

SYLLABUS (INTERNATIONAL SCIENCE SUPREMO OLYMPIAD (ISSO))

- **Class-I**
- About myself, My Body, Keeping Clean, Plants Around, Animal World, My Need, My Neighborhood, Space of Environment, Shelter.
- **Class-II**
- Family and Friends, Plants life, Animals World, Our food, Water sources, Human Body and its Need, My Neighborhood, Transport and communication, Space of Environment, Things we made and do.
- **Class-III**
- Life Around us, My body, Family and Friends, Food, Water, Clothes, Travel and communication, Our World, Our Environment, Shelter.
- **Class-IV**
- The green plants, Animals life, Human body and it Needs, Solid Liquid and Gas, Force work and Energy, Safety first, Space of Environment, Natural Resources.
- **Class-V**
- The World of Animals, Growth and Development in Plants, Food Health and Hygienes, Our Body, Rocks and Minerals, Air and Water, Force, Work and Energy, Safety and First Aid, State of Matter, The moon & Eclipses, Knowing our Environment.
- **Class-VI**
- Food, Materials, The world of the living, Moving things, people and Ideas, Light shadow & Reflection, How Things Work, Natural Resources.
- **Class-VII**
- Food, Materials, The World of Living, Motion & Time, How Things Work, Natural Phenomena, Natural Resources.
- **Class-VIII**
- Food, Materials, The World of Living, Moving things, People and Ideas, Chemical Effects of Electric Current, Natural Phenomena.
- **Class-IX**
- Matter in Our Surrounding, Is Matter Around Us Pure, The Fundamental Unit of Life, Tissues, Motion, Force of Canvas of Motion, Gravitation, Improvement in Food Resources, Atoms and molecules, Structure of Atom, Diversity in Living Organisms, Gravitation, Flotation, Work and Energy, Sound, Natural Resources.
- **Class-X**
- Chemical Reactions and Equations, Acids Bases And Salts, Metals and Non- Metals, Life Processes, Control and Coordination, Electricity, Magnetic Effect of Electric Current, Sources of Energy, Carbon and its compound, Periodic Classification of Element, Control and Condition, Reproduction in Organisms, Heredity and Evolution, Light – Reflection and Refraction, Human Eye and colorful world, Our Environment, Management of Natural Resources.
- **Class-XI**
- **Section-I(Physics & Chemistry):**
- Physics: Units & Measurements, Mechanics, Properties of Matter, Heat & Thermodynamics, Oscillations, Waves. Chemistry: Some Basic Concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular Structure, States of Matter,

Thermodynamics, Equilibrium, Redox Reactions, Hydrogen, The s-Block Elements, Organic Chemistry: Some Basic Principles and Techniques, Hydrocarbons, Environmental Chemistry. Section-II (Mathematics): Sets, Relations and Functions, Principle of Mathematical Induction, Logarithms, Complex Numbers & Quadratic Equations, Linear Inequations, Sequences and Series, Trigonometry, Straight Lines, Conic Sections, Permutations and Combinations, Binomial Theorem, Statistics, Mathematical Reasoning, Limits and Derivatives, Probability, Introduction to 3-D Geometry, Verbal and Non-Verbal Reasoning. OR

- **Section-II(Biology) :**

- Diversity in the Living World, Structural Organization in Plants and Animals, Cell: Structure and Functions, Plant Physiology, Human Physiology.

- **Class-XII**

- Section-I(Physics & Chemistry): Physics: Electricity and Magnetism, Electromagnetic Induction, A.C., EM Waves, Optics, Modern Physics, Solids & Semiconductor Devices, Communication Systems. Chemistry: Solid State, Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry, General Principles and Processes of Isolation of Elements, d & f Block Elements, Coordination Compounds, Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers, Aldehydes, Ketones, and Carboxylic Acids, Amines, Biomolecules, Polymers, Chemistry in Everyday Life. Section-II(Mathematics): Relations and Functions, Inverse Trigonometric Functions, Matrices and Determinants, Continuity and Differentiability, Application of Derivatives, Integrals, Application of Integrals, Differential Equations, Vector Algebra, Three Dimensional Geometry, Probability, Linear Programming, Verbal and Non-Verbal Reasoning. section-II(Biology): Reproduction, Genetics, and Evolution, Biology in Human Welfare, Biotechnology, Ecology.

Points to remember

- 1st level, conducted on the local level in a center picked by the schools
- 2nd level, conducted in February among the top 600 from the level one
- 3rd level, conducted in Delhi, amongst the toppers from level 2.