**Best books for JEE Main 2022 Physics**

Physics has both theoretical questions and practical problems. Since questions are mostly concept based and direct questions rarely come in this section, the books that will help you in studying, revising and practising the JEE Main physics syllabus,  are listed as follows. Candidates should also know the new pattern for IIT JEE Physics and prepare accordingly.

**Best books for JEE Main Physics**

|  |  |  |
| --- | --- | --- |
| S. No | Name of the book and author | Book will be best for |
| 1 | Concepts of physics (Vol. 1 and 2) by H.C Verma | Quality problems on all topics |
| 2. | Fundamentals of Physics by Halliday, Resnick & walker | Concepts of all the topics |
| 3. | Understanding Physics by D C Pandey (Arihant Publications): Set of books for* Electricity & Magnetism
* Mechanics (Vol. 1 & 2)
* Optics & Modern Physics
* Waves & Thermodynamics
 | Explanation, Derivation and question set of quality solved/unsolved problems |
| 4. | Problems in General Physics by I.E Irodov | Practicing problems |
| 5. | Understanding physics by Freedman and Young | Explanation, theory of all topics |
| 6. | Problems in physics by SS Krotov | Practicing problems |
| 7. | Problems and solution of physics by Shashi bhushan tiwari | For practicing problems and study detailed solutions. |

**Best books for JEE Main 2022 Chemistry**

Most students feel that chemistry is the easiest section of JEE Main exam because of less formulae, calculations involved etc. However, it is a subject that mostly revolves around theories and concepts. For completing the JEE Main Chemistry syllubus, consider NCERT as the bible and plan your study plan around it only. The list that you can use to hone it and build further is given below

**Best books for JEE Main Chemistry**

|  |  |  |
| --- | --- | --- |
| S.No | Name of the book and author | Book will be best for |
| 1. | NCERT Textbooks (for Class XI and XII ) | Many questions are being asked directly from NCERT textbook |
| 2. | Modern Approach to Chemical Calculations by R.C. Mukherjee | For practice of solving Physical Chemistry Numericals |
| 3. | Organic Chemistry by O P Tandon | Good explanation of topics |
| 4. | Concept of Physical Chemistry by P Bahadur | Good explanation and set of quality problems |
| 5. | Concise Inorganic Chemistry by J D Lee | Good reference book on Inorganic Chemistry |
| 6. | Physical Chemistry by P.W. Atkins | Refer to this book once you are done with the above books or want to practise more |
| 7. | Organic Chemistry by Morrison & Boyd | Refer to this book once you are done with the above books or want to practise more |

**Best books for JEE Main 2022 Mathematics**

Mathematics is generally considered the toughest of all subjects and includes comprehensive problems on prescribed topics. Its preparation requires a lot of practice of relevant questions and deep understanding of concepts. Mathematics though is very scoring and if prepared well, you can score full marks, ultimately fetching you a good rank. The reference books for practising the problems of JEE Main mathematics are given here

**Best books for JEE Main Maths**

|  |  |  |
| --- | --- | --- |
| S.No | Name of the book and author | Book will be best for |
| 1. | Objective Mathematics by R D Sharma | Basics of every topic |
| 2. | Plane Trigonometry by S L Loney | Trigonometry |
| 3. | The Elements Of Coordinate Geometry by S L Loney | Coordinate Geometry |
| 4. | Algebra by Dr S K Goyal Arihant Publications | Algebra |
| 5. | Play with Graphs by Amit M Agarwal (Arihant Publications) | For solving problems |
| 6. | Differential Calculus by Amit M Agarwal (Arihant Publications) | Calculus |
| 7. | Integral Calculus by Amit M Agarwal (Arihant Publications) | Calculus |
| 8. | Complete mathematics for JEE Main TMH | For explanation of topics |

**Arm yourself before you battle - JEE Main Preparation Strategy**

Any preparation effort is only worth when it is backed by factors that add value to it. So JEE Main syllabus, exam pattern are areas that have to be well known to all candidates.

**If you know what to study, half your battle is won**

The starting point is knowing the topics to study. Subject wise knowledge with an idea of weightage would be ideal. So make a list of topics you have to study well and start right away. To make that list, you should know the JEE Main 2022 syllabus (given at the end of this article) as well as important topics to study. Note that an equal number of questions are asked from physics, chemistry and mathematics in the exam. Only then you can compile the list of the best books of JEE Main 2022 to study from.

