**Telangana Board 11th Syllabus**

**Physics**

1. Physical World
2. Units and Measurement
3. Motion in a Straight Line
4. Motion in a Plane
5. Laws of Motion
6. Work, Energy, and Power
7. System of Particles and Rotational Motion
8. Gravitation
9. Mechanical Properties of Solids
10. Mechanical Properties of Fluids
11. Thermal Properties of Matter
12. Thermodynamics
13. Kinetic Theory
14. Oscillations
15. Waves

**Chemistry**

1. Basic Concepts of Chemistry
2. Structure of Atom
3. Classification of Elements and Periodicity in Properties
4. Chemical Bonding and
5. Molecular Structure
6. States of Matter: Gases and Liquids
7. Organic Chemistry: Some Basic Principles and Techniques
8. Hydrogen
9. Thermodynamics
10. Equilibrium
11. Redox Reactions
12. s-Block Elements
13. Some p-Block Elements
14. Hydrocarbons
15. Environmental Chemistry

**Biology**

1. The Living World
2. Biological Classification
3. Plant Kingdom
4. Animal Kingdom
5. Morphology of Flowering Plants
6. Anatomy of Flowering Plants
7. Structural Organisation in Animals
8. Cell: The Unit of Life
9. Biomolecules
10. Cell Cycle and Cell Division
11. Transport in Plants
12. Mineral Nutrition
13. Photosynthesis in Higher Plants
14. Respiration in Plants
15. Plant - Growth and Development
16. Digestion and Absorption
17. Breathing and Exchange of Gases
18. Body Fluids and Circulation
19. Excretory Products and their Elimination
20. Locomotion and Movement
21. Neural Control and Coordination
22. Chemical Coordination and Integration

**Mathematics**

1. Sets
2. Relations and Functions
3. Trigonometric Functions
4. Principle of Mathematical Induction
5. Complex Numbers and
6. Quadratic Equations
7. Linear Inequalities
8. Permutations and Combinations
9. Binomial Theorem
10. Sequences and Series
11. Straight Lines
12. Conic Sections
13. Introduction to Three-dimensional Geometry
14. Limits and Derivatives
15. Mathematical Reasoning
16. Probability
17. Statistics

**English**

* **Reading Comprehension**
  + Unseen passage and poem reading.
  + Seen passage and poem reading.
* **Creative Writing Skills**
  + Long Question Answer: Write an essay on, discursive, reflective, argumentative, or descriptive topics.
  + Very Long Question Answer: A composition such as a report, article, or speech.
* **Literature Textbooks**
  + Very Short and Long Answer Question: To check the literary, comprehension, appreciation, and drawing inferences in poetry and prose.
  + Long Answer Questions: To check the assessment of events, characters, and episodes.

**Computer Science**

* Computer Fundamentals
* Classification of Computers
* Software Concepts
* System Software
* Operating System
* Utility Software
* Open Source Concepts
* Application Software
* Number System
* Internal Storage Encoding of Characters
* Microprocessor
* Memory Concepts
* Primary Memory
* Secondary Memory
* Input-Output Ports and Connections
* Programming Methodology
* General Concepts
* Problem Solving Methodologies
* Problem Solving
* Introduction to Python or C++
* Getting Started
* Data Types, Variables, and Constants
* Operator and Expressions
* Programming with Python/C++
* Flow of Control
* Introduction to User-defined Function and its Requirements
* Structured Data Type
* User-defined Data Types