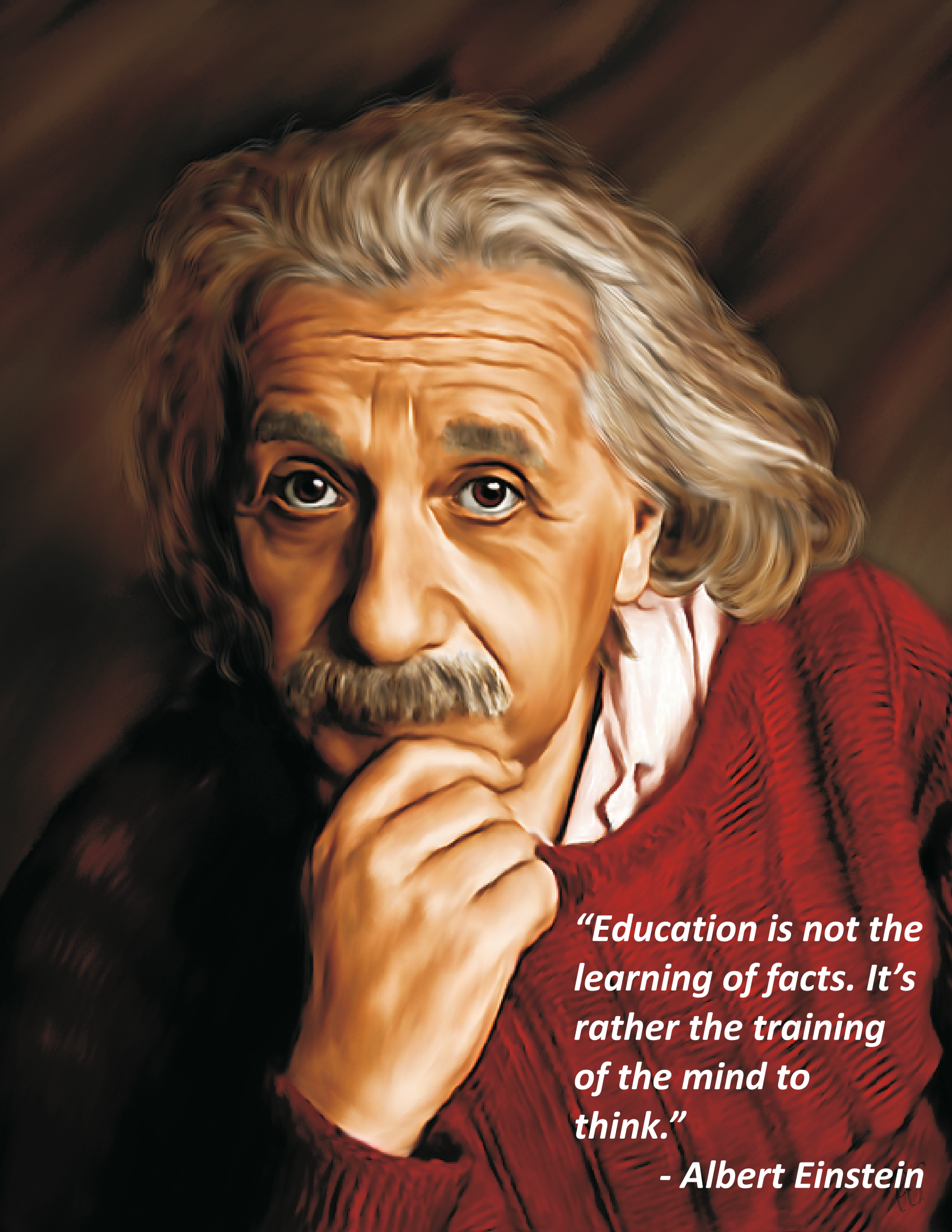# CALIBRANT CLASSES

Where Every Student Matters

XI - XII
Engineering and Medical Entrance

"Education is not the learning of facts. It's rather the training of the mind to think."

