



# IIT JEE Course Document

## What is IIT JEE?

The Indian Institute of Technology Joint Entrance Examination (IIT JEE) is one of the most prestigious and competitive engineering entrance exams in India. It is conducted annually in two stages:

1. JEE Main - Qualifies students for admission to NITs, IIITs, and other centrally funded institutions.
2. JEE Advanced - Opens the gateway to the IITs and top-tier engineering institutions.

## Why is IIT JEE Important?

- Gateway to Premier Institutes: Secures admission to IITs, NITs, and other esteemed colleges.
- Career Opportunities: Offers pathways to top engineering roles globally.
- Skill Development: Builds analytical thinking, problem-solving skills, and a solid foundation in core subjects.

## Comprehensive Curriculum at MyDreamzAcademy

### Course Overview

Our IIT JEE curriculum ensures:

- A thorough understanding of concepts and principles in Physics, Chemistry, and Mathematics.
- Emphasis on problem-solving techniques and logical reasoning.
- Regular tests and evaluations to monitor progress.



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## Course Structure

### For Class 11th

#### 1. Physics

- Mechanics: Motion in a Straight Line, Laws of Motion, Work, Energy, Power
- Thermodynamics: Heat Transfer, Laws of Thermodynamics
- Electromagnetism: Electrostatics, Electric Current, Magnetic Effects of Current
- Optics: Basics of Reflection, Refraction

#### 1. Chemistry

- Inorganic Chemistry: Periodic Table, Chemical Bonding
- Organic Chemistry: Hydrocarbons, Functional Groups
- Physical Chemistry: Mole Concept, Thermochemistry, States of Matter

#### 1. Mathematics

- Algebra: Quadratic Equations, Progressions
- Calculus: Limits, Continuity, Differentiation
- Coordinate Geometry: Straight Lines, Circles
- Trigonometry: Trigonometric Ratios, Equations



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## Additional Topics for Success

### Physics:

- Advanced Mechanics: Simple Harmonic Motion, Rotational Dynamics
- Electromagnetism: Capacitors, Electromagnetic Waves

### Chemistry:

- Advanced Organic Mechanisms: Reaction Intermediates, Named Reactions
- Physical Chemistry: Surface Chemistry, Colligative Properties

### Mathematics:

- Coordinate Geometry: Ellipse, Hyperbola
- Advanced Probability: Distribution Theorems



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## How to Approach the IIT JEE Syllabus

### 1. Understand the Weightage

Focus on topics with higher weightage in the exam. For example:

- Physics: Mechanics and Electromagnetism
- Chemistry: Physical and Organic Chemistry
- Mathematics: Calculus and Coordinate Geometry

### 2. Develop Problem-Solving Skills

- Solve previous year's question papers to understand the exam pattern.
- Practice high-quality mock tests regularly.

### 3. Learn Conceptually

- Avoid rote learning; understand the 'why' behind each concept.
- Use diagrams, graphs, and visual aids for better retention.

### 4. Time Management

- Divide your daily study hours among the three subjects equally.
- Revise frequently to retain information.

### 5. Effective Methodology

- Start with NCERT textbooks for basic understanding.
- Follow it up with advanced problem-solving books such as H.C. Verma, Irodov (Physics), R.D. Sharma (Maths), and O.P. Tandon (Chemistry).



My Dreamz Academy  
Chaitanyapuri, Hyderabad

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## Key Features of MyDreamzAcademy IIT JEE Program

- Expert Faculty: Experienced IITians and subject experts.
- Personalized Doubt Sessions: Individual attention to clarify doubts.
- Regular Assessments: Chapter-wise tests and full-length mock exams.
- Mentorship: Guidance on study strategies and stress management.

## Why Choose MyDreamzAcademy?

1. Proven track record of top-performing students.
2. Well-structured study materials and practice tests.
3. Focus on conceptual clarity and application-based learning.