PROSPECTUS

JEE
NEET
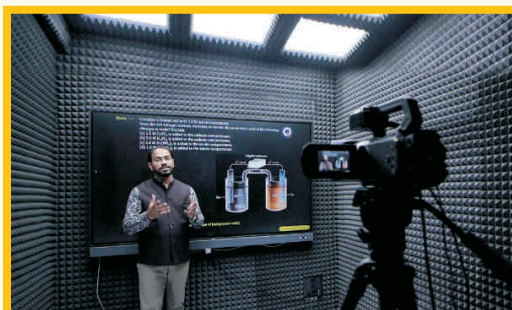## FOUNDATION

CONTENTS

About Us

We, at Momentum are a group of passionate educationists who have come together with a team of experienced professionals from IITs and other Top colleges of India to solve the educational complexities that Gen-Z is facing. We are focused on bringing a change to the national educational landscape using modern technologies such as hybrid teaching, seamlessly combined with the essence of conventional learning.

For us, Every Child Matters: We believe that every student deserves the right opportunity and support to fulfil his / her aim of qualifying examinations like JEE, NEET & other competitive exams. We have witnessed that not every student has the same reaction time, assessment speed, and ability to comprehend. That is why, many times students fall short in their preparation for competitive exams, resulting in unsatisfactory ranks. Therefore, it is extremely important for a student to get:

1. Personalised in-class attention from their teachers and mentors, which is achieved with our unique study model.

2. Learning at their own pace with the added benefit of recorded live lectures allowing them to re watch, relearn and reassess their lessons anytime they want.

Our Pedagogy: We have been guiding students through an array of elaborate programs inclusive of both online and offline classes. We believe in enriching the traditional classrooms by applying the principles of 'Hybrid Learning'.

Our Infrastructure: Our technologically advanced smart classrooms and live 2-way interactive classes, aided with audio-visual equipment help students in far-fetched cities to access India's leading faculties for IIT JEE & NEET preparations. Our state-of-the-art smart centers are equipped with high end interactive projectors, smart digital boards and visualizers, providing an immersive classroom experience.

Why should YOU join MOMENTUM?

1

India's Top Teachers

Shashi Bhushan Sir
Physics Professor
Author: Top Physics Books
B.Tech (Hons) IIT Kharagpur
Mentored AIR 66, 189, 196 (JEE)
26 (AIIMS) 194, 220 (NEET)
Exp 22+ Years

Ashish Dhanuka Sir
Maths Professor
B.Tech HBTI Kanpur
Mentored AIR 66, 189, 196 (JEE)
Exp 21+ Years

Atul Tamrakar Sir
Maths Professor
B.Tech IIT Kanpur
Mentored AIR 66, 189, 196 (JEE)
Exp 20+ Years

Dr. Kapil Jain Sir
Chemistry Professor
Ph.D. (RDVV)
Mentored AIR 66, 189, 196 (JEE)
26 (AIIMS) 194, 220 (NEET)
Exp 21+ Years

Students will have access to India's top teachers, who have produced top rankers over the years.

2

Smart Classrooms for enhanced learning

Our sound proof classes with 86" digital board and theatre like step sitting provide an immersive learning experience with live classes, two-way interaction with faculty, and a fertile ground for peer to peer learning.

3

Top Facilities

Student will have access to Library with reading room & Computer Lab for practice of CBT exams.

Programs for
JEE (Main + Advanced) Aspirants

Engineers are the foundation of any society, they are the individuals who possess qualities like innovation, creation and problem-solving ability. Therefore, it is of utmost importance that the students who are the fore bears of a new tomorrow have the same qualities.

MOMENTUM makes sure that all of our students are made to learn and trained well so that they can perform their best in **JEE (Main + Advanced).**

Two Year Classroom Program
For JEE Aspirants
Program for students moving to Class 11th or presently in Class 11th

It has been observed over the years that students enrolled under our Two Year Classroom Program have a higher degree of performing well in JEE (Main + Advanced). This program covers all the necessary material required for effective learning and longer retention. Under this program, our students are made to practice the school and board syllabus simultaneously, with JEE preparation.

This program helps our students in building strong fundamental concepts while boosting analytical thinking, which aids in solving application based complex problems.

PROGRAM Insights

4-5 days per week

Regular Doubt Classes

1000+ hours of classes

AITS - All India Test Series

Regular DPPS- Daily Problem Practice Sessions

Periodic Tests on Alternate Sundays
- JEE Main level test - Duration : 3Hrs.
- JEE Advanced level test - Duration : 3Hrs. (Conducted after 3 JEE Main level tests)

One Year Classroom Program
For JEE Aspirants

Program for class 12th Appeared or class 12th Pass Students

In this program the syllabus of JEE (Main + Advanced) is covered in a dedicated manner, with proper depth for each concept in every subject.