- Albert Einstein

" *The secret in education lies in respecting the Student.* "

About Us

CALIBRANT is an organization co-founded by two engineers which aims at building a better India by providing high quality Education to the budding XI and XII science students of our country.

The vision of the organization is to improve the quality of Education in our country. This vision derives itself from the belief that Education has the power to transform and change a person's life and hence the country's future. Our expertise lies in Science, Engineering and Medical entrance exam coaching and that's where we begin.

Times have changed and so has the meaning of Education. From ancient times when teaching was considered a sacred space, to today where it has been left just as a business. Most coaching classes follow what is called as the "*Business Model*". However, keeping in mind our experiences both as students and as professors we have come up with what we call the *"Student Model".*

In this model the Student remains as the main focus in everything we do. Right from our teaching methodology to our administration and infrastructure, everything is decided keeping the student in mind.

We believe that the choice you, as a Parent make today at this crucial juncture of your child's life is what will determine his performance not just at the HSC boards and the entrances but for the rest of his career. These two years - Std. XI & XII, would set the foundation for all their future courses and thus it is important that they learn in the right way. As your child moves into this most crucial leg of his/her academic career, it is important for him/her to obtain the right guidance and mentorship.

And this is what we at Calibrant provide our students. This is what our Student Model is all about.

CALIBRANT was born...

✎ **To IMPLEMENT the Student Model**
✎ **To PROVIDE the best teaching to the students**
✎ **To EDUCATE future professionals who will shine**

Why Engineering?

VJTI

ICT

VESIT

SPIT

D.J. Sanghvi

Fr. Agnel

The world is using hardware.
Smartphones, planes, cars, TVs, laptops, tablets, switches, routers, scanners, drones, 3-D printers, robots, manufacturing equipment, someone needs to design these things. Someone needs to build these machines. Someone needs to figure out the circuitry, the storage, the wiring, the plastic, the glass, the packaging, the portability and how the data gets in and how the data gets out. This is what engineers do. They build hardware. They build every single device we use, from remote controls to bullet trains.

The world is using software.
And what runs all of these devices? Software. Things are no longer inanimate. They have life. They think. They move. They detect. They respond to our requests and do our bidding. They go higher into the sky and dive deeper into the ocean. They talk to each other. They avoid other things. They learn. Every bit of hardware needs software to tell it what to do. Engineers write this software.

The world is getting older.
With the advancement in technology and the hectic lifestyle of the working population there will be no one left to take care of the aged. They will need care. They will need pharmaceuticals. They will need new body parts. They will need machines to help their hearts beat and their lungs to breathe. They will need aids to help them walk and eat. Engineers make these things.

The world is getting bigger.
Today the world's population is 7.1 billion people. In the next 30 years the population is expected to increase to 9.6 billion. The population of India alone will rise from 1.2 billion in 2014 to 1.6 billion in 2050. More people will require more roads, more bridges, more tunnels, better transportation systems, higher buildings, comfortable homes, safer cars, faster planes and better infrastructure. Engineers will also make these things.

The world is getting more competitive.
Worldwide deaths from battle have plunged from 300 per 100,000 people during World War II to less than one in the 21st century. Most countries have realized the benefit of peace. So they're investing in education. They're building better products. And they are searching for smart people, like engineers, to help them to do this. They are trying to over power each other through the use of advanced technology and space research. They need engineers to create machines that will assist them in doing the same.

Finally, the world needs more entrepreneurs.
Being an engineer means you're technical. But if you've got other skills like analytical, marketing, communications, sales, and finance or legal you can build off your engineering background to run companies, motivate teams, educate groups and lead the effort to innovate and make the world a better place. Look around at the CEO's of our most exciting new startups, the investors in our greatest companies, the partners of our smartest law firms, the business owners who make up the backbone of our country's economy and you'll find engineers who have the ability to manage other technical people because they are technical themselves.

