**JEE Main Syllabus 2022**

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| Mathematics | Physics | Chemistry |
| Sets, relations and functions | Physics and measurements | Some basic concepts of chemistry |
| Complex numbers and quadratic equations | Kinematics | States of matter |
| Matrices and determinants | Laws of motion | Atomic structure |
| Permutations and combinations | Work, energy and power | Chemical bonding and molecular structure |
| Mathematical induction | Rotational motion | Chemical thermodynamics |
| Binomial theorem and its simple applications | Gravitation | Solutions |
| Sequences and series | Properties of solids and liquids | Equilibrium |
| Limit, continuity and differentiability | Thermodynamics | Redox reactions and electrochemistry |
| Integral calculus | Kinetic theory of gases | Chemical kinetics |
| Differential equations | Oscillations and waves | Surface chemistry |
| Coordinate geometry | Electrostatics | Classification of elements and periodicity in properties |
| Three dimensional geometry | Current electricity | General principles and process of isolation of metals |
| Vector algebra | Magnetic effects of current and magnetism | Hydrogen |
| Statistics and probability | Electromagnetic induction and alternating currents | S - block elements - alkali and alkaline earth metal,  P - block elements, group 13, 14, 15, 16, 17, 18 elements, D and f block elements |
| Trigonometry | Optics, Dual nature of matter and radiation | Coordination compounds , Environmental chemistry |
| Mathematical reasoning | Atoms and nuclei, Electronic devices | Purification and characteristics of organic compounds, Some basic principles of organic chemistry |
| Communication systems | Experimental skills | Hydrocarbons, Organic compounds containing halogens, oxygen and nitrogen  Polymers, Biomolecules, Chemistry in everyday life, Principles related to chemistry |