Pre-Nurture & Career Foundation

Study Material Syllabus for CLASS - X CBSE (GJ)

[For English Medium Students Only]

TS	SE	T-	F	1

Foundation Biology-1 Life Processes - Nutrition, Respiration, Transportation, Excretion, Control and Coordination
Foundation Physics-1 Optics: Reflection of Light, Optics: Refraction of Light, The Human Eye & The Colourful World

Foundation Chemistry-1 Chemical Reactions & Equations, Acids, Bases & Salts, Metals & Non-metals

 $Foundation\,Mathematics \hbox{-}1\qquad Real\,Numbers, Polynomials, Pair\,of\,Linear\,Equations\,in\,Two\,Variables, Co-ordinate\,Geometry$

Foundation Mathematics-2 Introduction to Trigonometry, Similar Triangles, Areas Related to Circles, Probability

Foundation SST-1 History: The Rise of Nationalism in Europe, Nationalism in India, The Making of a Global World, The Age of Industrialisation.

 $Geography: Resources and \, Development, Forest \, and \, Wildlife \, Resources, Water \, Resources, Agriculture.$

Civics: Power Sharing, Federalism, Democracy and Diversity, Gender, Religion and Caste.

Economics: Development, Sectors of the Indian Economy.

Foundation English-1 Section A (Grammar): Tenses, Subject-Verb Concord, Modals, Reported Speech, Articles & Determiners, Integrated

Grammar Exercises.

Section B (Writing): Letter Writing, Analytical Paragraph Writing

Section C (Literature): Figures of Speech. FIRST FLIGHT: A Letter To God, Dust Of Snow, Fire And Ice, Nelson Mandela: Long Walk To Freedom, A Tiger in the Zoo, Two Stories About Flying (Part 1 - His First Flight, Part - 2 Black Aeroplane), How to Tell

Wild Animals, The Ball Poem, From the Diary Of Anne Frank, Hundred Dresses-I, Hundred Dresses-II

FOOTPRINTS WITHOUT FEET: A Triumph Of Surgery, The Thief's Story, The Midnight Visitor, A Question of Trust, Footprints

Without Feet

TSET-ATARGET:: NTSE & Olympiads

Advance Biology-1 Life Process - Nutrition, Life Process - Respiration, Life Process - Transportation, Life Process - Excretion, Control and

Coordination, Reproduction in Plants and Animals, Heredity and Evolution, Our Environment, Management of Natural

Resources.

Advance Biology-2 Cell, Tissue, Improvement in Food Resources, Diversity in Living Organisms, Why do we fall ill?

Advance Physics-1 Electricity and Chemical Effects of Current, Magnetic Effects of Electric Current, Light, Sources of Energy, Heat,

Miscellaneous.

 $Ad vance Physics - 2 \\ Motion, Force and NLM, Gravitation, Thrust and Pressure; Work, Energy, Power; Waves and Sound.$

Advance Chemistry-1 Chemical Reactions & Equations, Acids, Bases & Salts, Metals & Non-metals, Carbon and its Compounds, Periodic

Classification of Elements

Advance Chemistry-2 Matter in our surroundings, Is matter around us pure, Atoms and molecules, Structure of atom

Advance Mathematics-1 Linear Equations in Two Variables, Number System, Surds and Indices, Polynomials, Quadratic Equations, Arithmetic

Progression, Coordinate Geometry, Trigonometry and Its Applications, Triangles, Circles and Tangent to the circle, Mensuration of Plane Figures, Mensuration of Solid Figures, Statistics, Probability, Lines and Angles, Quadrilaterals, Area of

Parallelogram and Polygon.

Advance Mathematics-2 Every Day Mathematics: Percentage, Profit, Loss and Discount, Partnership, Mixtures and Alligations, Simple and Compound

 $Interest, Ratio\ and\ Proportion, Time, Speed\ and\ Distance,\ Unitary\ Method, Time\ and\ Work,\ Pipes\ and\ Cisterns,\ Problems\ on\ Proportion,\ Problems\ on\ Problems$

Ages.

Mental Ability-1 Verbal: Series, Logical Sequence of Words, Coding & Decoding, Analogy, Classification, Logical Venn Diagrams,

Mathematical Operations, Direction Sense Test, Alphabet Test, Puzzle Test, Number, Ranking & Time sequence Test, Alpha-Numeric Sequence Puzzle, Inserting The Missing Characters, Calendar, Arithmetical Reasoning, Blood Relations,

Statements-Conclusions, Clock, Data Sufficiency, Sequential Output Tracing.

Mental Ability-2 Non Verbal: Series, Analogy, Classification, Analytical Reasoning, Mirror Images, Water Images, Spotting Out The Embedded

Figures, Completion of Incomplete Pattern, Paper Folding & Paper Cutting, Dice, Cube, Dot Situation, Figure Matrix, Figure

formation, Construction of Shapes & Grouping of Identical Figures.

Advance SST-1 History - Rise of British Rule in India, First World War and Russian Revolution, Movement towards a New World, National

Movements in India, Movement towards Independence, World after 1945, Post Independence India and Movements in India, Movement towards Independence, World after 1945, Post Independence India and Movements in India, Movement towards Independence, World after 1945, Post Independence India and Movements in India, Movement towards Independence, World after 1945, Post Independence India and Movements India, Movement towards Independence, World after 1945, Post Independence India and Movements India, Movement India, Movement

Civics- Framing of the Constitution and its Features, Fundamental Rights, Fundamental Duties and Directive Principles of

State Policy, Organs of Government, Indian Judiciary, Indian Democracy

Geography- India- Location, Geological Structure and Physiography-I, India- Location, Geological Structure and

Physiography-II, Drainage System, Climate, Natural Vegetation, Wildlife, India: Human Life Style, Disaster Management.