PROGRAM Insights

5-6 days per week

Regular Doubt Classes

800+ hours of classes

AITS- All India Test Series

Regular DPPS- Daily Problem Practice Sessions

Periodic Tests on Alternate Sundays
- JEE Main level test - Duration : 3Hrs.
- JEE Advanced level test - Duration : 3Hrs. (Conducted after 3 JEE Main level tests)

Study Module

The study material provided is prepared by the combined approach, research, analysis of the faculties, ex IITians and PhDs who have successfully mentored thousands of JEE & NEET qualifying students.

- **Each of our subjects has a study module consisting of topic wise intricate exercises, which helps in solid conceptual understanding and retention.**
- **Each chapter in our study module consists of well graded exercises.**

Programs for
NEET Aspirants

A doctor is someone who takes care of people in sickness and well-being, therefore, it is very important for a student pursuing medical that they take this role very critically. We at Momentum promote such practices amongst students which make them admirable critical thinkers and analytical problem solvers.
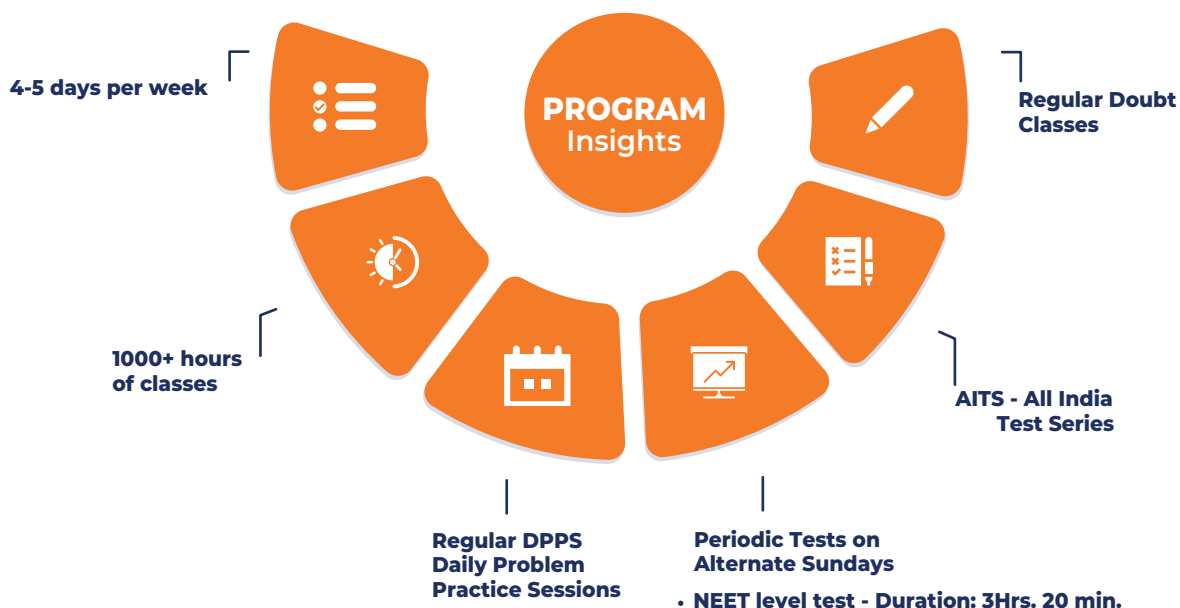
Additionally, our program is well equipped with particulars that allow our students to perform their best in the NEET examination.

Two Year Classroom Program
For NEET Aspirants

Program for students moving to class 11th or presently in class 11th

This program is designed keeping in mind that our medical students need an altogether different kind of attention from the engineering students. Therefore, our faculty equips our medical aspirants with the right approach of attempting the exam which helps them in securing the maximum marks in NEET.

Under this program, our students are made to practice the school and board syllabus simultaneously, with NEET preparations.

PROGRAM Insights

- 4-5 days per week
- Regular Doubt Classes
- 1000+ hours of classes
- AITS - All India Test Series
- Regular DPPS Daily Problem Practice Sessions
- Periodic Tests on Alternate Sundays
  - NEET level test - Duration: 3Hrs. 20 min.