Are you smart enough to endure the rigors of a degree in engineering? Are you patient enough to learn the technicalities of the profession you've chosen? At that point will you be comfortable just doing your job, coding, designing, building and fixing? Or will you be the type to take those skills and build a team around you to create more stuff. If the answer to any of the above is yes, then Engineering is the right career for you!!!

To 'engineer' literally means to "make things happen". Engineering is about the design and production of useful products and services. Many seemingly simple aspects of our daily lives have been conceptualized, designed and developed by an engineer. The world needs engineers.

Why Medical?

KEM

GDC

GMC

KJSMC

TNMC

The ability to cure people and make them happy.
The progress of the human kind and civilization is the purpose of almost all of the degree college programs. Medicine participates in this process in the most direct way. The most doctors would say that there is no greater joy than the one you feel when you manage to help a very sick patient or when a group of scientists discovers a new medicine for a certain disease. The ability to directly help the curing process is also a challenge and sometimes it is not easy to cope with it

Working with people.
A lot of students name working with people as their primary reason to study medicine. If you are a people person, medicine is the right choice for you. It is of vital importance to stress that to work with people you absolutely must have a great deal of tolerance towards endangered social groups, e.g. the old and disabled. Not only during your studies, but also later in hospitals, you will meet a lot of people besides patients - patients' families, medical staff, technicians, administrators etc. As a part of you medical training you will also learn not to form bonds towards patients and their diagnoses or faiths, which is an extremely delicate problem especially when it comes to children.

Respect in society.
Whether we want to admit it or not, doctors are always on the top of the social scale. Whether you go to the theater or to the cinema you should know that you will be noticed. This also represents a great responsibility because it is not seldom that a doctor is also a moral authority, especially in smaller places.
This respect in society is a major factor while choosing the field of medicine for some people.

A great need for doctors.
World needs more doctors. There are differences in numbers and need for doctors in different countries. A lot of countries that have forbidden or restricted employment of foreign citizens do not apply this decision on doctors. There is great uniformity in medical science. Thus upon graduating from a medical college you can work in any hospital all around the world unlike some human sciences.

Plenty of opportunities upon graduating
This reason is rarely stressed properly, but it truly is so. After graduation there is a broad range of opportunities for future job. In case you find none of the possibilities appealing, you can combine them or invent your own path of further specialization. Upon finishing medical college you can choose to work in hospitals, science institutes, public health care or be part of the medical segment of some other science. There are doctors who are managing health care costs in economical sciences, or cooperate as a part of judicial sciences in proving medical errors and patients' rights.

Safe job, career, and lifestyle
Another reason to study medicine is a certain stability upon graduation and the idea of having your own clinic and work timings after gaining some initial experience in the field.

Are you strong enough to endure the rigors of a degree in medicine? Are you patient enough to learn the technicalities of the profession you've chosen? Are you ready to face challenges on a day to day basis? Are you ready to save some lives and make a difference to many more lives? If the answer to any of the above is yes, then Medicine is the right career for you!!!

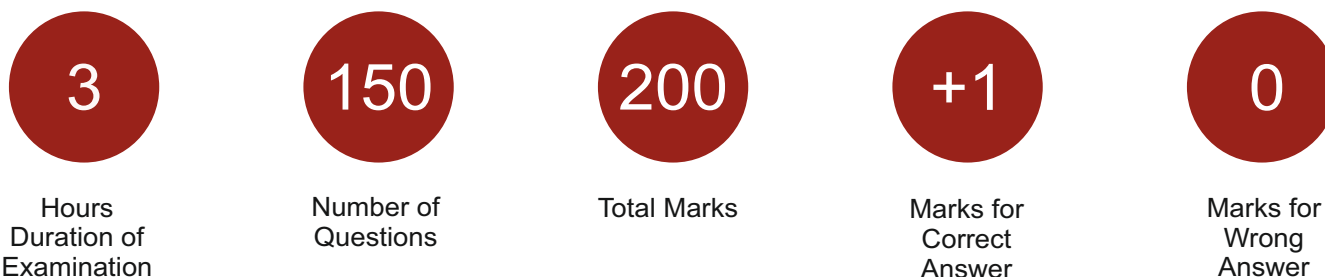"The best way to find yourself is to lose yourself in the service of others."