**JEE Main 2022 Important Topics**

With 12 lakh plus students appearing, the exam plan has to be such that you ace it. ‘’The early bird gets the worm, but the wisest bird gets the fastest one’’ rightly said Matshona Dhliwayo. So work smartly and wisely to see the desirable output. To do so, you need a good list of such important topics to study.

The important topics need more emphasis so you need to study them well. A list of such important topics from the previous years are mentioned subject wise below. Use the list of JEE Main best books given at the start for the specified topic to get your preparation right and tight.

**JEE Main 2022 Important Topics**

|  |  |  |
| --- | --- | --- |
| Mathematics | Physics | Chemistry |
| [Coordinate Geometry](https://learn.careers360.com/maths/co-ordinate-geometry-chapter/) | Modern Physics | Transition Elements and [Coordination Chemistry](https://learn.careers360.com/chemistry/co-ordination-compounds-chapter/) |
| [Limits, Continuity and Differentiability](https://learn.careers360.com/maths/limit-continuity-and-differentiability-chapter/) | Heat | [Periodic table and Representative Elements](https://learn.careers360.com/chemistry/classification-of-elements-and-periodic-table-chapter/) |
| [Integral Calculus](https://learn.careers360.com/maths/integral-calculus-chapter/) | [Thermodynamics](https://learn.careers360.com/physics/thermodynamics-chapter/) | [Thermodynamics And Gaseous State](https://learn.careers360.com/chemistry/chemical-thermodynamics-chapter/) |
| [Complex numbers and Quadratic Equation](https://learn.careers360.com/maths/complex-numbers-and-quadratic-equations-chapter/) | [Optics](https://learn.careers360.com/physics/optics-chapter/) | [Atomic Structure](https://learn.careers360.com/chemistry/atomic-structure-chapter/) |
| [Matrices and Determinants](https://learn.careers360.com/maths/matrices-and-determinants-chapter/) | [Current Electricity](https://learn.careers360.com/physics/current-electricity-chapter/) | [Chemical Bonding](https://learn.careers360.com/chemistry/chemical-bonding-and-molecular-structure-chapter/) |
| [Statistics and Probability](https://learn.careers360.com/maths/statistics-and-probability-chapter/) | [Electrostatics](https://learn.careers360.com/physics/electrostatics-chapter/) | [Chemical And Ionic Equilibrium](https://learn.careers360.com/chemistry/equilibrium-chapter/) |
| [Three Dimensional Geometry](https://learn.careers360.com/maths/three-dimensional-geometry-chapter/) | [Magnetics](https://learn.careers360.com/physics/magnetic-effects-of-current-and-magnetism-chapter/) | [Solid State And Surface Chemistry](https://learn.careers360.com/chemistry/surface-chemistry-chapter/) |
| [Vector algebra](https://learn.careers360.com/maths/vector-algebra-chapter/) | - | Nuclear Chemistry And [Environment Chemistry](https://learn.careers360.com/chemistry/environmental-chemistry-chapter/) |

**JEE Main Topics - Easy and Difficult Topics**

Well JEE Main topics can be classified into easy and difficult ones. The big question is how to measure the difficulty levels of the topics in JEE Main 2022? Fret not. Our experts have listed these out based on the previous year JEE Main papers and tons of their experience.

**JEE Main Chemistry Easy and Difficult Topics - Chapter wise**

|  |  |
| --- | --- |
| Easy topics and chapters | [Some basic concepts of chemistry](https://learn.careers360.com/chemistry/some-basic-concepts-in-chemistry-chapter/), [Polymers](https://learn.careers360.com/chemistry/polymers-chapter/), [Environmental chemistry](https://learn.careers360.com/chemistry/environmental-chemistry-chapter/), [Classification of elements and periodic table](https://learn.careers360.com/chemistry/classification-of-elements-and-periodic-table-chapter/) |
| Moderate topics and chapters | [Atomic structure](https://learn.careers360.com/chemistry/atomic-structure-chapter/), [General principles of isolation of metals](https://learn.careers360.com/chemistry/general-principle-and-process-of-isolation-of-metals-chapter/), [Purification and characterisation of organic compounds](https://learn.careers360.com/chemistry/purification-and-characterisation-of-organic-compounds-chapter/), [Chemistry in everyday life](https://learn.careers360.com/chemistry/chemistry-in-everyday-life-chapter/), [Chemical bonding and molecular structure](https://learn.careers360.com/chemistry/chemical-bonding-and-molecular-structure-chapter/), [Solutions](https://learn.careers360.com/chemistry/solutions-chapter/), [Chemical kinetics](https://learn.careers360.com/chemistry/chemical-kinetics-chapter/), [Hydrogen](https://learn.careers360.com/chemistry/hydrogen-chapter/), [Organic compounds containing halogens](https://learn.careers360.com/chemistry/organic-compounds-containing-halogens-chapter/), [S-block elements](https://learn.careers360.com/chemistry/s-block-elements-alkali-and-alkaline-earth-metals-chapter/), [P-block elements](https://learn.careers360.com/chemistry/p-block-elements-chapter/), [d and f block elements](https://learn.careers360.com/chemistry/d-and-f-block-elements-chapter/), [redox reactions](https://learn.careers360.com/chemistry/redox-reaction-and-electrochemistry-chapter/%22%20%5Ct%20%22_blank), [hydrogen](https://learn.careers360.com/chemistry/hydrogen-chapter/) |
| Difficult topics and chapters | [Organic chemistry](https://learn.careers360.com/chemistry/some-basic-principles-of-organic-chemistry-chapter/), [Equilibrium](https://learn.careers360.com/chemistry/equilibrium-chapter/), [Thermodynamic](https://learn.careers360.com/chemistry/chemical-thermodynamics-chapter/), |