One Year Classroom Program

For NEET Aspirants

Program for class 12th Appeared or class 12th Pass Students

In this program the syllabus of NEET is covered in a dedicated manner, with proper depth for each concept in every subject. This course is planned in such a way that each student gets enough time for self revision and removal of last minute doubts while building appropriate examination temperament.

PROGRAM Insights

- 5-6 days per week
- 800+ hours of classes
- Regular DPPS- Daily Problem Practice Sessions
- Periodic Test on Alternate Sundays
  - NEET level test - Duration: 3Hrs. 20 min.
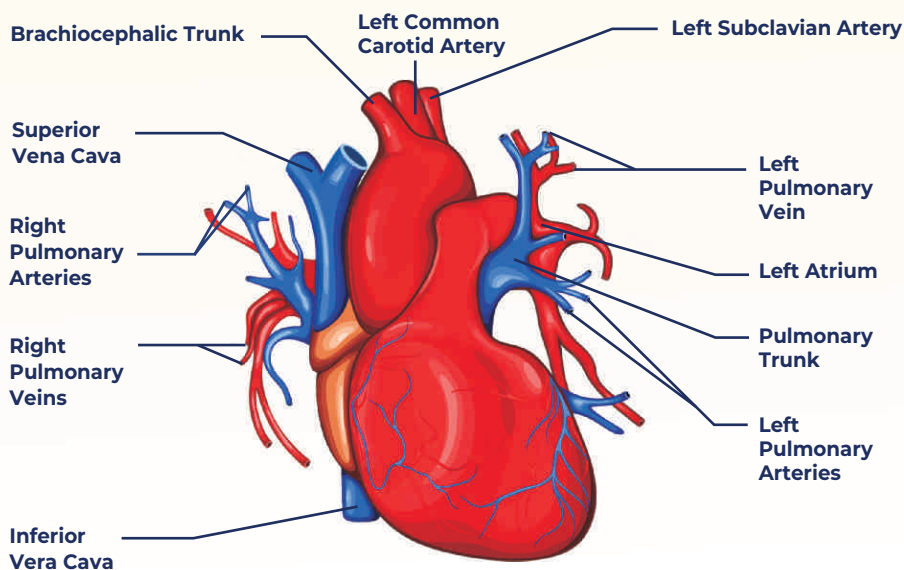- AITS- All India Test Series
- Regular Doubt Classes

Study Module

The study material provided is prepared by the combined approach, research, and analysis of the faculties who have taught and mentored thousands of doctors in their respective lifetimes.

- **Each of our study module consists of topic wise exercises, which helps in solid conceptual understanding and retention.**
- **Each chapter topic consists of well graded exercises.**

Human Heart

Brachiocephalic Trunk

Left Common Carotid Artery

Left Subclavian Artery

Superior Vena Cava

Right Pulmonary Arteries

Right Pulmonary Veins

Inferior Vera Cava

Left Pulmonary Vein

Left Atrium

Pulmonary Trunk

Left Pulmonary Arteries

Foundation Programs

Momentum believes that if a student is nurtured correctly from a young age then they can be easily directed towards a successful career. Under these courses we make sure to lay a solid layer of foundation for the students so that they can adapt to the quantum jump in the level of understanding the concepts while allowing them to grasp the full syllabus for board preparation and competitive exams.

One Year Program

For Class 8th, 9th, 10th

This course is designed for students who want to work on their basics for JEE / NEET while focusing on School exams & Boards as well.
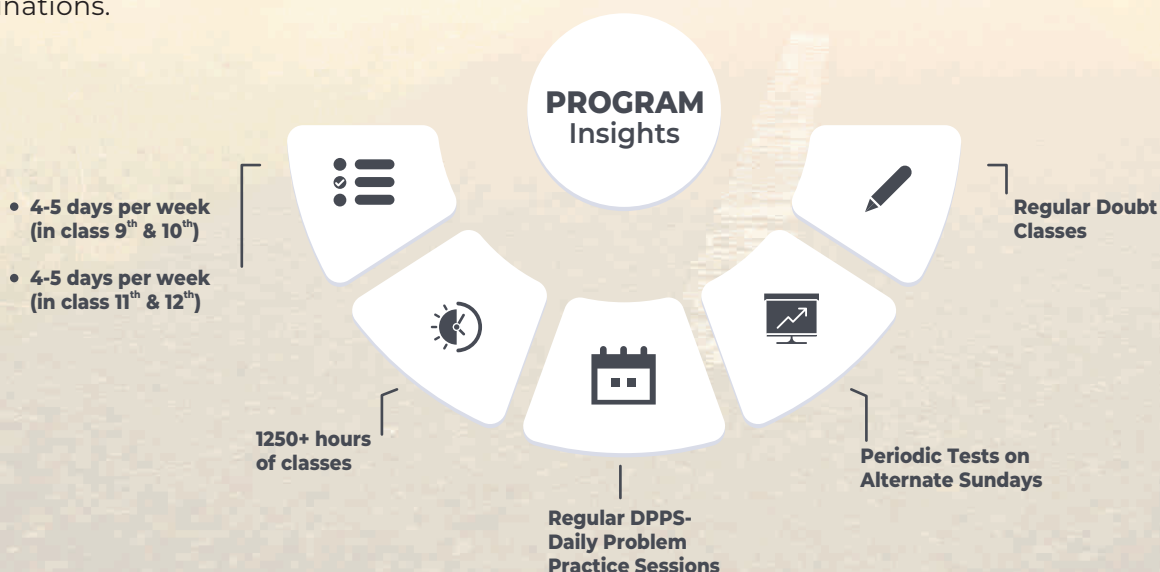
PROGRAM Insights

