



**VINAYAK CLASSES<sup>®</sup>**  
DEGREE & DIPLOMA ENGINEERING

**SCIENCE**

**STD. XI, XII + IIT - JEE Main & Advance / MHT-CET**

**STD. XI, XII + NEET**

**STD. XI + XII**

**Engineering / Medical entrance**

**WWW**

<http://www.vinayakclasses.org/>



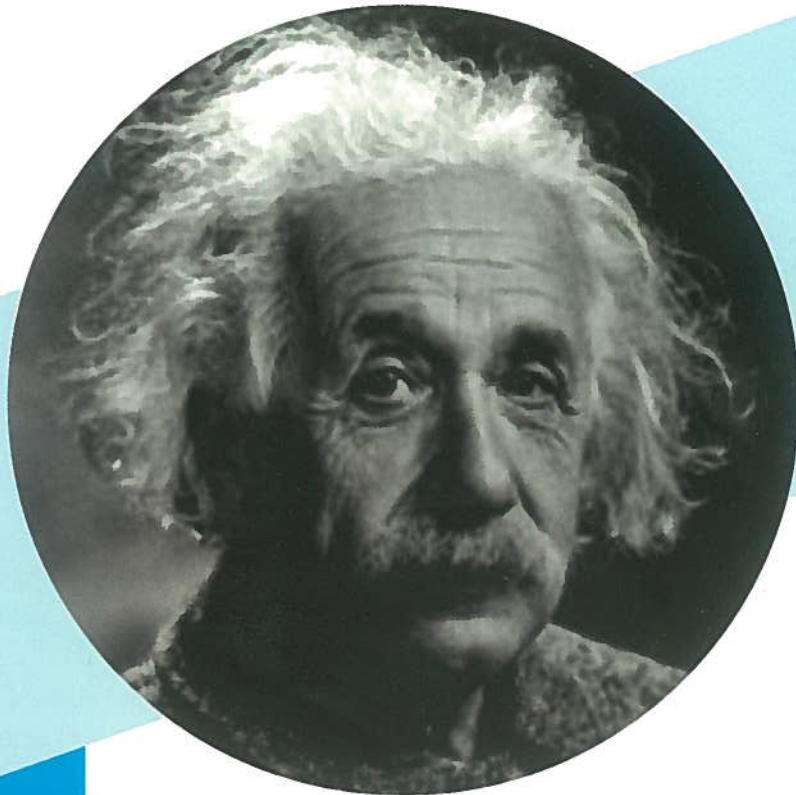
**..THINK EDUCATION .....THINK VINAYAK!!!**

## DEAR STUDENTS, GREETINGS FROM



Throughout its rich 15+ year history, the VINAYAK CLASSES has established an outstanding regional reputation for excellence in teaching. We have centers at DADAR, SION and THANE. This is due to its talented faculty and staff, as well as its modern methods of teaching. I see our institute, its students, faculty and staff playing a pivotal role in building on VINAYAK CLASSES's momentum, and I am quite excited to be involved. We believe in our students and we value their success. The institute has produced an impressive cohort of good students, who are fiercely loyal and proud of their alma mater. In turn, we are supported by industry experts who, through their generous gifts of time, expertise, and resources to help us thrive as an institute and shape new generations of professional. We encourage our students to take advantage of all the supports available to them at the VINAYAK CLASSES. With a forward thinking attitude we realize that the students of the future, in order to succeed in a competitive environment, will require more than the traditional teaching method by our talented faculties. Looking forward the VINAYAK CLASSES will make every effort to continue to be known for its high-quality education.

**DIRECTOR  
BHUSHAN SARFARE**



“Science is 1% inspiration and 99% perspiration.”  
(Albert Einstein)

### **XI -XII SCIENCE**

After S.S.C. any student pursuing a career in the science stream has to cross the next crucial milestone particularly H.S.C. and Entrance Tests i.e. MHT-CET (NEET)/ JEE MAIN. Students can secure admission to MEDICAL / PHARMACY/ ENGINEERING depending on the marks scored in the entrance tests. Unfortunately many students underestimate the importance of Std XI & XII which forms the basic curriculum of the Entrance Tests'

### **IIT JEE (Main+Advance)**

Admission criteria to Undergraduate Engineering Programs at NITs, IIITs, Other Centrally Funded Technical Institutions, Institutions funded by participating State Governments, and other Institutions shall include the performance in the class 12/equivalent qualifying Examination and in the Joint Entrance Examination, JEE (Main). The Paper-1 (B.E./B. Tech.) of JEE (Main) will also be an eligibility test for the JEE (Advanced), which the candidate has to take if he/she is aspiring for admission to the undergraduate programmes offered by the IITs.

