Pre-Nurture & Career Foundation

[For English Medium Students Only]

Study Material Syllabus for CLASS - X CBSE (KA)

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, 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, 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, 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, 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 : The Advent of Europeans to India, The Extension of the British Rule, Impact of British Rule in India, Opposition to British Rule in Karnataka, Social and religious reforms, The First War of Indian Independence (1857 A.D), The Freedom struggle, Era of Gandhi and National Movement, India after Independence, The Political Dimensions of the 20th Century.	
	Civics : Problems of India and their remedies, Foreign policy of India, India's Relationship with other countries, World problems and India's role, World Organisations.	
	Sociology : Social Stratification, Labour, Social Movement, Social Problems.	
	Geography : India: Our Motherland, Physical features of India, Indian Monsoon-Seasons and their features, Soils of India,	
	Forests of India, Water Resources, Land use and Agriculture in India, Mineral & Power Resources, Transport system of India and Communication, Major industries of India,, Natural Disasters, Population of India.	
	Economics : $Development,RuralDevelopment,Money$ and $Credit,Public$ Finance and $Budget.$	
	Business Studies : Bank Transactions, Entrepreneurship, Globalisation of Business, Consumer Education and Protection	

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Advance SST-2	History : Christianity and Islam, Medieval India and Political Transition, Religious reformers of India, Vijaynagar and Bahamani Kingdoms, The Moghuls and the Marathas, Bhakti Panth, Europe in the middle ages, Modern Europe, Revolution and Rise of	
	Nation States.	
	Civics : Making of the Indian Constitution, The Union Government, State Government, Judicial system, Indian Election System, Defence of the Nation, National Integration	
	Sociology : Family, Socialisation, Social Change, Community	
	Geography : Our state-Karnataka, Physiographic Divisions, Climate, Soil, Natural Vegetation and Animals of Karnataka, Water Resources Of Karnataka, Land resources of Karnataka, Mineral Resources, Transport, Industries of Karnataka, Major	
	Tourist Centers of Karnataka, Population of Karnataka	
	Economics : Labour and Employment, Natural Resources, Human Resources of India, Poverty and Hunger.	
	Business Studies : Management of Business, Financial Management, Accounting in Business	
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	
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Foundation Chemistry-2 Foundation Mathematics-3	Carbon and its Compounds, Periodic Classification of Elements	
	Quadratic Equations, Arithmetic Progressions, Heights and Distances	
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).	
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TSET-E2*TARGET:: NMTCFINAL ROUND		
Excellent Mathematics-3	Same Topics as in Round-1	
* 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).