**JEE Main Physics Easy and Difficult Topics - Chapter wise**

|  |  |
| --- | --- |
| Easy topics and chapters | [Physical world and measurements](https://learn.careers360.com/physics/physics-and-measurement-chapter/), [Atoms and nuclei](https://learn.careers360.com/physics/atoms-and-nuclei-chapter/), [Electronic devices](https://learn.careers360.com/physics/electronic-devices-chapter/) |
| Moderate topics and chapters | [Kinematics](https://learn.careers360.com/physics/kinematics-chapter/),[Laws of motion](https://learn.careers360.com/physics/laws-of-motion-chapter/), [Work, energy and power](https://learn.careers360.com/physics/work-energy-and-power-chapter/), [Motion of system of particles and rigid body](https://learn.careers360.com/physics/laws-of-motion-chapter/), [Gravitation](https://learn.careers360.com/physics/gravitation-chapter/), [Oscillation and waves](https://learn.careers360.com/physics/oscillations-and-waves-chapter/), [Electrostatics](https://learn.careers360.com/physics/electrostatics-chapter/) |
| Difficult topics and chapters | [Thermodynamics](https://learn.careers360.com/physics/thermodynamics-chapter/), Behaviour of perfect gases, [Kinetic theory](https://learn.careers360.com/physics/kinetic-theory-of-gases-chapter/), [Magnetic effects of current and magnetism](https://learn.careers360.com/physics/magnetic-effects-of-current-and-magnetism-chapter/), [electromagnetic induction and alternating current](https://learn.careers360.com/physics/electromagnetic-induction-and-alternating-currents-chapter/), [Electromagnetic waves](https://learn.careers360.com/physics/electromagnetic-waves-chapter/), [Optics](https://learn.careers360.com/physics/optics-chapter/) |

**JEE Main Mathematics Easy and Difficult Topics - Chapter wise**

|  |  |
| --- | --- |
| Easy topics and chapters | [Mathematical reasoning](https://learn.careers360.com/maths/mathematical-reasoning-chapter/), [Sequences and series](https://learn.careers360.com/maths/sequence-and-series-chapter/), [Sets, Relation and functions](https://learn.careers360.com/maths/sets-relations-and-functions-chapter/), [Principle of mathematical induction](https://learn.careers360.com/maths/mathematical-induction-chapter/), |
| Moderate topics and chapters | linear inequalities, [complex numbers and quadratic equations](https://learn.careers360.com/maths/complex-numbers-and-quadratic-equations-chapter/), [Permutations and combinations](https://learn.careers360.com/maths/permutations-and-combinations-chapter/), [Binomial theorem](https://learn.careers360.com/maths/binomial-theorem-and-its-simple-applications-chapter/), [Vector algebra](https://learn.careers360.com/maths/vector-algebra-chapter/), [Matrices and determinants](https://learn.careers360.com/maths/matrices-and-determinants-chapter/), [integrals](https://learn.careers360.com/maths/integral-calculus-chapter/), application of derivatives, Linear programming, Inverse trigonometric functions |
| Difficult topics and chapters | Conic sections, Introduction to 3D geometry, Probability, Limits and derivatives, straight lines, Trignometric functions, Applications of integrals, [limit, continuity and differentiability](https://learn.careers360.com/maths/limit-continuity-and-differentiability-chapter/), |

**JEE Main Syllabus 2022**

|  |  |  |
| --- | --- | --- |
| 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 nitrogenPolymers, Biomolecules, Chemistry in everyday life,Principles related to chemistry |