajectory.

#### **UNIT – IV**

Kinematics and Kinetics of Human Movement o Linear Kinematics – Distance and Displacement, speed and velocity, Acceleration o Angular kinematics – Angular Distance and Displacement, Angular Speed and velocity, Angular Acceleration. o Linear Kinetics – Inertia, Mass, Momentum, Friction. o Angular Kinetics – Moment of inertia , Couple, Stability.

#### **REFERENCES:**

- Bunn, J. W. (1972).Scientific principles of coaching. Englewood Cliffs, N.J.: Prentice Hall Inc.
- Hay, J. G. & Reid, J. G.(1982).The anatomical and mechanical basis of human motion. Englewood Cliffs, N.J.: prentice Hall Inc.
- Hay, J. G. & Reid, J. G.(1988).Anatomy, mechanics and human motion. Englewood Cliffs, N.J.: prentice Hall Inc.
- Hay, J. G. (1970).The biomechanics of sports techniques. Englewood Cliffs, N.J.: Prentice Hall, Inc.
- Simonian, C.(1911).Fundamentals of sport biomechanics. Englewood Cliffs, N.J.: Prentice Hall Inc.

**Course Title: TRACK & FIELD –III**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 0 | 0 | 6 | 4       | 100   |

Discus Throw, Javelin, Hammer throw, shot-put o Basic Skills and techniques of the Throwing events o Ground Marking / Sector Marking o Interpretation of Rules and Officiating. o Grip o Stance o Release o Reserve/ (Follow through action) o Rules and their interpretations and duties of officials

Introduction of events, Brief History

**Rules and Regulations:** Rules according to IAAF

**Equipment's Required and Marking**

**Conditioning:** Specific exercises for conditioning

**Techniques:** Parry O Brain and Rotation

**Teaching stages:** Initial Stance, Placement of the shot, T-position, Glide, Power position, Release and Follow through

**Officiating:** Total number of officials required, Position of officials, Officiating signals and Preparation and filling of Score sheet

#### **REFERENCES:**

- Shrivastva A.K. How to Coach Discus Throw, Sports Publication,(2006), New Delhi.
- Thani Y R. Athletics, KhelSahitya Kendra (2005),New Delhi,(Hindi version).
- Balayan D. Play and Learn Throwing, KhelSahitya Kendra,(2005),New Delhi.
- SayalMeenu, Teach Yourself Running, PrernaPrakashan,(2005),Delhi.
- NarangPriyanka, Teach Yourself Jumping, PrernaPrakashan,(2004),Delhi
- Shrivastva A.K. How to Coach Long jump, Sports Publication,(2006),New Delhi

**Course Title: GAME SPECIALIZATION-4**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 0 | 0 | 6 | 4       | 100   |

1. Historical Development of the sports at National and International level. Important Tournament/Competition held at National and International level

2. Fundamental Skills of the sport. Warming Up–General, Specific, Cooling Down, Physiological basis of warming up and cooling down.

3. Tactical Preparation for sports. Strategies and their Applications. Importance of Psychological preparation and its methods.

4. Sports Specific Skill Test. Knowledge of rules and regulations. Duties of official & conduct of official match.

**Practical:**

1. Draft preparation, supplementary to improve fundamental skills.
2. Sport Specific skill test.
3. Test for Motor components.
4. Filling up score sheets.
5. Officiating in competition.(rules and signals)

**Course Title: COMPUTER APPLICATIONS IN PHYSICAL EDUCATION**

**Paper Code: CSA 104**

| <b>L</b> | <b>T</b> | <b>P</b> | <b>Credits</b> | <b>Marks</b> |
|----------|----------|----------|----------------|--------------|
| 4        | 0        | 0        | 4              | 100          |

**UNIT – I**

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

**UNIT – II**

MS Word. Introduction to MS Word. Creating, saving and opening a document. Formatting Editing features Drawing table , page setup, paragraph alignment, spelling and grammar check printing option, inserting page number, graph, footnote and notes

**UNIT – III**

MS Excel. Introduction to MS Excel, Creating, saving and opening spreadsheet, creating formulas , Format and editing features adjusting columns width and row height understanding charts.

**UNIT – IV**

MS Power Point, Introduction to MS Power Point, Creating, saving and opening a ppt. file, format and editing features slide show, design, inserting slide number opicture, graph, table, Preparation of Power point presentations

**REFERENCES:**

- Irtegov, D. (2004). Operating system fundamentals. Firewall Media.
- Marilyn, M.& Roberta, B.(n.d.).Computers in your future. 2nd edition, India: Prentice Hall.
- Milke, M.(2007). Absolute beginner's guide to computer basics. Pearson Education Asia.
- Sinha, P. K. & Sinha, P. (n.d.).Computer fundamentals. 4th edition, BPB Publication.

