

AERONAUTICAL-CET EXAMINATION SYLLABUS 10+2(PCM)

Subject	Topics
General Awareness	Static GK, Science, , Current Affairs
English	Reading Comprehension, Fill in the Blanks, Spellings, Phrases and Idioms, Synonyms and Antonyms, One word Substitution, Sentence Correction
Mathematics	Sets, Relations, Functions, Complex numbers and Quadratic equations, Matrices and Determinants, Permutations and Combinations, Mathematical induction, Binomial theorem and it's simple applications, Sequences and Series, Limit, Continuity and Differentiability, Integral Calculus, Differential equations, Co-ordinate geometry, Straight lines, Conical sections, Circles, Three dimensional geometry, Vector algebra, Statistics and Probability, Measurement of dispersion, Probability, Trigonometry, Mathematical reasoning
Physics	Physics and measurement, Kinematics, Laws of motion, Work, Energy and Power, Rotational motion, Gravitation, Properties of solids and liquids, Thermodynamics, Kinetic theory of gases, Oscillations and waves, Electrostatics, Current electricity, Magnetic effects of current and magnetism, Electromagnetic induction and alternating currents, Electromagnetic waves, Optics, Dual nature of matter and radiation, Atoms and nuclear, Electronic devices, Communication systems
Chemistry	Some basic concepts in chemistry, Chemical thermodynamics, Solutions, Equilibrium, Redox reactions and electrochemistry, Chemical kinetics, Surface chemistry, Classification of elements and periodicity in properties, General principles and processes of isolation of metals, Hydrogen, s - Block elements (alkali and alkaline earth metals), p - Block elements group - 13 to group 18 elements general introduction, d and f - block elements, Co-ordination compounds, Purification and characterization of organic compounds purification, Basic principles of organic chemistry, Hydrocarbons classification, Isomerism, IUPAC nomenclature, General methods of preparation, Properties and reactions, Organic compounds containing Halogens general methods of preparation, properties and reactions, Organic compounds containing Oxygen general methods of preparation, properties, reactions and uses, Organic compounds containing Nitrogen general methods of preparation, properties, reactions and uses, Polymers general introduction and classification of polymers, General methods of polymerization

AERONAUTICAL-CET EXAMINATION SYLLABUS 10+2 Non (PCM)

Subject	Topics
General Awareness	Static GK, Science, , Current Affairs
English	Reading Comprehension, Fill in the Blanks, Spellings, Phrases and Idioms, Synonyms and Antonyms, One word Substitution, Sentence Correction
General Intelligence & Reasoning	Coding Decoding, Analogy, Odd one Out, Directions Sense, Ranking, Non-verbal: Paper Folding & Cutting, Mirror Image, Embedded or Complete the Image, Counting Figure, Words order according to dictionary, Blood relations, Matrix