### **NEET**

NEET stands for National Eligibility cum Entrance Test. The National Eligibility cum Entrance Test (UG) is a new qualifying cum entrance examination notified under the 'Regulations on Graduate Medical Education 1997 and BDS Course Regulations, 2007. NEET has been introduced by Ministry of Human Resource Development (MHRD) Govt, of India and Medical Council of India (MCI).

### **MT-CET**

Government of Maharashtra, State Common Entrance Test Cell conduct "Common Entrance Test" MHT-CET for admission to First Year of Full Time Degree Courses of Health Sciences (MBBS, BDS, BAMS, BHMS, BUMS, BPT, BOT, BASLP, BP&O and BSc. Nursing, B.V.Sc. & AH) and Technical Education (Engineering and Technology, Pharmacy and Pharm. D.) for every academic year.



### **Diploma Engineering**

It is considered equivalent to H.S.C. and stud-ents can apply for admission to ENGINEERING DEGREE Programs after successful completion of Diploma. Students become eligible to apply directly to the Second Year of Degree in Engineering. After completion of Diploma in Engineering, students can also apply for jobs.

### **Degree Engineering**

BE/B.Tech is a degree awarded by universities to students who have completed four years (eight semesters) worth of coursework related to a specific branch of engineering. After completion of the degree student can either continue their studies or can join any company.