Advance SST-2 History- Heritage of India, Cultural Heritage of India: Traditional Handicraft and Fine Arts, Cultural Heritage of India:

Sculpture and Architecture, Literary Heritage of India, India's Heritage of Science & Technology, Places of Indian Cultural

Heritage, Preservation of Our Heritage

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Geography- Natural Resources, Forests and Wildlife Resources, India: Agriculture, India: Water Resources, India: Mineral & Energy Resources, Manufacturing Industries, Transportation, Communication & Trade.

Economics- Economic Development, Economic Liberalisation and Globalisation, Economic problems and Challenges: Poverty and Unemployment, Price Rise and Consumer Awareness, Human Development, Social Problems of India and Challenges, Social Change.

TSET-E1 (E)#TARGET:: FOUNDATION ENGINEERING

Excellent Physics Units and Dimensions, Significant Figures & Errors in Measurement, Vectors, Motion in one dimension, Projectile Motion,

Newton's Laws of Motion, Friction, Work, Energy & Power, Circular Motion, Gravitation, Simple Harmonic Motion, Wave

Motion

Excellent Chemistry General Concepts in Chemistry, States of Matter, Atomic Structure, Periodic Classification of Elements, Chemical Bonding,

Equilibrium, Redox reactions, Basic Concepts of Organic Chemistry.

Excellent Mathematics-1 Sets and Relations, Functions, Quadratic Equation & Expression, Complex Numbers, Logarithm, Trigonometry, Sequences

and series, Binomial Theorem, Permutations and Combinations, Points, Straight Lines, Circles, Parabola, Ellipse, Hyperbola

TARGET:: NMTC ROUND-1

Excellent Mathematics-2 Algebra, Geometry, Number System, Inequalities

TSET-E1 (M)#TARGET::FOUNDATION MEDICAL

Excellent Physics Units and Dimensions, Significant Figures & Errors in Measurement, Vectors, Motion in one dimension, Projectile Motion,

Circular Motion, Newton's Laws of Motion, Friction, Work, Energy & Power, Gravitation, Simple Harmonic Motion, Wave

Motion

Excellent Chemistry General Concepts in Chemistry, States of Matter, Atomic Structure, Periodic Classification of Elements, Chemical Bonding,

Equilibrium, Redox reactions, Basic Concepts of Organic Chemistry.

Excellent Biology Diversity in Living Organisms, Cell, Cell Cycle and Cell Division, Biomolecules, Morphology of Flowering Plants, Anatomy of

Flowering Plants and Animals, Plant Physiology, Animal Physiology - Animal Nutrition, Respiratory System, Circulatory

System, Excretory System, Control and coordination.

Will be dispatched according to choice given by student at the time of enrollment for preparing for Foundation

Engineering or Foundation Medical respectively.

TSET-F2

Foundation Biology-2 How do Organisms Reproduce, Heredity and Evolution, Our Environment, Sustainable Management of Natural Resources

Foundation Physics-2 Electricity, Magnetic Effects of Electric Current, Sources of Energy
Foundation Chemistry-2 Carbon and its Compounds, Periodic Classification of Elements
Foundation Mathematics-3 Quadratic Equations, Arithmetic Progressions, Heights and Distances
Foundation Mathematics-4 Circles, Constructions, Surface Areas and Volumes, Statistics

Foundation Mathematics-4 Circles, Constructions, Surface Areas and Volumes, Statistics Foundation SST-2 History: Print Culture and the Modern World.

Geography: Minerals and Energy Resources, Manufacturing Industries, Lifelines of National Economy.

Civics: Popular Struggles and Movements, Political Parties, Outcomes of Democracy, Challenges to Democracy.

 $Economics: Money \ and \ Credit, Globalisation \ and \ The \ Indian \ Economy, Consumer \ Rights.$

 $Foundation \ English - 2 \\ Section \ A \ (Grammar): Integrated \ Grammar \ Exercises.$

 $Section\,B\,(Writing)\,:\,Letter\,Writing, Analytical\,Paragraph\,Writing$

Section C (Literature): FIRST FLIGHT: Amanda, Animals, Glimpses of India (Part 1 - A Baker from Goa, Part 2 - Coorg, Part 3 - Tea from Assam), Trees, Mijbil the Otter, Fog, How to tell Wild Animals, Madam Rides the Bus, The Tale of Custard the Dragon,

The Sermon at Benares, For Anne Gregory, The Proposal (Play).

FOOTPRINTS WITHOUT FEET: The Making of a Scientist, The Necklace, The Hack Driver, Bholi, The Book That Saved the Earth.

TSET-E2*TARGET:: NMTC FINAL ROUND

Excellent Mathematics-3 Same Topics as in Round-1
* Module will be dispatched to NMTC Round-1 Qualified Students.

TSET-E3**TARGET::NTSESTAGE 2

NTSE Question Bank 1 Mental Ability Test (MAT)

NTSE Question Bank 2 Scholastic Aptitude Test (SAT)

Practicing NTSE Booklet of Sample Papers

^{**} Module will be dispatched to those students who will be selected for Stage-II of the National Talent Search Examination (NTSE).