

[For English Medium Students Only]

TSET-F1

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| 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

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| 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 |
| Advance Physics-2 | Motion, Force and NLM, Gravitation, 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, Rational Expressions, 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 |
| 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: The Making of a Global World, The Age of Industrialisation, Cities in the Contemporary World (Work Life and Leisure), Print Culture and the Modern World, Novels, Society and History, The rise of nationalism in Europe, The Nationalist Movement in Indo - China, Nationalism in India Civics: Power Sharing, Federalism, Democracy and Diversity, Gender, Religion & Caste, The Popular Struggle and Movement, Political Parties, Outcomes of Democracy, Challenges to Democracy. Geography: Resources & Development, Forest and Wildlife Resources, Water Resources, Agriculture, Mineral and Power, Resources, Manufacturing Industries, Life Lines of National Economy. Economics: Development, Sectors of the Indian Economy, Money And Credit, Globalisation & The Indian Economy, Consumer Rights |

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| Advance SST-2 | History : The French Revolution, The Russian Revolution, Nazism and Rise of Hitler, Forest Society & Colonialism, Pastoralists in the Modern World, Peasants & Farmers, History and Sport - The Story of Cricket, Clothing - A Social History Civics : Democracy in Contemporary World, What is Democracy, Why Democracy, Constitutional Design, Electoral Politics, Working of Institutions, Democratic Rights Geography: India Size And Location, Physical Features of India, Drainage, Climate, Natural Vegetation and Wildlife, Population Economics: The Story Of Village Palampur, People as resources, Poverty As a Challenge, Food Security in India |
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TSET-E1 (E)#TARGET:: FOUNDATION ENGINEERING

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| 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

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| Excellent Mathematics-2 | Algebra, Geometry, Number System, Inequalities |
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TSET-E1 (M)#TARGET:: FOUNDATION MEDICAL

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| 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

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| 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. |

TSET-E2* TARGET:: NMTC FINAL ROUND

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| 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

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| 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).