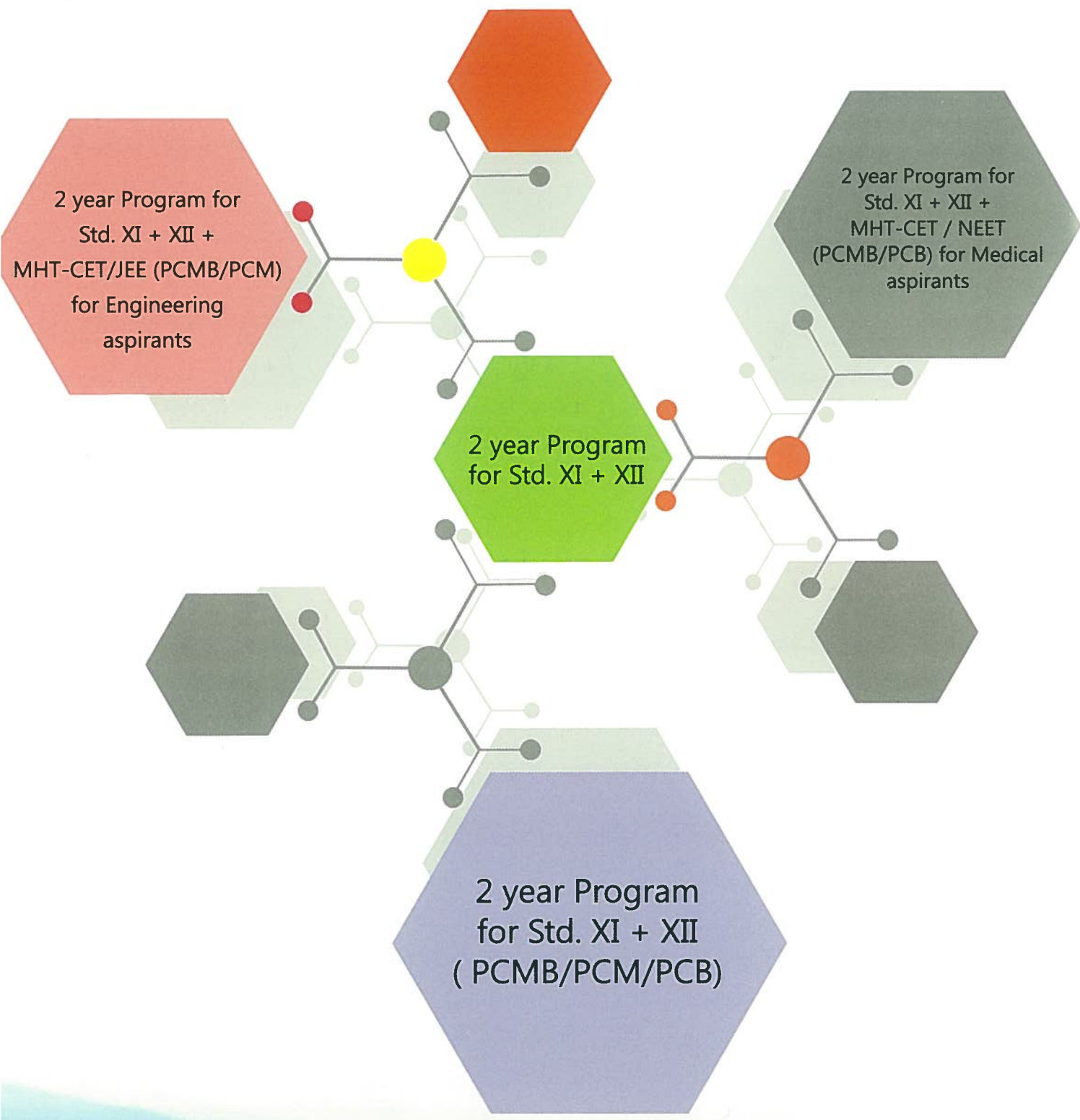
### **B.Sc. IT**

The B.Sc. IT program of Mumbai University is designed to provide basic inputs for a broad understanding of IT and its interfaces. The focus is on "Information Technology and Management of IT". Today, smart, successful businesses use IT to give them an extra-edge to stay ahead of the competition. IT is soon becoming a 'driver' rather than an 'enabler' of business.