-Mahatma Gandhi

# CET Entrance - The Gateway to Engineering and Medical!

Previously, in order to grab a seat in Engineering, a nationalized exam called as the **Joint Engineering Entrance or JEE Main** was conducted. The students of the Maharashtra board were at a disadvantage due to the CBSE nature of the syllabus. Thus the Maharashtra government has backed out from the JEE exam and reintroduced the **Common Entrance Test** also known as **MHT-CET**. Below are some of the differences between the JEE Main exam and the new MHT-CET exam :

JEE Main (Scrapped)	MHT-CET
Conducted by the Central Government (CBSE)	Conducted by the State Government
National Level Exam	State Level Exam
XI and XII std. CBSE Board syllabus	Only XII std. HSC Board syllabus
Eligible for admission in National level Institutes as well as those in Maharashtra	Eligible for admission only in Maharashtra
More than 16 Lakh students appear	Approximately 3 lakh students appear
Negative Marking	No Negative Marking
Higher level of difficulty	Lower level of difficulty

MHT - CET Exam Format :

3	150	200	+1	0
Hours Duration of Examination	Number of Questions	Total Marks	Marks for Correct Answer	Marks for Wrong Answer

On clearing the MHT-CET exam, the student is eligible for admission to different engineering colleges as mentioned below :
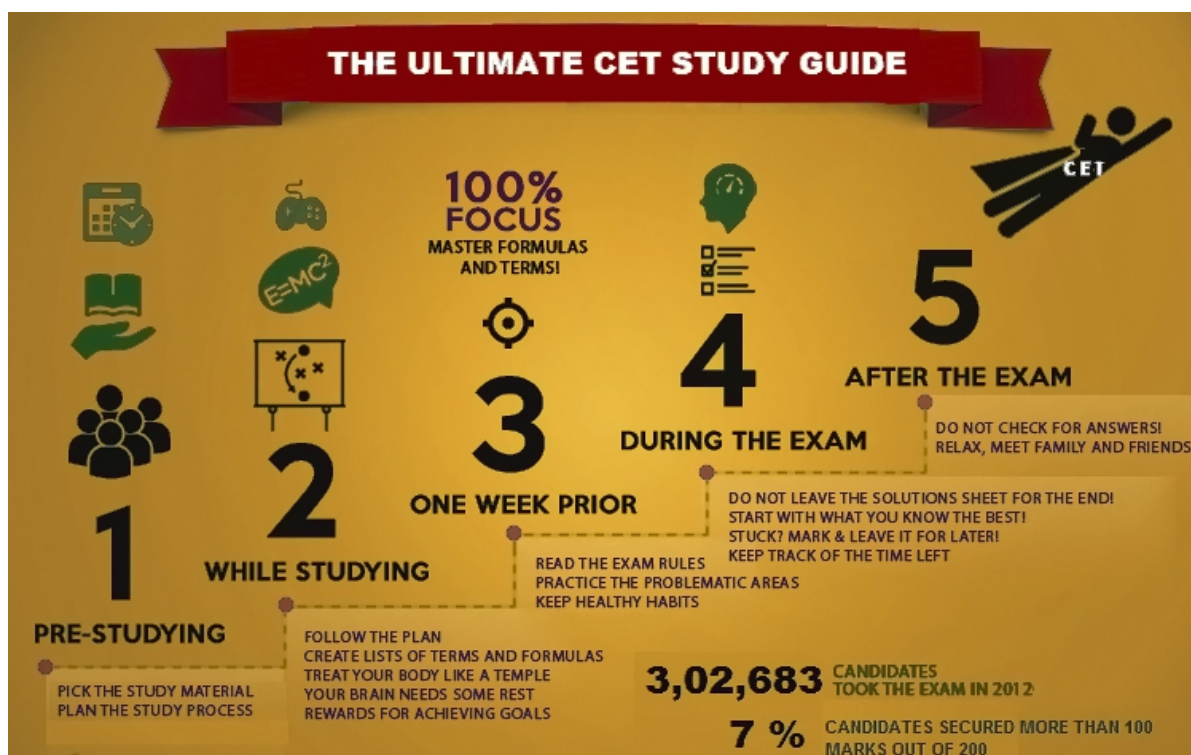
More information available at : **www.dtemaharashtra.gov.in**

Introducing the STUDENT MODEL...

