

ITSE Syllabus 2017

For class 6th

Physics – Force of Energy, Earth and Universe, Light, Shadows & Reflections, Motion and Measurement of distances.

Chemistry – Solid, Liquid and Gas, Natural Resources, Sorting Materials into groups, Separation of Substances and Fibre to Fabric.

Maths – Pictorial representation of data, Measurement, Multiplication and Division, Number System, Basic Geometrical ideas, Integers, Fractions, Decimals, Area and its Boundary.

Biology – Animal and Plant life, Human Body and Health, The Ecosystem, Food and Nutrition.

For class 7th

Physics – Motion and Measurement of distances, Light, Shadows and Reflections, Motion Electricity and Circuits, Fun with Magnets, Heat and Temperature, Wind, Storms and Cyclones.

Chemistry – Water and Air, Changes around us, Animal Fibre, Acids, Bases and Salts.

Maths – Number System, Triangles and Congruence of Triangle, Integers, Fractions and Decimals, Mensuration, Simple Equations, Line and Angles, Rational Numbers, Algebraic Expressions, Exponents and Powers, Data Handling, Ratio and Proportion.

Biology – Garbage in Garbage out, Getting to know about plants, Body Movements, The living organisms and their Surroundings, Nutrition in Plants and Animals, Weather, Climate and Adaptation of animals to Climate.

For class 8th

Physics – Motion and Time, Force and Pressure, Heat and Temperature, Electric Current its effects, Sound And Light.

Chemistry – Acids, Base and Salts, Physical and Chemical Changes, Synthetic Fibres and Plastics, Metals and Non-metals and water.

Maths – Integers, Fractions Decimals, congruence of Triangle, Practical Geometry, Perimeter and Area, Visualizing Solid Shapes, Rational Number, Linear Equations in one Variable, Understanding Quadrilaterals, Squares and Square roots, Cubes and Cube Roots, Exponents and Powers.

Biology – Transportation in Plants and Animals, Respiration in Organisms, Forests – Our Life line, Crop Production and Management, Cell Structure and Functions and Micro-organism.

For class 9th

Physics – Motion, Force and NLM, Sound, Light, Stars and Solar System and Gravitation.

Chemistry – Metals and Non-metals, Fossil Fuels (Coal, Petroleum and Natural Gas), Combustion and Flame, Matter in our Surroundings and Is matter around us pure.

Maths – Linear Equations in One Variable, Understanding Quadrilaterals, Squares and Square roots, Cubes and Cube roots, Algebraic Expressions and Identities, Mensuration, Exponent and Powers, Direct and Inverse Proportions, Factorization, Polynomial, Line and angles and Triangle, Comparing Quantity, Euclid Geometry.

Biology – Crop Production and management, Micro-organism: Friend and Foe, Conservation of Plants and Animals, Reproduction and reaching the age of adolescence, Cell Structure Function, Tissue, Food Production and Management.

For class 10th

Physics – Motion and Force, Work Power and Energy, Gravitation, Sound, Electricity and Magnetic Effects of Current.

Chemistry – Atoms and Molecules, Atomic Structure, Chemical Reaction and Equation, Acid, Base and Salts, metals and Non-metals.

Maths – Number System, Polynomial, Linear Equations in two Variable, Introduction Euclid Geometry, Line , Angles, Triangle-Congruency and Similarity of triangle and quadrilateral, Area of parallelograms and Triangle, Circles, Heron’s Formula, Surface area and volume, Probability, Introduction to trigonometry and Statistics.

Biology – Why do we fall ill?, Natural Resources, Diversity in living Organisms, Life Processes, Control and coordination.

For class 11th

Physics – Physical World and Measurement, Kinematics and Laws and Motion, Work and Energy and Power and System of particles, Gravitation, Rotational Motion.

Chemistry – Some of Basic Concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties, Chemical Bonding and Molecular, Structure, States of matter : Gases and Liquids, Redox Reactions, Hydrogen, S&P block elements.

Maths – Sequence and Series, Linear and Quadratic Inequalities, Quadratic Equations, Complex Numbers, Trigonometric Function, Binomial theorem, Relations & Function.

Biology – Living World, Diversity of Animals, Structural Organization in Plants and Animals (Animals Tissues and Plants Anatomy), Cell Biology (Cell Cycle and Cell Division).