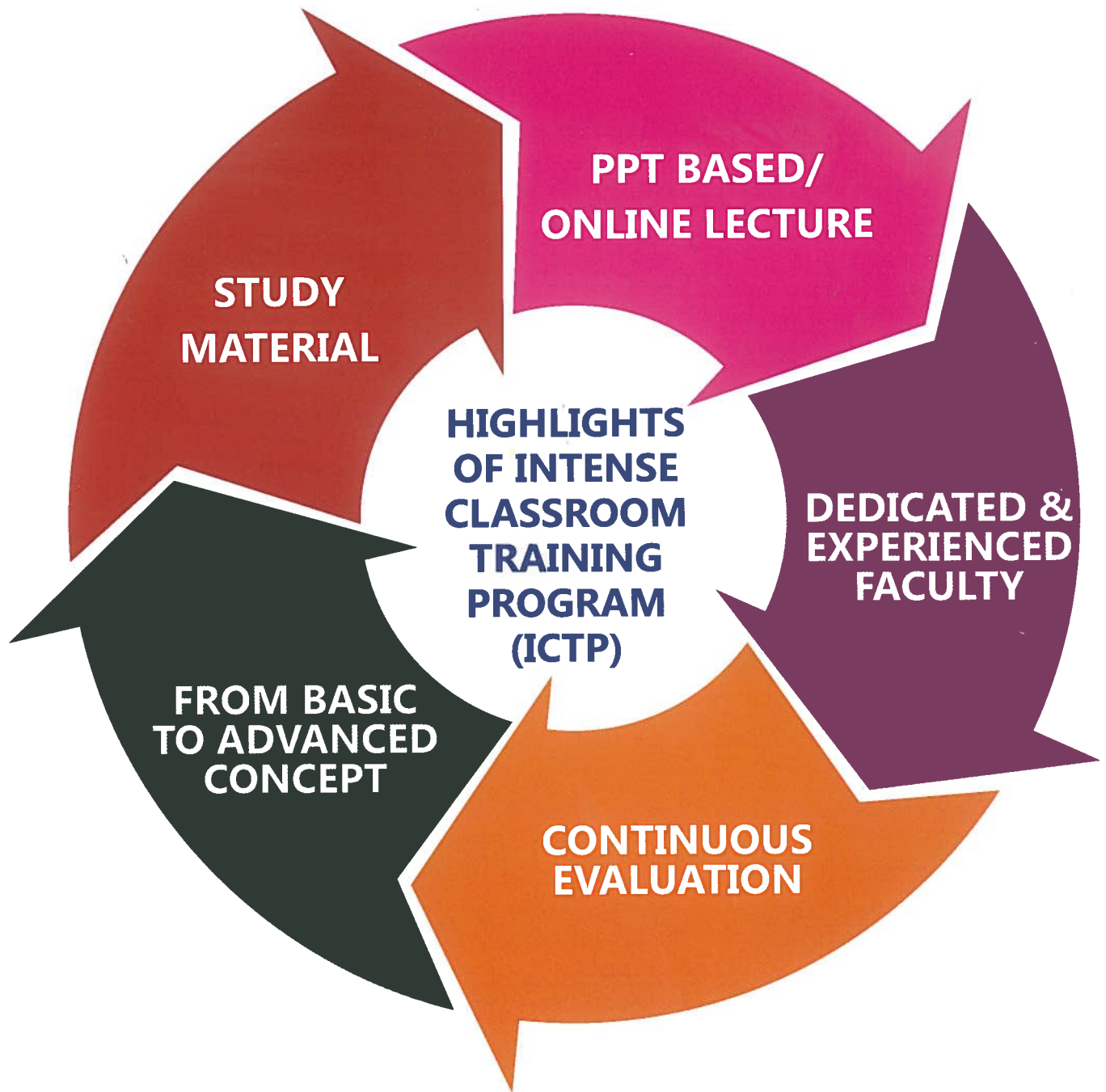
### **GATE**

The Graduate Aptitude Test in Engineering (GATE) is an all-India examination that primarily tests the comprehensive understanding of various undergraduate subjects in engineering and science. We conduct classes to provide the best & quality education to the students through innovative learning methodologies with constant improvements. We focus to enrich lives of students to become successful in a diverse and changing world.

# SCIENCE |



[Note : P = Physics C = Chemistry M = Mathematics B = Biology]



# FEATURES OF INTENSE CLASSROOM TRAINING

## PROGRAM (ICTP)

### **TUTORIALS**

Practice sheets are given on regular basis

### **L-TAD method**

Lectures, Tests, Assignment and Discipline will ensure an additional 20% growth in the child.

### **SPEED TEST**

SPEED TEST is conducted to ensure regular growth in marks.

### **One-2-One Coaching**

To check the progress of the student and solve their difficulties.

### **ALT (Accelerated Learning Technique)**

To help students complete their syllabus on time.

### **SMS/ Online / Email / Communication**

All academic programs and progress via SMS or emails.

### **Faculty**

Dedicated and experience faculty members.

### **Periodic Testing**

Surprise tests and regular periodic exams to review academic performance.

### **Library Facility**

Hundreds of reference books are available for the student at zero cost.

### **Career Counseling/ Psychological testing**

To help students to decide the most important issue "WHICH CAREER? "

### **Parents Meeting**

Regular parents meeting will be held.



# SCHEDULE

| MONTH  | DAYS                    | MORNING                             | EVENING                            |
|--|-------------------------|-------------------------------------|------------------------------------|
| July to Dec                                    | Monday To Saturday      | 7:00am to 10:00am<br>(XI/Entrance)  | 6:00pm to 9:00pm<br>(XI/Entrance)  |
|  | Sunday & Public Holiday | 7:00am to 2:00pm (XI/Entrance)      |                                    |
| 25 <sup>th</sup> Dec To 1 <sup>st</sup> Jan    | Everyday                | 7:00am to 2:00pm (XII/Entrance)     |                                    |
| Jan ,Feb, March                                | Monday To Saturday      | 7:00am to 10:00am<br>(XI/Entrance)  | 6:00pm to 9:00pm<br>(XI/Entrance)  |
|  | Sunday & Public Holiday | 7:00am to 2:00pm (XII/Entrance)     |                                    |
| 9 <sup>th</sup> April to 15 <sup>th</sup> June | Everyday                | 7:30am to 2:00pm(XII/Entrance)      |                                    |
| 16 <sup>th</sup> June to 28 <sup>th</sup> Dec  | Monday To Saturday      | 7:00am to 10:00am<br>(XII/Entrance) | 6:00pm to 9:00pm<br>(XII/Entrance) |
|  | Sunday & Public Holiday | 7:00am to 2:00pm (XII/Entrance)     |                                    |
| March, April, May<br>(After XII-Board Exam)    | Everyday                | 7:00am to 2:00pm (Entrance)         |                                    |
| DAILY  | Speed test              | 7:00am to 7:30 am                   | 6:00pm to 6:30 pm                  |

## EVALUATION

| DAILY    | HOMEWORK               | ENTRANCE PREPARATION |                          |
|----------|------------------------|----------------------|--------------------------|
|          | SPEED TEST             | DAILY                | Formula Book             |
| WEEKLY   | CHAPTERWISE TEST       | TEST                 | Weekly( Topic-wise Test) |
| MONTHLY  | NUMERICAL TEST         |                      | Monthly (Subject – wise) |
| QUATERLY | HALF/FULL PORTION TEST | —                    | —                        |

