



PRADEEP AGARWAL  
ACADEMY  
IIT / MEDICAL



# IIT

FOUNDATION

# 1 YEAR

**Mr. Pradeep Agarwal**, popularly known as '**Pradeep Sir**' to his students is an academican who studied in IIT Kanpur and had secured rank among toppers in IIT JEE. He is author of Physics books for JEE Advanced (in 6 volumes)

In today's competitive world, cracking IIT is becoming increasingly difficult. Competition is increasing day by day and to get an edge, students in the race for IIT entrance exam are advised to start early in lower classes but in a completely relaxed and stress-free environment.

IIT FOUNDATION is a unique and an outstanding program evolved by Mr. Pradeep Agarwal for students of classes 8th, 9th and 10th. The level of knowledge that a student of this program absorbs is so enormous that one believes it only after visiting us or interacting with students already studying with us.

Mr. Pradeep Agarwal, popularly known as 'Pradeep Sir' to his students is an academician who studied in IIT Kanpur and had secured rank among toppers in IIT JEE. He is author of Physics books for JEE Advanced (in 6 volumes) and a recipient of various scholastic achievements while he was a student. He received the NTSE Scholarship, topped in the National Mathematics Olympiad and was the recipient of the Born Mathematician award given by the Ramanujan Society of Born Mathematicians.

For over 13 years, Pradeep Sir worked in corporate sector but his heart and passion had always been in academics and felt the need for deeper analysis of seemingly difficult concepts to explain them in a manner that is easy to understand. Having closely seen the growing competition during the past 20 years, he undertook Research in Physics with a focus on presenting complex topics in a simple and efficient way.

Pradeep Sir developed an interest to revolutionise the existing pattern of study (by making a student learn quickly in the most efficient manner) when his own children were preparing for JEE. Observing lack of any credible Institute(s) that give Concept based Teaching curriculum, Pradeep Sir pioneered IIT Foundation program - a unique course that prepares students to develop strong Conceptual learning giving them a head start in their pursuit of a high rank at JEE.

**Students who had earlier studied in IIT foundation program have now obtained top ranks in JEE Advanced and AIIMS.**



It is the Concept clarity and strong foundation of Science and Maths that forms the bedrock of a planning process in a student's journey to selection to IITs

As a first step, the student is advised to follow his/her passion and decide to make a career in the area of strength. If one is good at mathematics and have a logical reasoning and scientific bent of mind, then he/she is a candidate to undertake IIT Foundation program. An outstanding feature of this program is that it is ensured that a student develops a passion and enjoy every moment of the learning process in the journey to success.

Since the curriculum in IIT Foundation program is Topics based, it's not mandatory for the student to complete 10th Grade before they start learning higher concepts for JEE Advanced in Grade 11th. The uniqueness of the program is the Teaching style of Pradeep Sir, as he simplifies the most complex topics of Maths and Science to enable students of 8th to 10th easily get a grasp of seemingly difficult problems.

The methodology in IIT foundation program is to treat every student individually and this methodology is delicately nurtured in the most systematic and efficient manner according to one's individual need. So, whether the student is a fast learner or slow, he or she easily adapts to a certain methodology of learning if the exposure to knowledge is given in a scientific manner.

Students aspiring for High Rank in JEE can develop strong fundamentals using articulately designed study material (available only to Students enrolled in IIT Foundation program) which then propels the student to be prepared for mastering other 6 books Authored by Pradeep Sir covering Core concepts required for excelling in JEE Advanced.

Through his years of research, the expertise developed by Pradeep Sir makes students absorb the fundamental concepts of Science and Mathematics in a very efficient manner.

Analytical skills are sharpened and the students gain confidence to creatively resolve complex and tricky problems at a very fast pace.

It is the power of Pradeep Sir's teaching methodology that students of class 8th, 9th and 10th are able to complete NCERT syllabus of classes 11th and 12th and that too without any pressure but enjoying every moment of their learning process. These students now already have a very strong foundation to excel and undoubtedly be among toppers in various competitive exams that they would face in future.

