

[For English Medium Students Only]

TSET-F1

Foundation Biology-1	Life Processes - Nutrition, Respiration, Transportation, Excretion, Control and Coordination
Foundation Physics-1	Electricity, Magnetic Effects of Electric Current, Sources of Energy
Foundation Chemistry-1	Chemical Reactions & Equations, Acids, Bases & Salts, Metals & Non-metals
Foundation Mathematics-1	Real Numbers, Polynomials, Linear Equations in Two Variables
Foundation Mathematics-2	Introduction to Trigonometry, Similar Triangles, Statistics
Foundation SST-1	History: The rise of nationalism in Europe, Nationalism in India Civics: Power Sharing Geography: Resources & Development, Forest & Wildlife Resources Economics: Development
Foundation SST-2	History: The Making of a Global World, The Age of Industrialisation Civics: Federalism, Democracy and Diversity, Gender, Religion & Caste Geography: Water Resources, Agriculture Economics: Sectors of the Indian Economy
Foundation English-1	Section A (Grammar): Subject verb Concord, Tenses, Prepositions, Modal Auxiliaries, Determiners, Active Passive Voice, Reported Speech, Connectors, Integrated Grammar Exercises. Section B (Writing) : Letter Writing, Article Writing, Report Writing, Story 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, 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, Amanda, The Hundred Dresses – I, The 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-A TARGET:: NTSE & Olympiads

Advance Biology-1	Sensations and Responses, Windows of Knowledge, Chemical Messages for Homeostasis, Keeping Diseases Away, Soldiers of Defence, Unravelling Genetic Mysteries, Genetics for the Future, The Paths Traversed by Life
Advance Biology-2	Food for the Living World, Beyond the Sense of Taste, Tissue to Tissue, To Release Energy, To Maintain Homeostasis, The Biology of Movement, Division For Growth and Reproduction
Advance Physics-1	Electricity and Chemical Effects of Current, Magnetic Effects of Current, Light, Sources of Energy, Heat, Electronics, Universe and Space Exploration.
Advance Physics-2	Motion, Force and NLM, Gravitation, Thrust and Pressure, Work, Energy and Power, Waves and Sound
Advance Chemistry-1	Electronic configuration and periodic table, Gas laws and Mole concept, Redox reactions and Rate of chemical reactions, Reactivity series and Electrochemistry, Production of Metals, Carbon and its compounds,
Advance Chemistry-2	Structure of an atom, Chemical bonding, Classification of elements and the periodic table, Non- metals and their compounds, Acids, bases and salts
Advance Mathematics-1	Linear Equations in Two Variables, Number System, Surds and Indices, Polynomials, Decimal Forms, Quadratic Equations, Arithmetic Progression, Coordinate Geometry, Trigonometry and Its Applications, Triangle, 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, Equation of Straight Line.
Advance Mathematics-2	Every Day Mathematics: Percentage, Profit, Loss and Discount, Partnership, Mixtures and Alligations, Simple and Compound Interest, Installment, Ratio and Proportion, Time, Speed and Distance, Unitary Method, Time and Work, Pipes and Cisterns, Problems on 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 & Ordering 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, Figure Matrix, Paper Folding & Paper Cutting, Rule Detection, Construction of Shapes, Dice, Cube, Dot Situation, Grouping of Identical Figures.
Advance SST-1	History: Revolution that influenced the world, World in the 20th Century, British exploitation and resistance, Culture and Nationalism, Struggle and Freedom, India after Independence, Kerala towards modernity. Civics: Public administration, State and political science, Civic Consciousness. Geography: Seasons and Time, In search of the Source of Time, Terrain Analysis Through Maps, Eyes in the Sky- The Data Analysis, India – Land of Diversities, Resource- Weather of India Economics: Human resources and development, Public expenditure and public revenue, financial institutions and Services, Consumer Satisfaction.

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Advance SST-2	History: India- The land of synthesis, Kerala- From 8th to 18th Century, Medieval World, The East and West Era of Exchanges, Medieval India- Concept of Kingship, Society and Economy in Medieval India. Civics : Election and Democracy, Towards British Future, Indian Constitution- Rights and Duties, Geography: For safer Future, Population, Migration and Settlements, Sun- The ultimate source, Signature of Time, By the hands of nature, Ocean and man Economics: Economics growth and Economic Development, Economic System and Economic Policies, National Income
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TSET-E1 (E)#TARGET:: FOUNDATION ENGINEERING

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 Mathematics-1	Sets and Relations, Functions, 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
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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	Optics: Reflection of Light, Optics: Refraction of Light, The Human Eye & The Colorful World
Foundation Chemistry-2	Carbon and its Compounds, Periodic Classification of Elements
Foundation Mathematics-3	Quadratic Equations, Heights and Distances, Constructions, Arithmetic Progressions
Foundation Mathematics-4	Probability, Circles, Co-ordinate Geometry, Areas Related to Circles, Surface Areas and Volumes
Foundation SST-3	History: Print Culture and the Modern World Civics: Political Parties Geography: Mineral and Power, Resources, Manufacturing Industries Economics: Money And Credit, Globalisation & The Indian Economy
Foundation SST-4	Civics: Outcomes of Democracy, Challenges to Democracy Geography: Life Lines of National Economy Economics: Consumer Rights
Foundation English-2	Literature: FIRST FLIGHT : Animals, Glimpses of India (Part 1 – A Baker from Goa, Part 2 – Coorg, Part 3 - Tea from Assam), The Trees, Mijbil the Otter, Fog, Madam Rides the Bus, The Tale of Custard the Dragon, The Sermon at Benares, For Anne Gregory, The Proposal. FOOTPRINTS WITHOUT FEET: The Making of a Scientist, The Necklace, The Hack Driver, Bholi, The Book that Saved the Earth. Grammar: Integrated Grammar Exercises

TSET-E2* TARGET:: NMTC FINAL ROUND

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

TSET-E3** TARGET:: NTSE STAGE 2

NTSE Question Bank 1	Mental Ability Test (MAT)
NTSE Question Bank 2	Language Comprehensive Test (LCT)
NTSE Question Bank 3	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).