## FINAL TEST SERIES

|                        |                  |                 |
|------------------------|------------------|-----------------|
| 1 <sup>st</sup> PRELIM | 26 OCT TO 02 NOV | 50% SYLLABUS    |
| 2 <sup>nd</sup> PRELIM | 17 OCT TO 24 NOV | 50% SYLLABUS    |
| 3 <sup>rd</sup> PRELIM | 07 DEC TO 13 DEC | Entire SYLLABUS |
| 4 <sup>th</sup> PRELIM | 27 DEC TO 30 DEC | Entire SYLLABUS |
| 5 <sup>th</sup> PRELIM | 16 JAN TO 19 JAN | Entire SYLLABUS |

JEE/NEET/MHT -CET

5 Mock test

Medicine is one of the most rewarding careers for those interested in Science and dealing with sick people. Over the years, the field of medical studies have undergone various stages of development, it has become so vast that specializations within are increasing day by day. There is great scope for medicine as a professional career.

A doctor's profession involves a lot of hard work and at the same time, it gives the satisfaction of curing patients at times even saving lives. It is a very demanding profession. To be in this profession is more a responsibility than a privilege. It is more of what you can give the community than what you can get from it.

The demand for medical professionals is tremendously increasing with the unfortunate upsurge of diseases and ailments day by day. At the same time super specialty hospitals are mushrooming both within the country and abroad offering employment opportunities. These along with liberalization of economy could bring better Opportunities for these professionals in terms of remuneration, research and working facilities.

## What is MBBS?

MBBS stands for Bachelor of Medicine and Bachelor of Surgery. The naming suggests that they are two separate degrees; however, in practice, they are usually treated as one and awarded together which is of 5 1/2 years duration (including 1 year internship).

## What is BDS?

BDS stands for Bachelor of Dental Surgery. In India BDS degree is awarded at the successful completion of four years of study and one year of internship to the students as per the old regulations of Dental council of India. According to new regulations, the BDS course comprises of five years with no internship period. Post graduate courses (Master of Dental Surgery. MDS) are also available in different specialties. It requires 3 years of study after BDS.

## What are the different medical courses other than M.B.B.S. & B.D.S.?

B.H.M.S. (Bachelor of Homeopathic Medicine & Surgery) 5.5 years

B.A.M.S. (Bachelor of Ayurvedic Medicine & Surgery) 5.5 years

B. Pharm (Bachelor of Pharmacy) 4 years

B.Sc Nursing 4 years

B.P.T. (Physiotherapy) 4.5 years

B.O.T. (Occupational Therapy) -3years

B.V.Sc (Bachelor in Veterinary Science} 4.5years

B.U.M.S. (Unani Medicine) 5.5 years

BMLT (Medical Laboratory Technology) -3years, etc



## What is NEET exam?

As per regulations framed under the Indian Medical Council Act-1 956 as amended in 2016 and the Dentists Act 1948 as amended in 2016, NATIONAL ELIGIBILITY CUM ENTRANCE TEST (UG) 201 7 (NEET-UG-201 7) will be conducted by the Central Board of Secondary Education (CBSE), for admission to MBBS/BDS Courses in India in Medical/Dental Colleges run with the approval of Medical Council of India/Dental Council of India under the Union Ministry of Health and Family Welfare, Government of India except for the institutions established through an Act of Parliament i.e. AIIMS and JIPMER Puducherry.

| Section | Subject   | No. of question | Marks | Time              | Negative Marking |
|---------|-----------|-----------------|-------|-------------------|------------------|
| I       | Physics   | 45              | 180   | 3hrs<br>(180mins) | -1               |
| II      | Chemistry | 45              | 180   |                   |                  |
| III     | Botany    | 45              | 180   |                   |                  |
|         | Zoology   | 45              | 180   |                   |                  |
|         | Total     | 180             | 720   |                   |                  |

## What will be the syllabus for NEET?

It will have both 11th and 12th class NCERT syllabus. As the official sources tell, 40% ' questions will be asked from 11th class and 60% are to be asked from 12th class.