Professors

Teaching Methods

C

Progress Tracking

Administration
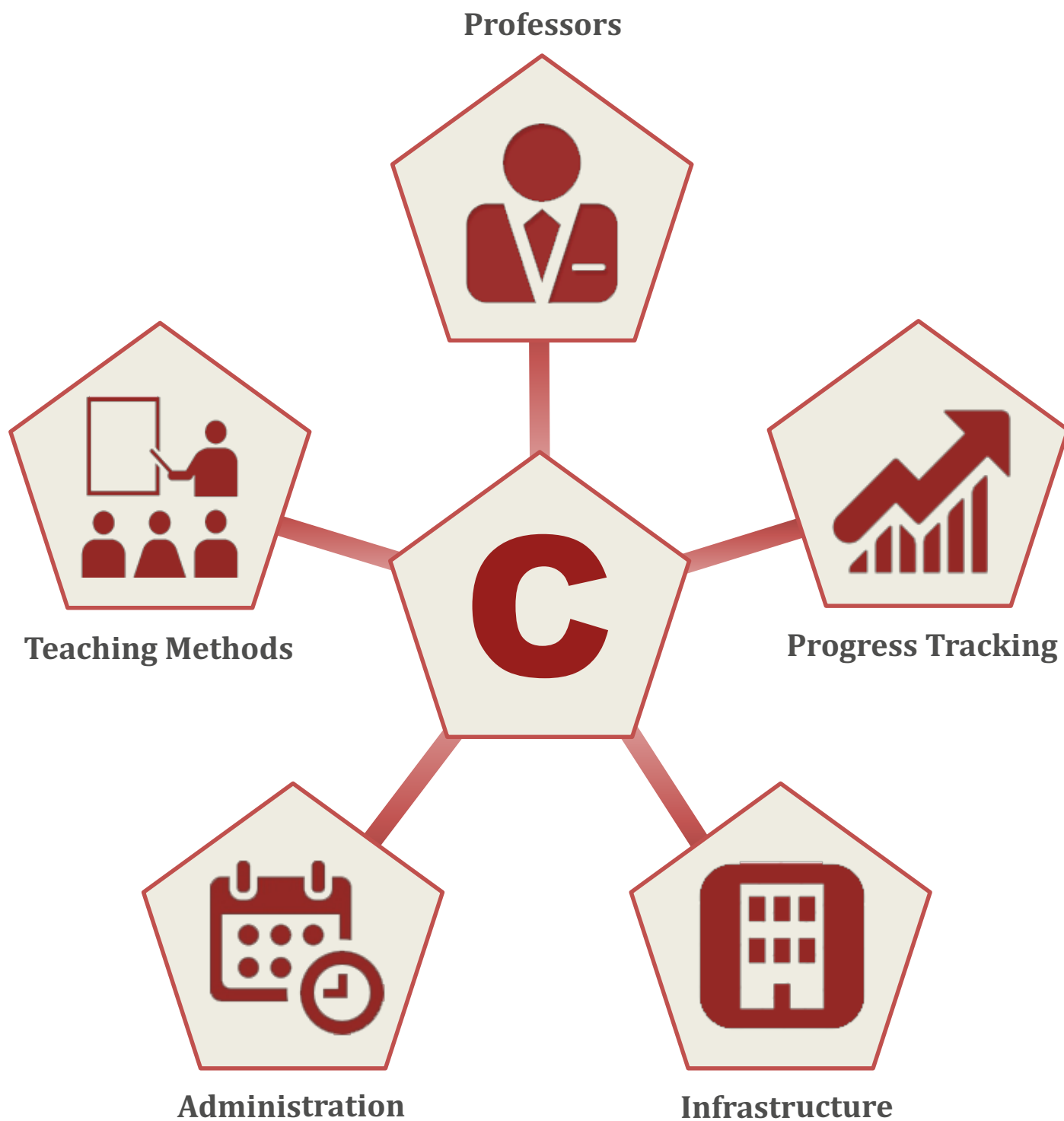
Infrastructure

- ❖ Full Time Faculty
- ❖ Innovative Teaching
- ❖ Robust Administration
- ❖ Personalized Mentorship
- ❖ Close Performance Monitoring
- ❖ Student Friendly Infrastructure

Professors

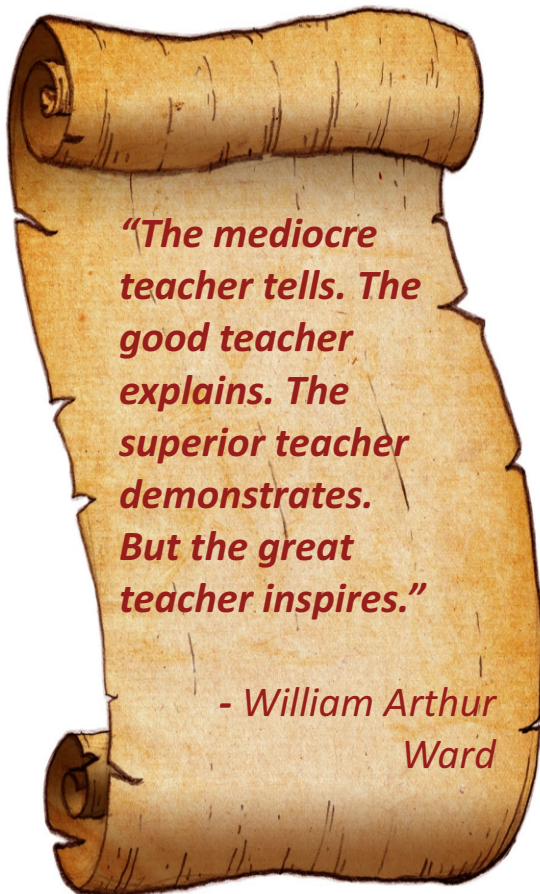| QUALIFICATION	• Engineering Graduates from Mumbai's Top Engineering Colleges • Trained in Cognitive Science Studies

AVAILABILITY	• 100% committed to Calibrant alone • Round the clock availability for the students • No Generation Gap, Easier to approach

| MENTORSHIP	• Each professor will be assigned 10 students per batch • Mentorship will be provided in all areas including study planning, time management and even health care

"The mediocre teacher tells. The good teacher explains. The superior teacher demonstrates. But the great teacher inspires."

- William Arthur Ward

Qualification - Our professors are highly qualified engineering graduates from Mumbai's top engineering colleges. This is a great motivation for the student that we are worthy of showing them the right path to their destination and be the gateway to their dreams. We wish to be an inspiration for your child.

Our professors are also trained in cognitive science studies. Cognitive Science is the discipline which deals with the study of the human mind & brain. It includes topics like Attention, Knowledge and processing of language, Learning and Development, Memory and Perception & Action. This enables us to develop our teaching material and our lectures in a scientific manner to enable the student to grasp faster, retain better and also think broadly.

Availability - Our professors, unlike other institutes, are committed to Calibrant alone. No other coaching class, no school, no college! Hence, we are available for the student round the clock.

Also, the generation gap is not present between the student and us. This ensures that there is no disconnect between them and us. We understand their problems much faster and more naturally. This makes us more approachable than traditional teachers.

