

IEE Main Syllabus 2018

IEE Main (Paper 1)

Mathematics Syllabus:

Sets, Relations & Functions, Matrices & Determinants, Permutations & Combinations, Complex Numbers & Quadratic Equations, Binomial Theorem, Mathematical Continuity & Differentiability, Three Dimensional Geometry, Co-ordinate Geometry, Statistics & Probability, Vector Induction, Limit, Sequences & Series, Differential Equations, Integral Calculus, Algebra, Mathematical Reasoning and Trigonometry.

Physics Syllabus:

Laws of Motion, Kinematics, Work, Energy & Power, Gravitation, Rotational Motion, Physics & Measurement, Properties of Solids & Liquids, Thermodynamics, Electrostatics, Oscillations & Waves, Kinetic Theory of Gases, Magnetic Effects of Current & Magnetism, Electromagnetic Induction & Alternating Currents, Current Electricity, Optics, Electromagnetic Waves, Dual Nature of Matter & Radiation, Electronic Devices, Atoms & Nuclei, Communication Systems, etc.

Chemistry Syllabus:

Physical Chemistry: Some Basic concepts in Chemistry, States of Matter, Chemical Bonding & Molecular Structure, Atomic Structure, Solutions, Redox Reactions & Electrochemistry, Equilibrium, Chemical Thermodynamics, Chemical Kinetics, Surface Chemistry, etc.

Inorganic Chemistry: General Principles & Process of Isolation of Metals, Hydrogen, p – Block Elements, s – Block Element, Co-ordination Compounds, d – and f – Block Elements, Classification of Elements & Periodicity in Properties, Environmental Chemistry, etc.

Organic Chemistry: Some Basic Principles of Organic Chemistry, Organic Compounds Containing Halogens, Purification & Characterisation of Organic Compounds, Hydrocarbons, Polymers, Organic Compounds Containing Nitrogen, Organic Compounds Containing Oxygen, Bio Molecules, Principles Related to Practical Chemistry, Chemistry in Everyday Life, etc.

JEE Main B.Arch (Paper 2)

Mathematics Syllabus:

Sets, Relations and Functions , Quadratic Equations, Matrices and Determinants, Complex Numbers, Mathematical Induction, Sequences and Series , Limits, Continuity and Differentiability,, Applications of Binomial Theorem, Permutations and Combinations, Integral Calculus, Differential Equation, Vector Algebra, Co-ordinate Geometry, Three Dimensional Geometry, Trigonometry, Probability, Statistics, and Mathematical Reasoning.

Aptitude Test Syllabus:

PART 1:

Awareness of places, persons, Texture and objects related to Architecture and building environment, buildings and materials, Visualizing 3D objects from 2D drawings, Mental Ability (Visual, Numerical and Verbal), Visualizing different sides of 3D objects, Analytical Reasoning.

PART 2:

Three dimensional – perception: Understanding and appreciation of scale and proportion of objects, contrast and harmony. Drawing and designing of geometrical or abstract shapes and patterns in pencil, colour texture, building forms and elements, Transformation of forms both 2 D and 3 D union, subtraction, rotation, development of surface & volumes, Generation of Plan, Creating 2D and 3D compositions using given shapes and forms, Elevations and 3 D views of objects, Sketching of scenes & activities from memory of urban scapes (public space, festivals, market, street scenes, recreational spaces, monuments, etc.), landscape (gardens, trees, river fronts, jungles, plants etc.) and rural life.

AAT Syllabus:

Freehand Drawing: Simple drawing showing the entire object in its right proportion and form, surface texture, and details of its components in suitable scale, relative location, Ordinary domestic or everyday life utilizable objects like equipment, furniture, etc.

Geometrical Drawing: Activities in geometrical drawing containing lines, triangles, angles, quadrilaterals, circles , polygons, elevation (side or front views) of simple solid objects like cones, prisms, splayed surface holders, cylinders, cubes, Study of plan (aerial view), etc.

Three-dimensional Perception: Perception and appreciation of 3D forms with building elements, Visualization through constituting objects in memory, volume color and orientation

Imagination and Aesthetic Sensitivity: Composition activity with given elements, Creativity test through uncommon innovative check with recognizable objects, Context mapping, Logic of color grouping.

Architectural Awareness: General awareness and interest of famous architectural creations – within the country and outside, places and celebrities (architects, designers etc.).