## Name The Govt./private Colleges For Medical In Maharashtra. Govt./private Colleges Medical Are As Follows:

| Sr. No. | Name and Add. Of Medical college / Medical institution                  | Sector | Annual Intake |
|---------|---|--------|---------------|
| 1       | ACPM Medical College, Dhule   | Trust  | 100           |
| 2       | Armed Forces Medical College, Pune                                      | Govt.  | 140           |
| 3       | Ashwini Rural Medical College, Hospital and Research Centre Solapur     | Trust  | 100           |
| 4       | B. J. Medical College, Pune   | Govt.  | 200           |
| 5       | Bharati Vidyapeeth Deemed University Medical College & Hospital, Sangli | Trust  | 150           |



## MEDICINE AS CAREER

| Sr. No. | Name and Add. Of Medical college / Medical institution   | Sector | Annual Intake |
|---------|--|--------|---------------|
| 6       | Lokmanya Tilak Municipal Medical College, Sion, mumbai   | Trust  | 150           |
| 7       | Krishna Institute of Medical Sciences, Karad   | Govt.  | 100           |
| 8       | KJ Somaiyya Medical College and Research Centre, Mumbai  | Trust  | 150           |
| 9       | Jawaharlal Nehru Medical College, Sawangi (Meghe), wardha  | Trust  | 100           |
| 10      | Institute of Medical Science and Research, Vidyagiri, Satara   | Govt.  | 50            |
| 11      | Indira Gandhi Medical College & Hospital, Nagpur   | Trust  | 100           |
| 12      | Grant Medical College, Mumbai  | Trust  | 120           |
| 13      | Govt. Meical College, Miraj  | Govt.  | 150           |
| 14      | Govt Medical College, Latur  | Govt.  | 200           |
| 15      | Govt Medical College, Akola .  | Govt.  | 100           |
| 16      | Government Medical College, Nagpur   | Govt.  | 100           |
| 17      | Government Medical College, Aurangabad   | Govt.  | 100           |
| 18      | Dr. Vasant Rao Pawar Med. Col. Hosp. & Research Centre, Nasik<br>(Prev. NDMVP samaj Medical College) | Govt.  | 200           |
| 19      | Dr. Ulhas Patil Medical College & Hospital, Jalgaon  | Govt.  | 100           |
| 20      | Dr. Shankarrao Chavan Govt. Medical College, Nanded  | Trust  | 100           |
| 21      | Dr. Panjabrao Alias Bhausaheb Deshmukh Memorial Medical College, Amravati                            | Trust  | 150           |
| 22      | Dr. D. Y Patil Medical College, Kolhapur   | Trust  | 50            |
| 23      | Dr. Vaishampayan Memorial Medical College, Solapur   | Trust  | 150           |
| 24      | Bharati Vidyapeeth University Medical College, Pune  | Govt.  | 100           |
| 25      | Padmashree D. Y Patil Medical College, Navi Mumbai   | Trust  | 100           |
| 26      | Topiwala National Medical College, Mumbai  | Trust  | 100           |
| 27      | Terna Medical College, Navi Mumbai   | Trust  | 100           |
| 28      | SRTR Medical College, Ambajogai  | Trust  | 100           |
| 29      | Sri Bhausaheb Hire Government Medical College, Dhule   | Trust  | 150           |
| 30      | Smt. Kashibai Navale Medical College and Hospital, Narhe, Pune                                       | Trust  | 150           |
| 31      | Shri Vasant Rao Naik Govt. Medical College, YavatmaI   | Trust  | 250           |
| 32      | Seth GS Medical College, Mumbai  | Trust  | 150           |
| 33      | Rural Medical College Loni   | Govt.  | 100           |
| 34      | Rajiv Gandhi Medical College and Chhatrapati shivaji Maharaj Hospital, Thane                         | Govt.  | 60            |
| 35      | Rajashree Chuatrapati Shahu Maharaj Government Medical College, Kolhapur                             | Trust  | 125           |
| 36      | Padmashree Dr. Vithalrao Vikhe Patil Foundations Medical College, Ahmednagar                         | Govt.  | 180           |
| 37      | Padmashree Dr. D. Y Patil Medical College, Pimpri, Pune  | Govt.  | 100           |
| 38      | N. K. P. Salve Institute of Medical Science, Nagpur  | Trust  | 100           |
| 39      | Mahatma Gandhi Missions Medical College, Navi Mumbai   | Govt.  | 50            |
| 40      | Mahatma Gandhi Missions Medical College, Aurangabad  | Govt.  | 50            |
| 41      | Mahatma Gandhi Institute of Medical Science, Sevagram, Wardha  | Trust  | 100           |
| 42      | Maharashtra Institute of medical Education & Research, Pune .  | Govt.  | 120           |
| 43      | Maharashtra Institute of Medical Science & Research, Latur   | Trust  | 150           |



## JEE - MAIN

The Joint Entrance Examination (Main) is conducted by CBSE for Undergraduate Engineering Programs at NITs, IITs, other centrally funded Technical Institutions, Institutions funded by several participating State Governments, and several other Institutions shall include the performance in the Joint Entrance Examination, JEE (Main).