Mentorship - Each professor will be assigned 10 students per batch. This professor will be the single point of contact for the student. He or she will provide personalized mentorship to the student in all areas including study planning, time management and health care. That's right - health care is also important because as the saying goes - "A sound mind in a sound body". The mentor will regularly follow up with his or her mentees. We believe that come what may no student should be left out and hence using this model we ensure that every student gets the right guidance.
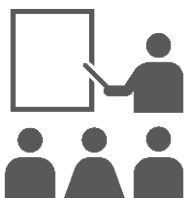
Teaching Methods

Normalization Programme :

The students come from different schools, have gone to different classes and may also belong to different boards (ICSE, CBSE, SSC etc). As a result, it has been observed that the knowledge and understanding level of certain basic concepts among the students is highly varied. Once the main course begins, the smart students who studied well go ahead but the weak students suffer and they are left behind.

To tackle this we begin our course with a 21-day 'Normalization Programme'. This programme will help to make the basics strong and consistent across all students irrespective of which school, coaching classes or board they came from and also irrespective of how much they knew before. We will ensure that every student has understood all the basic concepts clearly and only then will the main course begin. This also makes it easier for the professors to teach more difficult concepts on top of a strong foundation.

The STUDENT is our main FOCUS:

Keeping our past teaching experiences in mind, we realized that there are some common problems that are faced by most students. Thus in order to help the student we implement the following:

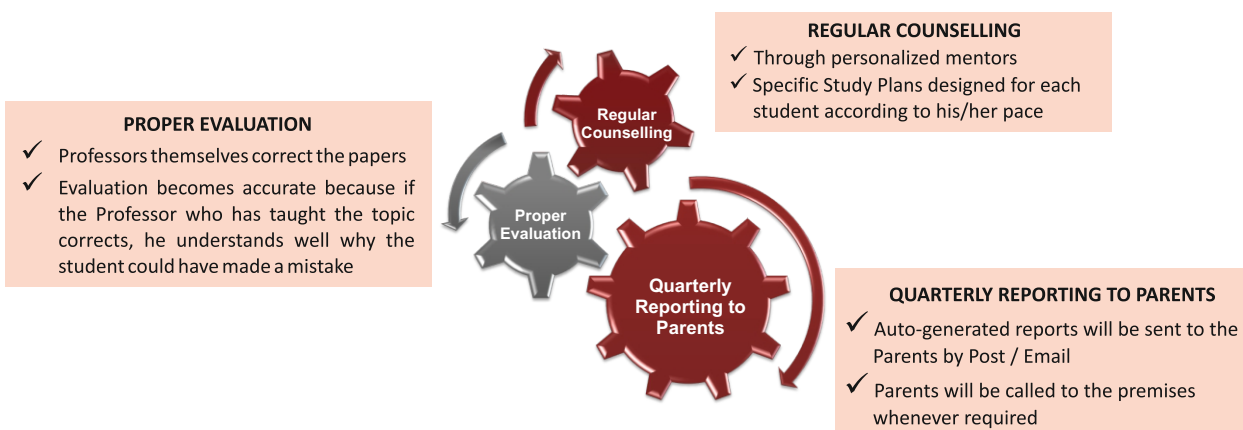| The pace of every student is different	Students have doubts all the time	Students need time for self study
Specific Study Plans Specially designed by the mentors for each student according to his or her pace	**Doubt Solving Sessions** Held after every chapter and test. Special care taken to ensure that the concept is made clear	**Self Study Time** Provisioned within the schedule so that the student gets sufficient time for self study and planning

To help facilitate the UNDERSTANDING and RETENTION of challenging concepts, we have incorporated the following :

EVOKING LOGICAL REASONING	DUAL TEACHING METHOD	MINIMUM MATERIAL
• Interesting and practical oriented teaching • More concept based Homework • Live Experiments in the class to better understand certain topics • Science Mania - Collection of 500+ Science Videos	• For difficult topics, two professors in a lecture-main and subordinate • Subordinate teacher asks doubts which students should have asked • Helps in deep & clear understanding of the topic	• Less is More • Minimum overlapping material • Easier to memorize and avoids confusion in the mind of the student • Certain teaching material taken from MIT, Stanford

Progress Tracking

We assess each student's capabilities on a regular basis during his/her study period with us, and our teaching systems and assessment methodologies ensure that each student is striving to be his very best every single day. The assessment will not only be shared with the student but will be sent to the parents as well.