Few students of class 10th have even completed most of the portions of IIT syllabus and while in class 10th itself, they have already attained the confidence and skill to solve IIT problems of highest complexity level. This also helps them to qualify the coveted KVPY, NTSE and various Olympiad examinations.

# TIPS FROM PRADEEP SIR ON HOW TO PREPARE FOR JEE

In today's competitive world, cracking IIT is becoming increasingly difficult. Competition is increasing day by day and to get an edge, students in the race for IIT entrance exam are advised to start early in lower classes but in a completely relaxed and stress-free environment. If one prepares in a systematic and planned manner, the journey to IIT can be real fun. Based on my experience in this field, I would like to offer some tips on how to crack JEE Advanced.



## IDENTIFY YOUR STRENGTH

You must follow your passion and make a career in the area of your strength. Cracking IIT may not be everyone's cup of tea. If you are good at mathematics and have a logical reasoning and scientific bent of mind, then you may be a candidate for IIT.



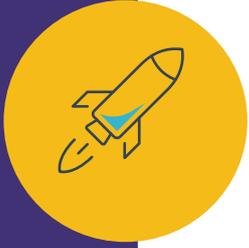
## EVALUATION BEFORE STARTING

In case you are not sure whether you will be able to cope with the required standards for IIT preparation, you may go for an evaluation before you start. For this you may contact Pradeep Agarwal Academy where you will receive a professional guidance on this aspect.



## WHEN TO START PREPARATION

When it comes to IIT preparation, the earlier you start, the better. Though it may be alright to start in class 11th, but I would personally recommend to start in class 9th or may be in class 8th which gives the student a phenomenal edge over others. However, it is important to study at your own individual pace while enjoying every moment of it.



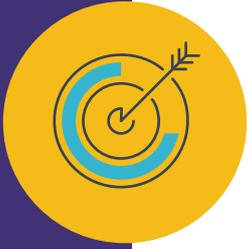
## **IIT PREPARATION IS FUN**

Be relaxed and take it easy. If your approach and planning is proper, believe me, IIT preparation is fun. What is required is your own conviction, motivation, professional guidance, simple tools for solving problems fast and immediate clarification of doubts as they come. Be assured, you will enjoy your preparation like a game. Working hard and striving for excellence will become your passion.



## **WORK SMARTER RATHER THAN JUST HARDER**

It is the Quality over Quantity which is more important. Studying with concentration and analysing the principles and concepts with a clear mind will bring in efficiency and you will be able achieve the same targets in much less time.



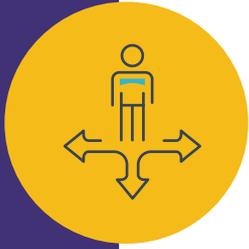
## **ACCURACY**

You must solve a problem correctly the very first time. There is no room for an error as this would severely affect your rank. So, don't rush and skip steps. Note that solving problems accurately becomes our habit which can only be inculcated by practice. Accuracy can never be compromised with speed.



## **KEEP FORMULAE AND CONCEPTS HANDY FOR EASY REFERENCE**

I tell students not to put oneself under pressure in memorising formulae. Just keep them handy for easy reference. As you keep practicing problems, you will experience that with continued usage of formulae and concepts, they easily become your own property.



## **FOCUS ON WAY TO SOLVE FAST**

To obtain a good rank in IIT, we need to solve problems fast and accurately. A better approach to increase Speed is to solve a Problem in a relaxed manner and not use a long method and then hurriedly skipping steps. Thinking of an alternative approach to solve the same problem during practice assignments is my suggestion.



## **DO CONTINUOUS EFFORT AND MAKE IT A HABIT**

High Rankers in JEE Advanced not only study Physics, Chemistry and Maths with same focus but also make continuous and repeated efforts throughout their preparation.