- 4-5 days per week
- 650+ hours of classes
- Regular DPPS- Daily Problem Practice Sessions
- Regular Doubt Classes
- Periodic Tests on Alternate Sundays

Three Year Program

For JEE / NEET Aspirants

Program for class 10th students, where we will prepare the student for 10th board exams and then we will prepare them for IIT JEE or NEET

As a student transits from class 10th to 11th then he/she goes through many academic related complications. To make sure that all of our students stay ahead we make them familiar with class 11th syllabus in 10th only, so that they can perform well in both class 11th and then in their respective entrance examinations.
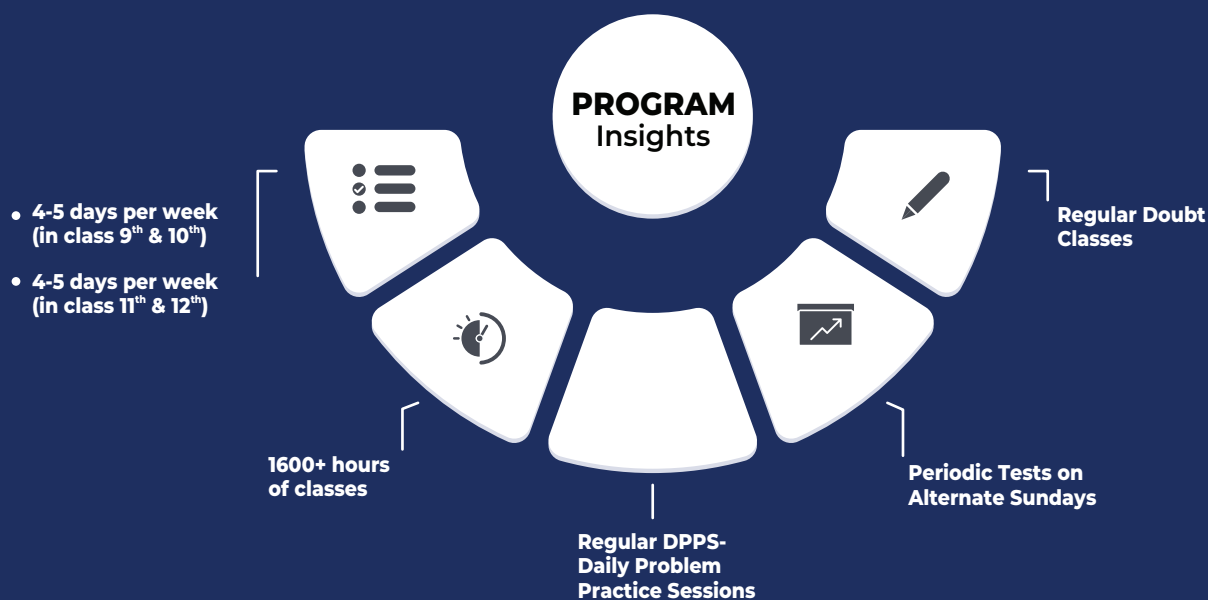
PROGRAM Insights

- 4-5 days per week (in class 9th & 10th)
- 4-5 days per week (in class 11th & 12th)
- 1250+ hours of classes
- Regular DPPS- Daily Problem Practice Sessions
- Regular Doubt Classes
- Periodic Tests on Alternate Sundays

Four Year Program

For JEE / NEET Aspirants

Program for class 9th students

This program is specifically designed for students who are ready to dedicate their preparations for IIT JEE / NEET starting early from class 9th.

