

Syllabus for Class XI (Science) 2012-2013
English

Unit - I

HORNBILL

1. The Portrait of a Lady
2. "We're Not Afraid to Die..... if We Can All be together
3. Discovering Tut: The Saga Continues

POETRY

1. The Photograph
2. The Voice of the Rain

SNAP SHORTS:

1. The Summer of the Beautiful white Horse.
2. The Address
3. Ranga's Marriage

NOVEL

1. The Caterville Ghost
2. Chapter 1 to 4

WRITING

Notice, Advertisement Classified, Factual Description, Report Writing Job Application, Letter to the Editor

GRAMMAR

Editing, Rearranging Sentences, Ommiting

UNIT-II

SECTION I : READING - Comprehension, Note Making

SECTION II : WRITING

Display ads, Article Writing, Report Writing, Formal Letters (letters of complaint, enquiry, for order placement) and Unit I, Poster, Job Application and writing skills of the 1st unit.

HORNBILL

6. The Browning Version
8. Silk Road
7. The Adventure

POETRY

1. The voice of the Rain
3. Father to Son
2. Childhood

SNAPSHOTS

6. The Ghat of the only world
8. The Tale of Melon City
7. Birth

PHYSICS

UNIT - I

1. Physical World and Measurement
5. Friction
2. Motion in One dimension
6. Work Energy & Power
3. Motion in two and three dimesnion (Vectors & Projectile Motion)
7. Centre of Mass
4. Laws of Motion

FINAL EXAM

Previous Syllabus of Unit - I

1. Gravitation
2. Kinetic theory & gases
3. Properties of Matter
4. Heat & thermodynamics
5. Oscillations and waves
6. Rotational Motion

CHEMISTRY

UNIT - I

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|--|---|
| 1. Some Basic Concepts of Chemistry (Mole Concept) | 4. Chemical Bonding and molecular structure |
| 2. Structure of Atom | 5. Hydrogen |
| 3. Classification of Elements and Periodicity | 6. Redox reactions |

UNIT - II

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|---------------------|--|
| 1. States of Matter | 5. P-block elements |
| 2. Thermodynamics | 6. Organic Chemistry: Some basic principles and techniques |
| 3. Equilibrium | 7. Hydrocarbons |
| 4. S-Block | 8. Chemical Bonding |
| | 9. Structure of Atom |

BIOLOGY

TERM - I

- Unit II Structure organization in plants & animals
Unit IV Plant Physiology

TERM - II

- Unit III Cell Structure & Function
Unit I Diversity in living world
Unit V Human - Physiology

MATHEMATICS (SCIENCE, COMM & HUM)

UNIT - I

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|---|----------------------------|
| 1. Measurement of angles | 11. Linear Inequations |
| 2. Trigonometric functions | 12. A.P. |
| 3. Graphs of trigonometric functions | 13. Mathematical Reasoning |
| 4. Trigonometric ratio of compound angles | 14. Statistics |
| 5. Transformation formule | |
| 6. Trigonometric ratios of Multiple and sub-multiple angles | |
| 7. Trigonometric equations | |
| 8. Mathematical Induction | |
| 9. Complex Numbers | |
| 10. Quadratic Equation | |

UNIT - II

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|--|---|
| 1. Sets | 8. The Straight lines |
| 2. Relations | 9. The Circle, Parabola, Ellipse, Hyperbola |
| 3. Functions | 10. Introduction to 3-D Coordinate Geometry |
| 4. Arithmetic Progression | 11. Limits & Derivatives |
| 5. Geometric Progressions | 12. Probability |
| 6. Some special series | 13. Permutation & combinations |
| 7. Brief review of cartesian system of rectangular co-ordinates. | 14. Binomial Theorem |

First Term + Previous Syllabus of Unit - I

PHYSICAL EDUCATION THEORY SYLLABUS

- Concept of Physical Education
 - 1.1 Meaning and Definition of physical education its aim and objectives.
 - 1.2 Need and importance of physical education
 - 1.3 Misconceptions about Physical Education & its Relevance in Inter Disciplinary Context
 - 1.4 Philosophies of Physical Education - Idealism, Naturalism, Pragmatism and Humanism
 - 1.5 Fundamental concepts of Biomechanics in Physical Education and Sports - Laws of Motion, Force, Friction and Projectiles.
- Career aspects in Physical Education
 - 2.1 Physical Education as a profession
 - 2.2 Professional Ethics

- 2.3 Physical Education and Career Options
- 2.4 Anenves for Career Preparation
- 2.5 Self Assessment for Career Choices.
3. **Health concepts of Physical Education**
 - 3.1 Role of Physical Education Programme on Individual and family
 - 3.2 Community Health Programme
 - 3.3 Effects of Alcohol, Tobacco and Drugs on Sports Performance.
 - 3.4 Life Style Management and sports - obesity hypertension and stress
4. **Olympic Movement**
 - 4.1 Ancient Olympics
 - 4.2 Modern Olympics
 - 4.3 Olympic Ideals and Objectives
 - 4.4 Values through Olympic Movement - Friendship solidarity, Fair Play and Free of Discrimination
 - 4.5 Olympic Symbols

+ Game

UNIT -II

5. **Sociological Aspects of Physical Education**
 - 5.1 Meaning of Sociology
 - 5.2 Concept of Sports Sociology and its importance
 - 5.3 Games and Sports as Man's cultural Heritage
 - 5.4 Socialization in sports at Home, School and community
 - 5.5 Leadership through Physical Education Programmes.
6. **Measurments in Sports**
 - 6.1 Meaning and its importance in physical education and sports
 - 6.2 Kraushweber Test
 - 6.3 Calculation of BMI
 - 6.4 Calculation of Waist Hip Ratio
 - 6.5 Rock Fort One mile Test. (Content & Adminstration)
 - 6.6 AAPHER Physical Fitness Test
 - 6.7 Measurement of Heart Rate
7. **Physiological Aspects of Physical Education**
 - 7.1 Warming up-General and Specific and its physiological basis.
 - 7.2 Functions and Effects of exercise on Muscular and skeletal systems.
 - 7.3 Functions and effects of exercise on respiratory and circulatory systems.
 - 7.4 Factors affecting the physical fitness components
8. **Changing Trends in Physical Education and Sports**
 - 8.1 Concepts and Principles of Integrated Physical Education
 - 8.2 Concept and Principles of Adapted Physical Education
 - 8.3 Concept and components of occupational health hazards
 - 8.4 Concept and components of health related fitness
 - 8.5 Sports for all
- 5.1 **History of the Game/Sport**
 - 5.2 Latest General Rules of the Game/Sport
 - 5.3 Specifications of Play field and related sports equipments.
 - 5.4 Important Tournaments and Venues
 - 5.5 Proper Sports Gear and its importance
 - 5.6 Sports Personalities
6.
 - 6.1 Fundamental Skills of the Games/Sports
 - 6.2 Specific Exercises of Warm up and conditioning
 - 6.3 Related Sports Terminologies
 - 6.4 Sports Awards
 - 6.5 Common Sports Injuries & its Prevention
 - 6.6 CBSE Sports and its Organisational Setup.