For admission to NITS, Centrally Funded Technical Institutions (CFTIs) like IITs etc. and other participating Institutions, the merit/rank list shall be prepared

### What is requirement of paper for different courses and mode of Exam in JEE-MAIN?

| Paper   | Courses                             | Subjects   | Type of Questions                   | Mode of Exam                        |
|---------|-------------------------------------|--|-------------------------------------|-------------------------------------|
| Paper 1 | (B.E./B. Tech)                      | Physics, Chemistry & Mathematics   | Objective type with equal weightage | Pen & Paper Based Or Computer Based |
| Paper 2 | B.Arch/ B.Planning (other than IIT) | Maths - Part - I<br>Aptitude Test - Part - II<br>Drawing Test - Part - III | Objective type<br>Drawing Aptitude  | Only Pen & Paper Based              |

## JEE - ADVANCED

JEE-Advanced is for admission on to Indian Institutes of Technology (IITs), and Indian School of Mines, Dhanbad. Student's has to qualify for the JEE-MAIN

### JEE - MAIN EXAM PATTERN

| JEE - Main paper | SUBJECTS  | No. of QUESTIONS | TOTAL MARKS |
|------------------|-----------|------------------|-------------|
| Questions : 75   | PHYSICS   | 25 questions     | 100         |
| Marks : 300      | CHEMISTRY | 25 questions     | 100         |
| Duration : 3hrs  | MATHS     | 25 questions     | 100         |

### QUESTION TYPES IN EACH SUBJECTS:

|                            |    |
|----------------------------|----|
| Multiple Choice Questions  | 20 |
| Numerical Answer Questions | 05 |

\*negative marking 33% only for MCQs

# ENGINEERING AS A CAREER

For Paper 1:

| Time Duration | Subjects    | No. of MCQ                  | Marks per Question | Marks |
|---------------|-------------|-----------------------------|--------------------|-------|
| 3 Hours       | MATHEMATICS | 30                          | 04                 | 120   |
|               | APTITUDE    | 30                          | 04                 | 160   |
|               | DRAWING     | QUESTION ON DRAWING (ANY 2) | 35                 | 70    |
|               | TOTAL       |                             |                    | 360   |

Is there any negative marking?

Yes. 1/4th mark will be deducted.

What is the difference between JEE-MAIN and Advance?

Student has to crack JEEMAIN for qualifying JEE-Advance.

Admissions to IITs will be based only on category-wise All India Rank (AIR) in JEE ADVANCED, subject to condition that such candidates are in the top 20 percentile (category wise) in their respective Boards/Qualifying Examinations.

MHT-CET (for Government and Private Engineering Colleges In Maharashtra)

The Government of Maharashtra conducts a single Common Entrance Test MHT-CET for Sections to all degree courses in Engineering / Technology courses. For selection to Engineering / Technology degree courses, The Directorate of Technical Education (DTE) Mumbai are the Competent Authorities. The application form will be available on the following web sites: [www.mhcel-exam.co.in](http://www.mhcel-exam.co.in), [www.dtemahaashtra.gov.in](http://www.dtemahaashtra.gov.in)

What is the test exam pattern for MHT-CET?

| Time Duration | ENGINEERING |               |       |
|---------------|-------------|---------------|-------|
|               | SUBJECTS    | NUMBER OF MCQ | MARKS |
| 90 min.       | PHYSICS     | 50            | 50    |
|               | CHEMISTRY   | 50            | 50    |
| 90 min.       | MATHEMATICS | 50            | 100   |
| 180 min.      | TOTAL       | 150           | 200   |