PROGRAM Insights

- 4-5 days per week (in class 9th & 10th)
- 4-5 days per week (in class 11th & 12th)

1600+ hours of classes

Regular DPPS- Daily Problem Practice Sessions

Regular Doubt Classes

Periodic Tests on Alternate Sundays

Five Year Program

For JEE / NEET Aspirants

Program for class 8th students

This program helps our younger students to build a commitment and proper temperament for competitive exams such as IIT JEE / NEET along with their school exam preparations.

PROGRAM Insights

- 4-5 days per week (in class 8th, 9th & 10th)
- 4-5 days per week (in class 11th & 12th)

1900+ hours of classes

Regular DPPS- Daily Problem Practice Sessions

Regular Doubt Classes

Periodic Tests on Alternate Sundays

All About JEE

JEE examinations are conducted every year by the National Testing Agency (NTA). This exam is conducted with the motive of selecting the cream layer of students for admission into India's best and most respected engineering colleges IITs, NITs, IIITs, other centrally funded Technical Institutions (CFTIs) and Institutions / Universities funded / recognized by participating state Govt.

JEE or The Joint Entrance Examination has 2 levels JEE Main and JEE Advanced; once a student clear JEE Main successfully then he/she becomes eligible for JEE Advanced, which is the second stage. Admission into IITs and NITs / IIITs / CFTIs is given through performance in JEE Advanced and JEE Main respectively.

JEE Main

JEE Main has 2 papers. Paper 1 is for B.Tech. (Bachelor of Technology) & B.E. (Bechelor of Engineering) Paper 2 is for B.Arch. (Bachelor of Architecture) & B.Planning (Bachelor of Planning). Both the papers will be held in Online mode except for the Drawing section in B.Arch.

Eligibility

12th appearing / Passed. After exam, for Admission into IIT / NIT / IIIT /CFTI sudents must have minimum 75% marks (65% for SC / ST) or be in the Top 20 percentile in 12th class exam conducted by the respective Board.

Number of attempts

Students can appear for JEE Main 2 times a year. They can attempt the exam for 3 consecutive years from the year of passing class 12th.

JEE Main Exam Pattern

Mode of the examination	Online (CBT- Computer Based Test)
Subjects	Physics, Chemistry & Mathematics
Number of sections	Each Subject has 2 sections MCQ & Integer type questions
Examination Duration	3 hours
Marking Scheme	• No negative marking for unattempted question • -1 mark for every incorrect answer
Total Number of Questions	90 (Out of which 75 are compulsory to attempt) As per latest Pattern, each subject consists of two Sections - Section-A (MCQ) and Section-B (Numerical value questions). In Section-A all 20 questions are compulsory while in Section-B 5 out of 10 are compulsory
Maximum Marks	300

JEE Advanced

JEE Advanced has 2 papers and a student must appear for both.

Eligibility

Student should be amongst the top 2,50,000 successful candidates (including all categories) from B.E./B.Tech paper of JEE Main.

Number of attempts

Student can attempt JEE Advanced twice for two consecutive years. (One with class 12th & second in next year)

JEE Advanced Exam Pattern

Mode of the examination	Online (CBT- Computer Based Test)
Subjects	Physics, Chemistry & Mathematics
Marking Scheme *	• No negative marking for unattempted question • Negative marking for incorrect answer
Maximum Marks *	Paper 1 - 180, Paper 2 - 180
Examination Duration	3 Hours for each paper

*The marking scheme, total number of questions and maximum marks are subject to changes by presiding IIT.

All About NEET

National Eligibility cum Entrance Test or NEET, formerly known as AIPMT is a pre-medical entrance test in which class 12th appearing/passed students appear for admission in undergraduate course (MBBS / BDS) at medical colleges including AIIMS.

This examination is conducted by NTA annually in Pen and Paper mode in 13 languages.

Eligibility

12th appearing / Passed. After NEET Exam for admission into Medical college, student must have passed 12th Board with minimum 50% marks (40% for OBC / SC / ST) in aggregate in PCB subjects.

Age Eligibility

The appearing student must complete 17 years of age.