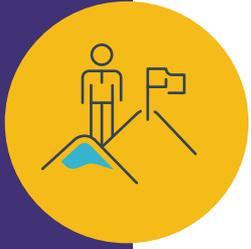
## **DIVIDE PREPARATION IN DIFFERENT LEVELS**

You must solve a problem correctly the very first time. There is no room for an error as this would severely affect your rank. So, don't rush and skip steps. Note that solving problems accurately becomes our habit which can only be inculcated by practice. Accuracy can never be compromised with speed.



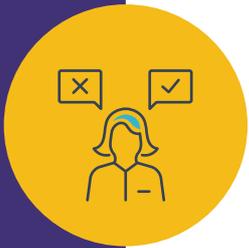
## **MAKE YOUR OWN SHORT NOTES**

This is a very useful technique for many reasons. Firstly, making notes automatically brings in a lot of concentration. Secondly, you generally write only after giving a sufficient thought and analysis. Finally, these are your own notes. They help you in your quick revision.



## **DON'T COMPARE WITH OTHERS AND DON'T FOLLOW OTHERS**

Concentrate on your studies. Don't worry about what others do and don't get influenced by others. Everyone is different and has a different way of grasping and presenting things. Be focused on your own target.



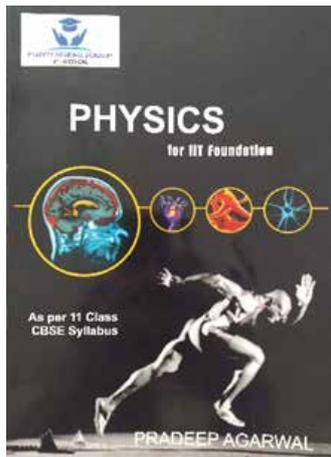
## **ELIMINATE YOUR PERSONAL DISTRACTIONS AS YOU STUDY**

You have already jumped into a mad competitive world; now you have to be religiously disciplined. Though (as I have said before) the preparation for IIT is fun and the kick that you get out of solving tough problems automatically makes you disciplined, but smart phones, social media like Facebook, etc. can be a big distraction. Remove them from your life, at least temporarily.



So, on a concluding note I would say that success is no accident and cracking JEE is not all that difficult. Just be sincere, dedicated, smart and most of all, love what you are doing. Success will be yours.

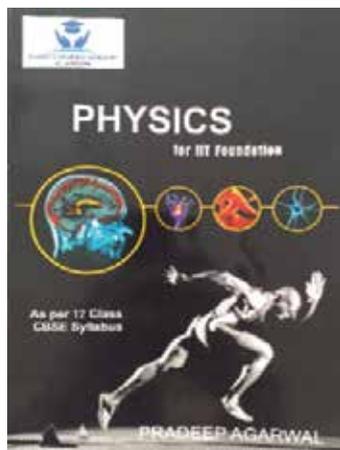
$$\text{SUCCESS} = \begin{cases} \text{HARD WORK (50\%)} \\ \text{SMART WORK (30\%)} \\ \text{LUCK (20\%)} \end{cases}$$



## PHYSICS for IIT FOUNDATION – 1

Covers Entire syllabus of  
Class 11 NCERT

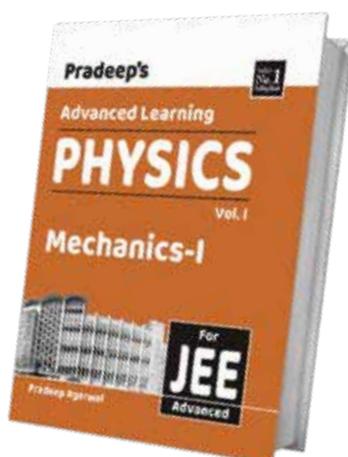
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## PHYSICS for IIT FOUNDATION – 2

