

TSET-F1

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-1	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-A TARGET:: 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, Structural Organisation of Animals, Health and Diseases, Breeding and Biotechnology.
Advance Physics-1	Electricity and Chemical Effects of Current, Magnetic Effects of Electric Current, Light, Sources of Energy, Heat, Miscellaneous.
Advance Physics-2	Measurement, Motion, Force and NLM, Gravitation, Thrust and Pressure; Work, Energy, Power; Waves and Sound, Nuclear Physics
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, Chemical Bonding, Applied Chemistry
Advance Mathematics-1	Linear Equations in Two Variables, Number System, Surds and Indices, Polynomials, 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, Set Language, Relations and Functions, Numbers and Sequences, Algebra
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 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: Outbreak of World War I and Its Aftermath, The World between two World Wars, World War II, The World after World War II, Social and Religious Reform Movements in the 19th Century, Early Revolts against British Rule in Tamil Nadu, Anti-Colonial Movements and the Birth of Nationalism, Nationalism: Gandhian Phase, Freedom Struggle in Tamil Nadu, Social Transformation in Tamil Nadu. Civics: Indian Constitution, Central Government, State Government, India's Foreign Policy, India's International Relations Geography: India- Location, Relief and Drainage, Climate, India-Natural Resources, India- Agriculture, Manufacturing Industries, India-Population, Transport, Communication and Trade, Physical Geography of Tamil Nadu, Human Geography of Tamil Nadu. Economics: Gross Domestic Product and its Growth: An Introduction, Globalization and Trade, Food Security and Nutrition, Government and Taxes, Industrial Clusters in Tamil Nadu

[For English Medium Students Only]

Advance SST-2	<p>History : Evolution of Humans and Society - Prehistoric Period, Ancient Civilisations, Early Tamil Society and Culture, Intellectual Awakening and Socio-Economic Changes, The Classical World, The Middle Ages, State and Society in Medieval India, The Beginning of the Modern Age, The Age of Revolutions, Industrial Revolutions, Colonialism in Asia and Africa.</p> <p>Civics: Forms of Government and Democracy, Election, Political Parties and Pressure Groups, Human Rights, Forms of Government, Local Self Government, Road Safety.</p> <p>Geography : Lithosphere I - Endogenetic Processes, Lithosphere II - Exogenetic Processes, Atmosphere, Hydrosphere, Biosphere, Man and Environment, Mapping Skills, Disaster Management: Responding to Disasters.</p> <p>Economics : Understanding Development: Perspectives, Measurement and Sustainability, Employments in India and Tamil Nadu, Money and Credit, Tamil Nadu Agriculture, Migration.</p>
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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, 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
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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	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 SST-2	<p>History : Print Culture and the Modern World.</p> <p>Geography: Minerals and Energy Resources, Manufacturing Industries, Lifelines of National Economy.</p> <p>Civics : Popular Struggles and Movements, Political Parties, Outcomes of Democracy, Challenges to Democracy.</p> <p>Economics: Money and Credit, Globalisation and The Indian Economy, Consumer Rights.</p>
Foundation English-2	<p>Section A (Grammar): Integrated Grammar Exercises.</p> <p>Section B (Writing) : Letter Writing, Analytical Paragraph Writing</p> <p>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).</p> <p>FOOTPRINTS WITHOUT FEET : The Making of a Scientist, The Necklace, The Hack Driver, Bholi, The Book That Saved the Earth.</p>

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	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).