NEET Exam Pattern

Mode of the examination	Offline only- Pen & Paper based
Subjects	Zoology, Botany, Physics & Chemistry
Total Number of Questions	As per latest NEET pattern, each subject consists of two sections; section-A & section-B. In section-A all questions are compulsory while in section-B, only 10 out of 15 questions are compulsory.
Marking Scheme	• +4 marks for each correct answer • -1 marks for each incorrect answer 200 (50-Physics, 50-Chemistry, 100-Biology) Note : Students need to attempt 180
Maximum Marks	720
Exam Duration	3 hours 20 minutes

Olympiads & Other
Competitive exams

Olympiads are the exams that allow students to compete with other students of similar educational levels. These exams are carried out to conclude and appreciate the skills of participants in subjects like mathematics, science, computer technology, or english language. Olympiads are conducted in all 3 levels- regional, national and international; the participating students are judged on their scientific reasoning, analytical thinking, and logical-ability related to the particular subject. Students who appear for these exams and achieve good marks are awarded scholarships, and money grants

Similarly, scholarship exams are Nationally and Internationally recognized tests which include questions of higher order thinking and analytical thinking. If a student qualifies for the scholarship then they get the opportunity to win money grants, rewards, and financial aids in pursuing higher education.

At Momentum, we train our students for these examinations by making them go through extensive practice of logical reasoning and analytical thinking. We make our students practice various intellect-building exercises so that they can face the fierce competition which takes place on national and international levels.

Major Scholarship Exams

Name of the Examination	Eligibility	Exam Month	Syllabus
KVPY (SA/SX) www.kvpy.org.in	Students studying in $11^{th}/12^{th}$, who have secured min. of 80% marks in Science + Math in 10th and PCM/B in 11th	October / November	$11^{th}/12^{th}$ level Sciene from CBSE & ICSE board
NTSE www.ncert.nic.in	Students studying in 10th	Stage 1-November Stage 2- May	Syllabus of 10th along with MAT
JSTSE www.edudel.nic.in	Students studying in 9th	January / February	Syllabus of 9th + General Knowledge & General Science
NSEJS (STAGE-1) http://olympiads.hbcse.tifr.res.in	Students of class $9^{th}/10^{th}$	November	Syllabus up to 10th
NSEJS (STAGE-2) http://olympiads.hbcse.tifr.res.in	Students selected from Stage 1 examination (NSEJS)	January	Syllabus up to 10th
RMO http://olympiads.hbcse.tifr.res.in	Class 9th - 12th	December	As per 9th to 12th Mathematics CBSE/ICSE Syllabus
NSO; IMO www.sofworld.org	Class 1th - 12th	November	As per 1th to 12th Mathematics CBSE/ICSE Syllabus

How to Prepare for
Competitive exams

Start early to beat the Competition

Competitive exams are becoming more competitive day by day. It makes immense sense to build a strong fundamental base as early as possible.

We have observed that the competence of the batch starting early is very high as the brightest / serious of the lot always join our early batches.

Early start leaves you with ample time for revision, polishing for examination temperament and removal of last moment doubts.

The first prerequisite is Determination

Nothing big can be achieved with a half hearted attempt. Success in these exams demand full 100% from your end. There is a quantum gap between the level of these exams and the school studies. To cover up that gap one needs a strong will.

Right balance between Competitive exam preparation & School studies

Many students succumb under the last moment pressure of Board exams and spoil their preparation for competitive exams by not managing the necessary time for last revision. A balance between school studies and competitive exam study is possible if the student understand that the school studies can be incorporated within the broad framework of competitive exam preparation.

Attain the correct level of proficiency

Preparation for competitive exams calls for higher level of analytical skills and even greater effort. Do not dilute your preparation in any topic because of factors like school work etc. Unlike school / board exams you cannot score in competitive exams without reaching a certain level of proficiency. We at MOMENTUM understand this and prepare our students for core fundamentals through our most comprehensive study material and well graded assignments.

Periodic tests

The periodical tests at MOMENTUM should be used as opportunities to master the concepts and learn the art of time management. Our All India test series will let you practice a lot before the final exam.

Achieve your Goal

Entrance exam

Repeatedly tell yourself that you can do it

Consistent revision

Never let your doubts pile up. Get help from your teachers as soon as a doubt arises

Keep taking periodic tests

Do assess your weak areas and work rigorously for improvement

Keep a right balance between competitive exam & school exam preparation

Be determined to surmount all pressure

Start preparation immediately after Xth Board

Top Engineering Colleges

Indian Institute of Technology (IIT)

These are institutions of national importance. Presently there are 23 IITs located at-

1	Kharagpur	2	Kanpur	3	Delhi	4	Bombay
5	Madras	6	Roorkee	7	Guwahati	8	Varanasi
9	Gandhi Nagar	10	Ropar	11	Jodhpur	12	Patna
13	Bhubaneswar	14	Hyderabad	15	Mandi	16	Indore
17	Palakkad	18	Tirupati	19	Bhilai	20	Dhanbad
21	Jammu	22	Goa	23	Dharwad		