PROPER EVALUATION
- ✔ Professors themselves correct the papers
- ✔ Evaluation becomes accurate because if the Professor who has taught the topic corrects, he understands well why the student could have made a mistake

REGULAR COUNSELLING
- ✔ Through personalized mentors
- ✔ Specific Study Plans designed for each student according to his/her pace

Regular Counselling

Proper Evaluation

Quarterly Reporting to Parents

QUARTERLY REPORTING TO PARENTS
- ✔ Auto-generated reports will be sent to the Parents by Post / Email
- ✔ Parents will be called to the premises whenever required

Administration

As it is popularly said, *"A Goal without a Plan is just a Wish!"* Thus in order to help the students plan their studies and reach their goal of achieving success it is important they know their lecture and test time tables well in advance. We at Calibrant ensure that these schedules are provided to the students and parents well in advance.

ADVANCE LECTURE TIME TABLE	ADVANCE TEST TIME TABLE	ADVANCE HOLIDAY TIME TABLE

Infrastructure

Special attention has been given to important aspects to make the learning environment comfortable and pleasant for the student.

❑ **Pad Chairs** - Student comfort is Calibrant's top priority. And this also extends to the seating arrangement. Hence, keeping this in mind, we have designed pad chairs with cushions which are comfortable for the students especially when they have to sit for long lectures.

❑ **Qitaab** - Apart from our 'minimum common material', a student may want to go through certain books to enhance their knowledge or out of their love & interest for the subject. To encourage this, we have "Qitaab" which is our in-house collection of the world's best reference books for Physics, Chemistry and Mathematics.

Why Calibrant?

	Calibrant	Others
Focus	Only on the Student	Partially on the student, more on business & expansion plans
Batch size	Maximum of 20 students	Minimum of 60 students
Professor Availability	Round the clock – no other commitments	Only during the lecture
Personalized Mentorship	Provided to each and every student by a professor	None whatsoever
Normalization Programme	Yes – The basics are made strong and consistent before the main course begins	No - The smart get smarter and the weak get weaker
Study Plans	Specific to each student	Generic plan for all students
Doubt solving sessions	Immediately after the chapter is taught	Only one month before exams
Self Study	The course structure leaves ample time	The course structure leaves little time
Dual Teaching Method	Yes - novel practice adopted by esteemed universities like Stanford, MIT	No - traditional single teacher approach
Paper Corrections	Done by the subject teacher	Outsourced to unqualified office staff
Quarterly Reporting	Auto-generated Reports will be sent to Parents by Post / Email	Effective Reporting is not provided
Time Table	Provided in advance. Helps students plan	Provided sometimes daily. Discourages planning
Technology Leverage	Improves processes, tracking and makes administration easier	Manual activity and Administrative Risk involved
Classroom Design	Specially designed for the comfort of each student	Designed to fit maximum students in minimum space
Counselling	Regularly provided	Seldom provided

THE FOUNDERS

Madhvi Bhagat - *An I.T. Engineer from D.J. Sanghvi College of Engineering, which ranks among the top 3 engineering colleges of Mumbai. Thereafter pursued her MBA in Finance at K.J. Somaiya Institute of Management Studies and Research (SIMSR). A teaching experience of over 4 years at Private Tuitions is what led her to do something profound for the benefit of the student community and Education as a whole through Calibrant.*

Gaffney Mendonsa - *A Computer Engineer from Sardar Patel Institute of Technology which again ranks among the top 3 engineering colleges of Mumbai. Thereafter worked as a Technical Team Lead at Indus Valley Partners (IVP). Also had a good teaching experience having taught Physics and Maths at a coaching class. His love and passion for teaching and training the youth has driven him towards building Calibrant.*

Calibrant Classes Pvt. Ltd.

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