

[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	Nutrition, Respiration, Transportation and Circulation, Excretion , Control and Coordination, Reproduction in Plants and Animals, Heredity and Evolution, Our Environment , Conservation of Natural Resources.
Advance Biology-2	Biodiversity, Cell and its Organisation, Tissue System, Improvement in Food Resources, Disease and its Treatment, Natural Resources and its Pollution.
Advance Physics-1	Electricity and Chemical Effects of Current, Magnetic Effects of Current, Light, Sources of Energy, Heat, Miscellaneous.
Advance Physics-2	Motion, Force and NLM, Gravitation, Thrust and Pressure, Work, Energy, Power, Wave and Sound.
Advance Chemistry-1	Chemical Reactions & Equations, Acid, Bases and Salts, Metals and 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, Co-ordinate Geometry, Trigonometry, 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, Theory of Sets.
Advance Mathematics-2	Every Day Mathematics: Percentage, Profit, Loss and Discount, Partnership, Mixtures and Alligations, Simple and Compound Interest, Instalments, Ratio and Proportion, Time Speed & 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: Mahatma Gandhi and the national movement, Role of Odisha in Indian National Movement, Formation of Independent Odisha state: Various stages of nationalism in Odisha, India as a newly Independent Nation: Till 20th Century, Merger of Odisha with Garjat States, Odisha: Determining definitive Development. Civics : Formation of new states in India after Independence, Constitutional status of Jammu and Kashmir, Constitutional Design, Electoral Politics, Foreign Policy of India Geography: Resources and Development, Forest and Wildlife Resources, Minerals and Energy Resources, Agriculture, Manufacturing Industries Economics: Economic Development-I, Indian Economy; Growth Rate, Consumer Rights, Poverty as a Challenge, Unemployment.

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Advance SST-2	History: First World War, Russian Revolution, The League of Nations, Development of Fascism and Nazism, Second World War, Nationalist Movement in Asia, Nationalist Movement in Africa, Cold War, Formation of Military Blocks: Race for armaments, Non Aligned Movement, Disintegration of Soviet Union, , India's Unity in Diversity and Traditions of India, Architecture, Literature, Science and Technology, Great Heritage of Odisha. Civics: Fundamental Rights, Fundamental Duties and Directive Principles of State Policy, Human Rights, Right to Information (RTI) Act of India, Indian Nationalism and National Integration, Democratic Values, United Nations Geography: India-Size and Location, Physical divisions of India, Climate, Natural Vegetation and Wildlife, Population Economics: Economic Development II, Money and Credit, Sustainable Development.
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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 & Credit, Globalization & 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.

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).