National Institute of Technology (NIT)

Comprising 31 autonomous institutes, they are located in each major state / territory of India. In 2007 government declared these schools as institutes of national importance. They are located at-

1	Agartala	2	Allahabad	3	Bhopal	4	Calicut
5	Durgapur	6	Hamirpur	7	Jaipur	8	Jalandhar
9	Jamshedpur	10	Kurukshetra	11	Nagpur	12	Patna
13	Raipur	14	Rourkela	15	Silchar	16	Srinagar
17	Surat	18	Suratkal	19	Tiruchirappalli	20	Warangal
21	Arunachal Pradesh	22	Delhi	23	Goa	24	Manipur
25	Meghalaya	26	Mizoram	27	Nagaland	28	Puducherry
29	Sikkim	30	Uttarakhand	31	Andhra Pradesh		

Indian Institute of Information Technology (IIIT)

These are institutes focused on information technology. Established by Indian government, they are located at

1.	Allahabad	2.	Jabalpur	3.	Gwalior	4.	Kancheepuram	5. Kurnool

More IITs have been established under PPP (Public Private Partnership) model at

1.	Guwahati	2.	Kota	3.	Vadodara	4.	Trichy	5.	Ranchi
6.	Kalyani	7.	Una	8.	Sonepat	9.	Lucknow	10.	Nagpur
11.	Kottayam	12.	Dharward	13.	Pune	14.	Bhopal	15.	Agartala
16.	Surat	17.	Bhagalpur	18.	Manipur	19.	Raichur		

International Institute of Information Technology (IIIT)

Located at Hyderabad, it is a famous Autonomous institute established in 1998.

Birla Institute of Technology & Science (BITS)

BITS is highest ranked private engineering college in the country. It enjoys a very high reputation world wide. Its campuses are at-

1.	Pilani	2.	Hyderabad	3.	Goa	4.	Dubai

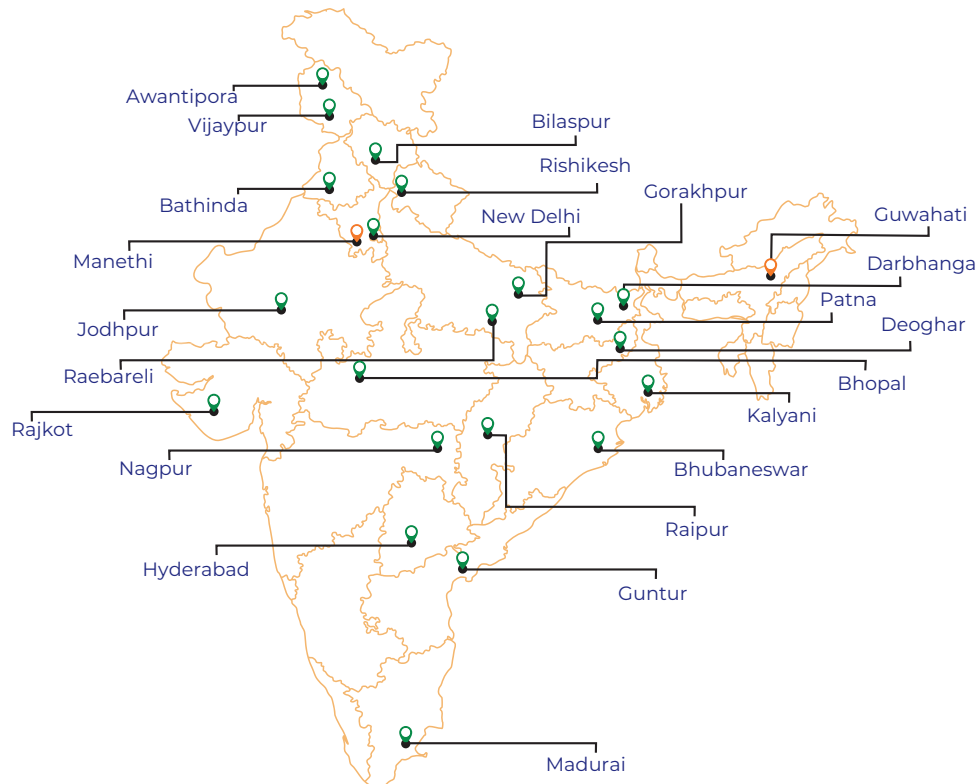| IIT Kharagpur	MANIT Bhopal	IIIT Jabalpur	BITS Pilani

Top Medical Colleges

All India Institutes of Medical Sciences (AIIMS)

Is a group of autonomous government public medical universities of higher education under the jurisdiction of Ministry of Health and Family Welfare , Government of India. These institutes have been declared by an Act of Parliament as Institutes of National Importance. **AIIMS New Delhi, the forerunner institute, was established in 1956**. Since then, 24 more institutes were announced. As of January 2023, twenty institutes are operating and four more are expected to become operational until 2025. Proposals were made for six more AIIMS.

