

JAC Chandigarh 2026 Syllabus

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 Nuclei
- Electronic Devices
- Communication Systems

Chemistry

Physical Chemistry

- Some Basic Concepts in Chemistry
- Atomic Structure
- Chemical Bonding and Molecular Structure
- Chemical Thermodynamics
- Solutions
- Equilibrium
- Redox Reactions and Electrochemistry
- Chemical Kinetics

Inorganic Chemistry

- Classification of Elements and Periodicity in Properties
- P-Block Elements
- D- and F-Block Elements
- Coordination Compounds
- Environmental Chemistry

Organic Chemistry

- Purification and Characterisation of Organic Compounds
- Some Basic Principles of Organic Chemistry
- Hydrocarbons
- Organic Compounds Containing Halogens
- Organic Compounds Containing Oxygen
- Organic Compounds Containing Nitrogen
- Biomolecules
- Principles Related to Practical Chemistry

Mathematics

- Sets, Relations, and Functions
- Complex Numbers and Quadratic Equations
- Matrices and Determinants
- Permutations and Combinations
- Binomial Theorem and Its Simple Applications
- Sequences and Series
- Limit, Continuity, and Differentiability
- Integral Calculus
- Differential Equations
- Coordinate Geometry
- Three Dimensional Geometry
- Vector Algebra
- Statistics and Probability
- Trigonometry
- Mathematical Reasoning

Syllabus for B.Arch (Based on JEE Main Paper 2A)

Admissions to B.Arch are based on JEE Main 2026 Paper 2A, which includes Mathematics, Aptitude, and Drawing.

Part I: Mathematics

(Same as B.E./B.Tech Mathematics syllabus above)

Part II: Aptitude Test

- Awareness of persons, buildings, materials, and objects
- Three-dimensional perception
- Visualizing different sides of three-dimensional objects
- Analytical reasoning and mental ability
- Texture related to architecture and built environment

Part III: Drawing Test

- Sketching scenes from memory or observation
- Creating 2D and 3D compositions
- Perspective drawing

Syllabus for Integrated B.E. (Chemical)

Same as B.E./B.Tech syllabus (JEE Main Paper 1).

Syllabus for MBA

Admissions are based on national-level tests like CAT 2025, MAT, or CMAT. Refer to the respective exam syllabi:

- **CAT/MAT/CMAT Common Topics:** Quantitative Ability, Data Interpretation & Logical Reasoning, Verbal Ability & Reading Comprehension.

Specific details available on official exam websites.

Eligibility Criteria (Class 12)

Candidates must have passed Class 12 with Physics, Mathematics, and one of Chemistry/Biology/Biotechnology/Technical Vocational subject with at least 50% aggregate (45% for reserved categories).

Preparation Tips

- Focus on NCERT textbooks for Class 11 and 12.
- Practice previous years' JEE Main papers.
- For B.Arch, practice sketching and aptitude-building exercises.
- Monitor the official JAC Chandigarh website for counseling schedules and cutoffs.
- The syllabus for JEE Main 2026 is expected to remain similar to 2025; check NTA website for updates.