

Important Topics and Best Books for IIT JAM Physics Paper 2025

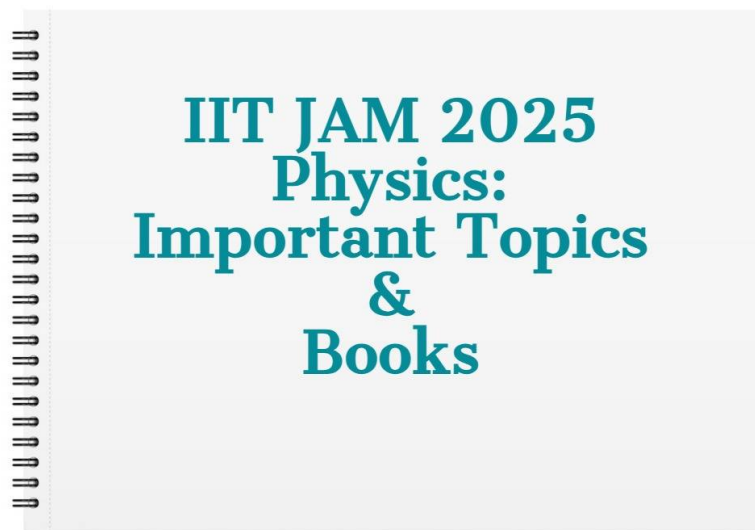


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Are you planning to appear for the IIT JAM 2025 Physics course? Want to know the JAM 2025 Physics important topics and books to boost your preparation? Go through topic-wise books that candidates should study for IIT JAM 2025 preparation for Physics paper which provides important topics.



IIT JAM 2025 Physics Preparation

IIT Delhi, the exam organizing institute has released the the IIT JAM 2025 examination schedule for the academic session 2025-2026. JAM 2025 exam is highly competitive as the exam provides admissions in the MSc and Integrated PhD programmes at IITs and other [JAM 2025 result-](#)



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[sharing institutes](#). Considering the popularity of the exam, aspirants must start their JAM 2025 preparation early to get a seat in their desired institutions.

Also Read:

- [IIT JAM 2025 Seat Matrix; Course Wise Seats at IITs and NITs](#)
- [IIT JAM 2025 Admisison Process](#)

In the JAM 2025 Physics exam preparation journey, the candidate's most important key should be thoroughly going to the specified [JAM 2025 Physics Syllabus](#). After going through the JAM 2025 exam syllabus, candidates can also go through the **JAM 2025 Physics important topics** to gain an extra edge in the examination. To gain in-depth knowledge about subject-specific exam weightage and JAM 2025 Physics important topic details, students must read this article. Also while reading and doing [JAM 2025 preparation](#), please note that the information provided below about the IIT JAM 2025 chapter-wise weightage is tentative and made as per the analysis of the previous year's examinations.

IIT JAM 2025 Physics Important Topics

Candidates who want to appear for the IIT JAM exam for [Physics](#) course admission should formulate a strategy to crack this science entrance exam. Here, candidates must go through important IIT JAM Physics books, identify important topics, and thereafter solve as many [IIT JAM question papers](#) as they can. This is a sure-shot way of getting a good rank in the IIT JAM result. IIT JAM exam will be conducted in multiple shifts across India and as per students the exam was considered to be Moderate.

Candidates can go through important topics that they should study to score well in the [IIT JAM 2025](#) exam in the table mentioned below:



Kinetic theory, Thermodynamics	Mathematical Methods
Simple Oscillators	Mechanics and General Properties of Matter
Oscillations, Waves and Optics	Modern Physics
Electricity and Magnetism	Solid State Physics, Devices and Electronics
Bipolar Junction Transistor (BJT)	Boolean algebra

Candidates can check out the JAM 2025 important topics for other subjects from here:

JAM 2025 Biotechnology Important Topics	IIT JAM 2025 Mathematical Statistics Important Topics	JAM 2025 Mathematics Important Topics
IIT JAM 2025 Chemistry Important Topics	IIT JAM 2025 Geology Important Topics	

Best Books for IIT JAM Physics Preparation 2025

Mentioned below are the topic-wise books that candidates can refer to when they are [preparing for the IIT JAM Physics exam](#).

IIT JAM Physics Books to Study for Kinetic Theory and Thermodynamics Preparation 2025

Books that aspirants should consider reading for the topic, Kinetic



Theory and Thermodynamics, are as mentioned below:

Name of Book	Author
Thermal Physics	Garg, Bansal & Ghosh
Thermal Physics: Heat & Thermodynamics	HP Roy & AB Gupta
Fundamentals of Statistical Mechanics & Thermal Physics	F Reif

IIT JAM Physics Books to Read for Mathematical Methods Prep 2025

Books that aspirants should consider reading for the topic, Mathematical Methods, are as mentioned below:

Name of Book	Author
Mathematical Methods in The Physical Sciences	Mary L Boas
Advanced Engineering Mathematics	Erwin Kreyszig
Vector Analysis: Schaum Series	Murray R Spiegel
Mathematical Physics	HK Dass
Mathematical Methods for Physics & Engineering	Riley, Hobso & Bence

IIT JAM Physics Books to Read for Oscillations, Wave and Optics Prep 2025



Books that aspirants should consider reading for the topic, Oscillations, Wave and Optics, are as mentioned below:

Name of Book	Author
Waves and Oscillations	Brij Lal & N Subrahmanyam
Waves and Oscillations	NK Bajaj
Optics	Hecht, AR Ganesan

IIT JAM Physics Books to Read for Mechanics & General Properties of Matter Prep 2025

Books that aspirants should consider reading for the topic, Mechanics & General Properties of Matter, are as mentioned below:

Name of Book	Author
Classical Mechanics	JC Upadhyaya
An Introduction to Mechanics	Kleppner and Kolenkow
Classical Mechanics & General Properties of Matter	AB Gupta
Classical Mechanics	Herbert Goldstein

Also Read:

- [IIT JAM 2024 Physics Question Paper And Analysis: Check Student Reaction & Expected Cutoff](#)



- [IIT JAM 2024 Chemistry Question Paper And Analysis: Students Reactions and Expected Cutoff](#)

IIT JAM Physics Books to Read for Modern Physics Prep 2025

Books that aspirants should consider reading for the topic, Modern Physics, are as mentioned below:

Name of Book	Author
Introduction to Quantum Mechanics	David J Griffiths
Nuclear Physics	DC Tayal
Quantum Physics	HC Verma

IIT JAM Physics Books to Read for Electricity and Magnetism Prep 2025

Books that aspirants should consider reading for the topic, Electricity, and Magnetism, are as mentioned below:

Name of Book	Author
Foundations of Electricity & Magnetism	B Ghosh
Introduction to Electrodynamics	David J Griffiths

IIT JAM Physics Books to Read for Solid State Physics, Devices and Electronics Prep 2025

Books that aspirants should consider reading for the topic, Solid State Physics, Devices and Electronics, are as mentioned below:

Name of Book	Author
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Solid State Physics	Puri & Babbar
Solid State Physics	SO Pillai
Digital Fundamentals	Floyd

Apart from the above-mentioned books, aspirants can also go through the books mentioned below for [IIT JAM preparation](#) for Physics 2025:

Name of Book	Author
IIT-JAM: MSc (Physics) Previous Papers & Practice Test Papers (Solved)	R Gupta
Solved Papers & Practice Sets IIT JAM (Joint Admission Test for MSc from IITs) – Physics	Arihant Publications
Quantum Mechanics: Concepts and Applications	Nouredine Zettili
Quantum Mechanics (Schaum's Outline Series)	Yoav Peleg, Reuven Pnini, Elyahu Zaarur, Eugene Hecht
Introduction to Solid State Physics	Charles Kittel
Elementary Solid State Physics	Omar
Statistical Physics	Reif
Mathematical Methods for Physicists	Arfken



Classical Mechanics	John R. Taylor
Introduction to Classical Mechanics: With Problems and Solutions	David Morin
Heat and Thermodynamics	Mark Zemansky
Thermodynamics Kinetic Theory and Statistical Thermodynamics	FW Sears, G.L. Salinger
Optics	Ghatak
A Text-Book of Optics	Brijlal and Subhramanyam
Introduction to Electrodynamics	Griffith
Electronic Devices and Circuit	Boylestad / Nashelsky
Nuclear Fission and Cluster Radioactivity: An Energy-Density Functional Approach	MA Hooshyar, Irwin Reichstein, F Bary Malik
Nuclear Physics	V Devanathan
Atomic and Molecular Physics	Raj Kumar

IIT JAM Physics Cut-Off

IIT JAM 2025 exam will be conducted by IIT Delhi on February 2, 2025 at 115 exam centres across the nation. JAM is being conducted for seven



subjects, which are – Mathematical Statistics, [Chemistry](#), Physics, [Mathematics](#), [Economics](#), [Geology](#), and [Biotechnology](#). Among these subjects, the maximum number of registrations take place for the IIT JAM physics paper. Thus, the competition level to make it to the [IIT JAM cutoff](#) for Physics is quite high.

IIT JAM Physics Previous Year Cut-Off

Candidates preparing for the IIT JAM 2025 Physics course can go through the previous year cut off from here:

IIT JAM Physics Previous Year Cut-Off			
Academic Year	General	EWS/ OBC (NCL)	SC/ST/PwD
2024	26.05	23.45	13.03
2023	19.91	17.92	9.96
2022	26.05	23.45	13.03
2021	19.91	17.92	9.96
2020	21.7	19.53	10.85

[Also Read: IIT JAM Cutoff: Check Category / Paper Wise Previous Year Cutoff](#)

Candidates can check out the JAM 2025 syllabus fo other subjects from here:

JAM 2025 Biotechnology Syllabus	IIT JAM 2025 Economics Syllabus	JAM 2025 Mathematics Syllabus
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IIT JAM 2025 Student Reactions

The JAM 2025 exam will be held on February 2, 2025, at various exam centres across the country. For better preparation and knowledge of the JAM exam difficulty level candidates appearing for the IIT JAM 2025 exam can check out the previous year's (2024) student reaction video from here:

Also Read: [Check Year Wise IIT JAM Student Reaction and Difficulty Level from Here](#)

The chapter-wise weightage is based on the number of questions asked from each chapter in previous years' exams. However, it is important to note that the weightage can vary from year to year, so students should not rely solely on the weightage to determine their study plan.

Read More:



- [Last minute preparation tips for IIT JAM 2025](#)
- [IIT JAM 2024 Seat Matrix; Course Wise Seats at IITs and NITs](#)