# OUR TOPPERS

## Our 2020 Toppers



**SIDHARTH  
VARIER**

**94.92%  
SIES COLLEGE**



**HRISHIKESH  
SHINDE**

**JEE - 91.39%  
KIRTI COLLEGE**



**ASHEETI  
PATIL**

**89.53%  
RUIA COLLEGE**



**MANAV  
DAGGULA**

**88.61%  
SIES COLLEGE**



**JEEVEN  
BHADANE**

**86%  
D.G. RUPAREL  
COLLEGE**



**NISHA  
MOURYA**

**85.85%  
D.G. RUPAREL  
COLLEGE**



**KHUSHBOO  
YADAV**

**MATHS : 94  
D.G. RUPAREL  
COLLEGE**



**KRUPA  
PATIL**

**MATHS : 91  
D.G. RUPAREL  
COLLEGE**



**PAVAN  
ADEPU**

**COMP-SCI: 195  
SIES COLLEGE**



**AVINASH  
PATTURAJAN**

**MATHS : 89  
SIES COLLEGE**



**KIRAN  
MATHIYARAGAN**

**MATHS : 86  
WILSON COLLEGE**



**REKHA  
MANGALPELE**

**BIOLOGY : 84%  
SIES COLLEGE**



**DARSHAN  
SAWANT**

**BIOLOGY : 84%  
SIES COLLEGE**



**HARSH  
PENDURKAR**

**BIOLOGY : 83%  
KHALSA COLLEGE**



**GAURANG  
JATHAR**

**BIOLOGY : 81  
RUIA COLLEGE**



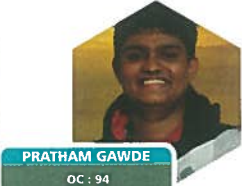
**85.85%  
NISHA MOURYA**

**BK : 89  
OC : 89  
ECO : 88  
SIES COLLEGE**



**84%  
PREETI GUPTA**

**OC : 88  
BK : 87  
MATHS: 87  
KHALSA COLLEGE**



**PRATHAM GAWDE**

**OC : 94  
ECO: 84  
MATHS: 82  
KHALSA COLLEGE**



**ANIL GUPTA**

**BK: 94  
ECO: 84  
MATHS: 84  
KIRTI COLLEGE**



**RAMAN YADAV**

**ECO : 82  
R.A. PODAR COLLEGE**



**AMAN DEVRUKHKAR**

**OC : 81  
SYDENHAM COLLEGE**



**PRATIK  
KALAMBE**

**MHT - CET - 95.12  
(Khalsa College)**



**BHOOMIKA  
PATEL**

**MHT - CET - 91.81  
(SIES College)**



**RISHABH  
SINGH**

**83%  
JEE - 80%  
MHT - CET - 88.46  
(D.G. Ruparel)**



**SURAJ  
YADAV**

**JEE - 86%  
(Dr. Antonio Da Silva  
College)**



**G. HIMA**

**NEET  
520**



**AJIT  
M.**

**PCM 90%**



**PRATHAMESH  
V.**

**90%  
MIT  
PUNE**



**AASHITA  
KUDKYAL**

**89%  
(R.A. Podar)**



**MAYURI  
ABNAVE**

**89%  
(R.A. Podar)**



**KIRAN  
K.**

**88%  
MIT  
KARNATAKA**



**DARSHAN  
VHATKAR**

**88%  
(R.A. Podar)**



**AVINASH  
VAYKUL**

**87%  
(D.G. Ruparel)**



**MADHURA  
SALUNKE**

**87%  
(R.A. Podar)**



**AISHWARYA  
PEDNEKAR**

**88%  
(R.A. Podar)**



**PRANAY  
MOHOKAR**

**88%  
(R.A. Podar)**



**AMISHA  
CHAVAN**

**88%  
(Jai Hind)**



**ROHAN  
AUKIRKAR**

**85%  
(D.G. Ruparel)**



**HARSH  
JAIN**

**88%  
(K.C. College)**



For More Info.



To +91 8108106737



  
**VINAYAK CLASSES**  
DEGREE & DIPLOMA ENGINEERING

**WORLI**

Shri Sidhhi Sagar Ghruha Nirman,  
Society, Shop No.22, Belani Nagar,  
Worli Gaon, Mumbai :- 400030  
8108181737

**DADAR**

401, Laxmi commercial center,  
senapatibapat Marg,  
Near Manish Market,  
Dadar (W)  
8108106737

**SION**

Shop No. 15-16, 'A' Wing,  
Om Shiv - Sai CHS. Ltd.  
Next to Runwal  
& Omkar Esquare Sion (E).  
24023778/ 24033778

.....THINK EDUCATION .....THINK VINAYAK!!!