Covers Entire syllabus of  
Class 12 NCERT

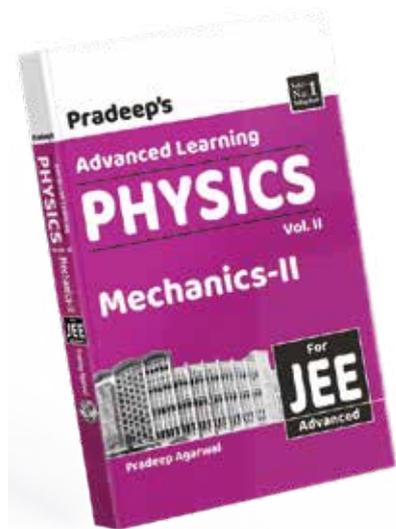
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## Mechanics – I – Vol I

Covers Units, Dimensions,  
Errors, Vectors, Kinematics,  
Laws of Motion, Work, Energy  
and Power

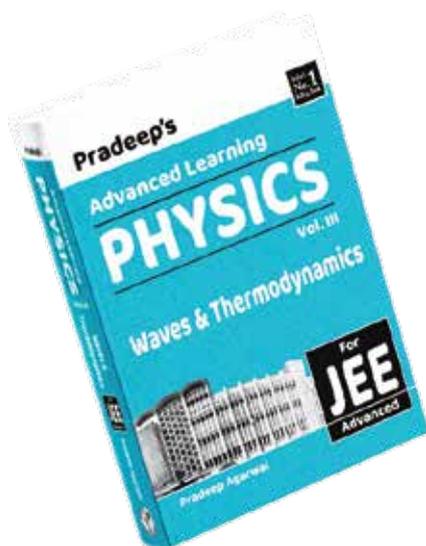
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## Mechanics –II – Vol II

Covers Centre of Mass, Collisions, Rotation Motion, Gravitation, Solids and Fluid Mechanics

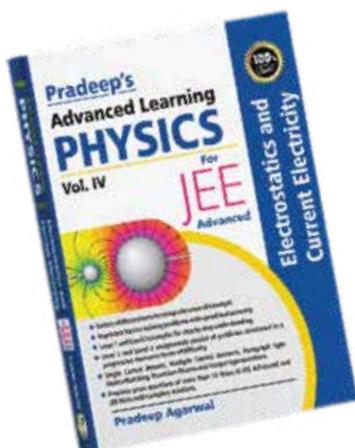
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## Waves & Thermodynamics – Vol III

Covers Simple Harmonic Motion, Wave Motion, Thermal Properties of Matter and Thermodynamics

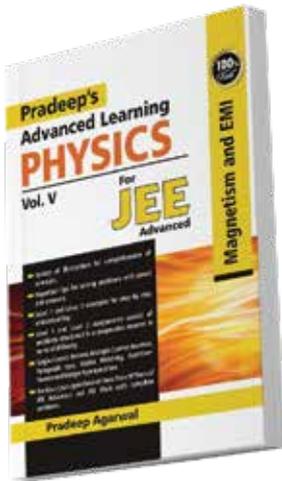
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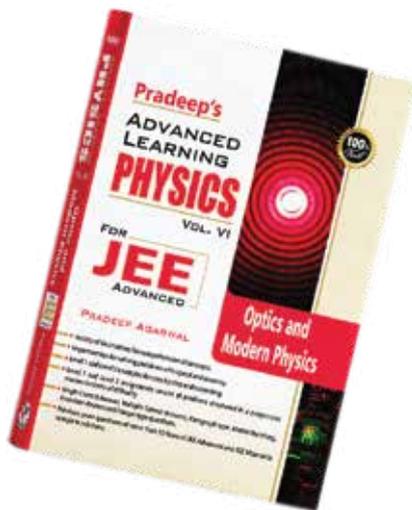
## Electrostatics and Current Electricity – Vol IV

Covers Electric Field and Potential, Electric Current and Capacitors

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**Magnetism and EMI – Vol V**  
Covers Moving Charges & Magnetism, Electromagnetic Induction and Alternating Current....



**Optics and Modern Physics – Vol VI**  
Covers Geometrical Optics, Wave Optics, Atomic Physics, Nuclear Physics, Photoelectric Effect and X-Rays

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