**Course Title: TEACHING PRACTICE- INTERNSHIP**  
**Paper Code: PHE**

| <b>L</b> | <b>T</b> | <b>P</b> | <b>Credits</b> | <b>Marks</b> |
|----------|----------|----------|----------------|--------------|
| 4        | 0        | 0        | 4              | 100          |

Teaching practices:

10 teaching practice lessons out of which 5 lessons in class-room situation and 5 lessons for out-door activities within premises on the students of B.P.Ed course.

Teaching practices:

10 teaching lesson plans for Racket Sport/ Team Games/ Indigeneous Sports out of which 5 lessons internal and 5 lessons external at school.

**Course Title: THEORY OF SPORTS AND GAMES**  
**Paper Code: PHE**

| L | T | P | Credits | Marks |
|---|---|---|---------|-------|
| 4 | 0 | 0 | 4       | 100   |

### **UNIT-I**

#### **HISTORICAL DEVELOPMENT & OFFICIATING**

- Historical development of the concerned game in India, Asia and world level
- Main tournament organized at national and international levels
- Records/Statistics of the game at World, Olympics, Asia, National.
- Award in the game and list of at least ten players who got these awards
- Play area dimensions and marking.
- Equipment Specifications
- Rules of the Game and their interpretation

### **UNIT - II**

#### **TECHNIQUES (SKILL)& TACTICS AND STRATEGY**

- Classification of Skills
- Sequential explanation of skills
- Various faults in skills, their causes and corrections, types of exercises to develop and consolidate fundamental skills of the game
- Individual, group and team tactics
- Offensive and defensive tactics
- System of Play their tactical training
- Selection of team (Selection Procedure)
- Analysis of Performance in competition

### **UNIT-III (TRACK ANF FIELD)**

#### **HISTORICAL DEVELOPMENT & OFFICIATING**

- Historical development of the concerned game in India, Asia and world level
- Main tournament organized at national and international levels
- Records/Statistics of the game at World, Olympics, Asia, National.
- Award in the game and list of at least ten players who got these awards
- Play area dimensions and marking.
- Equipment Specifications
- Rules of the Game and their interpretation

#### **TECHNIQUES (SKILL) & TACTICS AND STRATEGY**

- Classification of Skills
- Sequential explanation of skills
- Various faults in skills, their causes and corrections, types of exercises to develop and consolidate fundamental skills of the game
- Individual, group and team tactics
- Offensive and defensive tactics
- System of Play their tactical training
- Selection of team (Selection Procedure)
- Analysis of Performance in competition

#### **REFERENCES:**

- Gambetta, Vern, The Athletics Congress's Track and Field Coaching Manual, Lersure Press:
- Guthrie, Mark, Coaching Track and Field Successfully, Human Kinetics: Champaign IL, 2006
- Jarver, Jess, Track and Field Coaching Manual, Rothmans Foundation: Australia, 1987.

**Course Title: SPORTS MANAGEMENT**  
**Paper Code: PHE**

| <b>L</b> | <b>T</b> | <b>P</b> | <b>Credits</b> | <b>Marks</b> |
|----------|----------|----------|----------------|--------------|
| 4        | 0        | 0        | 4              | 100          |

### **UNIT-I**

Nature and Concept of Sports Management. o Progressive concept of Sports management. o The purpose and scope of Sports Management. o Essential skills of Sports Management. o Qualities and competencies required for the Sports Manager. o Event Management in physical education and sports.

### **UNIT-II**

Meaning and Definition of leadership o Leadership style and method. o Elements of leadership. o Forms of Leadership. • Autocratic • Laissez-faire • Democratic • Benevolent Dictator o Qualities of administrative leader. o Preparation of administrative leader. o Leadership and Organizational performance.

### **UNIT-III**

Sports Management in Schools, colleges and Universities. o Factors affecting planning o Planning a school or college sports programme. o Directing of school or college sports programme. o Controlling a school, college and university sports programme. • Developing performance standard • Establishing a reporting system • Evaluation • The reward/punishment system

### **UNIT-IV**

Financial management in Physical Education & sports in schools, Colleges and Universities. o Budget – Importance, Criteria of good budget, o Steps of Budget making o Principles of budgeting

### **REFERENCES:**

- Ashton, D. (1968).Administration of physical education for women. New York: The Ronal Press Cl.
- Bucher, C.A. Administration of physical education and athletic programme. 7th Edition, St. Louis: The C.V. Mosby Co.
- Daughtrey, G. & Woods, J.B. (1976). Physical education and intramural programmes, organisation and administration. Philadelphia U.S.A. : W.B. Saunders Cp.
- Earl, F. Z,& Gary, W. B. (1963).Management competency development in sports and physical education. Philadelphia: W. Lea and Febiger.