Awantipora
Vijaypur
Bilaspur
Rishikesh
Gorakhpur
Guwahati
Bathinda
New Delhi
Darbhanga
Manethi
Patna
Jodhpur
Deoghar
Raebareli
Bhopal
Rajkot
Kalyani
Nagpur
Bhubaneswar
Hyderabad
Raipur
Guntur
Madurai

Location of the functioning AIIMSs (green) and upcoming AIIMSs (orange)

Most other preferred Medical Colleges are -

1. AFMC, Pune	2. MAMC, Delhi	3. GMC, Mumbai
4. CMC, Vellore	5. King George, Lucknow	6. JIPMER, Puducherry
7. Kasturba College, Manipal	8. St. Johns, Bangalore	9. MMC, Chennai
10. Seth G.S., Mumbai	11. BHU	12. Amrita Institute, Kochi
13. PGIMS, Rohtak	14. Govt. College, Chandigarh	15. Lady Hardinge, Delhi
16. Sri RCMC, Chennai	17. Medical College, Kolkata	18. B.J. College, Pune
19. CMC, Ludhiana	20. GMC, Hyderabad	21. GMC, Mumbai
22. College of Dental Science, Manipal	23. LTM, Sion, Mumbai	24. Ramaiah, Bangalore

AIIMS Delhi	AFMC Pune	JIPMER Pondicherry	CMC Vellore

Our Star Performers

JEE (ADV) Result

AIR 66
G. Avinash

AIR 196
Akash Paharia

AIR 210
Bhupendra Kastore

AIR 276
Aditya Jain

AIR 479
Hritwik Singhai

AIR 524
Ankit Jain

AIR 527
Adarsh Agrawal

AIR 627
Palka Puri

AIR 907
Bhuvesh Goyal

AIR 975
Vivek Mudgal

NEET Result

MARKS 646
Preeti Mishra

MARKS 625
Utkarsh Gaurav

MARKS 618
Priya Patel

MARKS 617
Ayush Mourya

MARKS 610
Mayank Pandey

MARKS 609
Bhavyajot Singh Jaggi

MARKS 594
Neeti Shrivastava

MARKS 591
Bhavesh Gupta

MARKS 584
Siddharth Tiwari

MARKS 578
Astha Simre

And many more...

Highest number of selections in city Year by Year...

18

TESTIMONIALS

" The teachers are very much hardworking and dedicated towards students. They have helped me in all possible ways. Many questions came directly into the paper from the notes. "
Hritwik Singhai, IIT BHU

" Momentum has been generating top results from Jabalpur for the past 19 years. With an arsenal of stable faculty. Complete and detailed study material, continuous testing, doubt clearance, they deliver a top notch engineering and medical preparation platform. "
Sajal Jain, IIT Kanpur

" In may opinion, this is the best institution for competitive exam preparations. The way of teaching is good, along with well-managed classes. Studying here has helped me to gain alot of confidence which is an important thing for students. I experienced healthy competition, which is also very crucial for IIT JEE aspirants. "
Adarsh Agrawal, IIT BHU

" Learning here made me regular and sincere towards my studies. The periodic tests allowed me to identify my weaknesses. I worked on my weak areas with the proper guidance & support of all the teachers. I also worked equally hard on the easier topics, which helped me to get 100% sure of my answers in the exam. "
Utkarsh Gaurav, Gandhi Medical College, Bhopal

" It is my good luck that I joined Momentum for my NEET preparations. All faculty members are superb. They kept inspiring and motivating me throughout the year. I am extremely thankful for each and every teacher. "
Pratime Bisen, MBBS from GMC, Nagpur and MD (Pediatrics) from GMC, Mumbai

" Momentum is a very good option for engineering aspirants of JEE. Faculty at Momentum are good and they have a well organized and advanced study material with the right grap on the contents. Correct teaching methodology and systematic class add to its efficiency. "
Karan Ralhan, IIT Kharagpur