

DYPIEMR

MAY Blog 1 - How to Choose the Best Engineering Branch After Class 12th?

"Scientists discover the world that exists; engineers create the world that never was."

- Theodore Von Kármán

Engineers are creators of goods and services that are vital to every economic sector. With their imagination and technical expertise, they create things that were once deemed to be impossible. Machines, technology, infrastructures, digitalization, have become important facets of our life. Engineers are needed at various stages in the production, distribution, and maintenance of these facets. This means all the machines, infrastructures, technology that we use each day, is a result of the expertise of engineers from various fields. From this, we can also gauge the scope of career options that are available to them.

Students often face the dilemma of choosing the best-suited field after class 12th. The decision that they make at this point is crucial as it forms the basis of their entire career. They are bombarded with multiple career options. Hence, researching all the aspects of the preferred field and making an informed decision is necessary. Especially if you are thinking of pursuing an Engineering Degree. An Engineering Degree is one of the most popular educational choices of students after 12th. It is also a degree that offers various specializations. Choosing this field blindly just because it's popular or because someone else asks you to, can be disastrous for your career. At the same time, a well-researched career choice in this field can lead to a successful career. This blog contains information about the field of Engineering, various specializations that are offered along with the factors that aspiring students must consider before choosing this field. Let's delve right into it!

Which is the Best Engineering field for you?

Until now very few engineering fields were popular amongst students. Mechanical, Electrical, Civil, Instrumentation and Control, and Chemical Engineering were some of the most frequently opted engineering fields. But this scenario has changed over time. Many new engineering fields are emerging along with a wider career scope across industries. Including various aspects of health, technology, space, automobiles, machines, infrastructures, amongst others. These specializations offer training in niche areas. Depending upon your preferences and career expectations you have many options to choose from. There are numerous engineering specializations in India. Here's a list of the major engineering branches to help you decide the best-suited field!

1. Aerospace Engineering
2. Civil Engineering
3. Aeronautical Engineering
4. Aircraft Maintenance Engineering

5. Mechanical Engineering
6. Electrical and Electronics Engineering
7. Instrumentation Engineering
8. Computer Science and Engineering
9. Electrical Engineering
10. Instrumentation and Control Engineering
11. Petroleum Engineering
12. Metallurgical Engineering
13. Chemical Engineering
14. Bio-Medical Engineering
15. Electronics and Communication Engineering
16. Electronics and Instrumentation Engineering
17. Genetic Engineering
18. Petrochemical Engineering
19. Textile Engineering
20. Marine Engineering
21. Mechatronics Engineering
22. Biotechnology Engineering
23. Mining Engineering
24. Power Engineering
25. Production Engineering
26. Robotics Engineering
27. Construction Engineering
28. Structural Engineering
29. Environmental Engineering
30. Transportation Engineering

How to Choose the Best Engineering Branch After Class 12th?

The period between the announcement of 12th board results and college admissions is very crucial but it can be quite daunting too! Students are often confused due to the tremendous amount of information available online. Hence, we have compiled a set of parameters that you need to consider before selecting an appropriate engineering stream.

Top 9 Tips to Choose the Best Engineering Branch after Class 12th, Let's take a look at them:

- **Available career options**

While choosing any field it's necessary to research all the available career options. This applies while choosing a specialization in Engineering too. Though every Engineering field has tremendous career scope, researching it and finding the scope in your preferred area is inevitable. Students must also consider the scope for higher studies in their preferred area. Thinking about the job scenario and the demand for your field in the global market should also be considered. Most of the engineering fields are interconnected due to some shared subjects in degree education. But some

specializations also share some of their subject matter allowing a greater job scope. Students often miss out on checking these available options of interconnected specializations. This allows experimenting with their career as well as a greater scope of career expansion.

- **Prominent colleges offering your preferred specialization**

While finalizing the Engineering field, students must also take into consideration the prominent colleges and institutions that offer their preferred program. Considering the quality of education of the college, its affiliations, alumni experiences, etc. can help in making a decision. Some Engineering fields can be rare leading to them being available at selected institutions. In such cases, students must find out all the necessary information related to the admission process, eligibility criteria, entrance exams, curriculum offered, etc. and start preparing for the same well in advance. Checking college websites and brochures thoroughly before making a decision is advisable.

- **Location of the College/Institute**

Considering the location of the college or institute that offers your preferred course is essential. The location of a college, its campus life, ambiance, and the overall campus atmosphere play a significant role in a student's life. It can have both positive or negative impacts on education. Also, considering the proximity of the college from one's residence or hometown is essential. Hence, it's important to research on this factor before selecting an institution.

- **Facilities available**

The quality of education and the facilities imparted by the college together constitute the student's learning experience. After considering the educational factor and location of the college on needs to research facilities that are offered. This includes the libraries, laboratories, technologically advanced learning facilities, placement cell, institution's industrial tie-ups, a combination of theoretical and practical education, hostel facilities etc. Considering the extra-curriculum activities and overall developmental activities that the college offers is also important.

- **Faculty**

A competent faculty can help students advance their careers substantially. An experienced faculty makes the learning process extremely smooth and enjoyable. It also leads to an in-depth knowledge of the preferred field. Students need to research the faculty that will teach them, well in advance.

- **Your passion**

Whichever Engineering field is chosen by the student, he/she shouldn't neglect their passion. One's passion is extremely important to keep going and achieve success in the preferred field. Without passion, even high paying jobs might seem monotonous and boring. Hence, make a choice that combines your career aspiration with your passion.

- **Job opportunities**

Each Engineering field has a lot of job opportunities to offer. But as discussed earlier, some fields are relatively new and undiscovered, allowing greater job opportunities and high payment. Some fields have fewer job openings comparatively. Considering these factors before choosing a relevant field is important.

- **Consider the target result.**

Whichever specialization you choose, considering the result of it is always important. There are high chances of a field being relevant currently with high job openings, but studying its relevance in the future market and then making a decision is advisable.

- **Nature of the job.**

Some engineering fields offer jobs that demand long working hours, working on field or sites etc. Consider if these factors coincide with your job expectations before making a decision.

Once you have considered all the above parameters in order to make a more informed decision, you can also consult a career expert or a career counselor.

Conclusion:

Why Choose Dr. D. Y. Patil Institute of Engineering, Management & Research, Akurdi?

Dr. D. Y. Patil Pratishthan's Educational Complex, Akurdi is in proximity to Pimpri Chinchwad Industrial belt, IT Park of Hinjewadi & Automobile hub of Talegaon. The Pratishthan is spread over 29 acres of land at Akurdi, which is in the vicinity of Akurdi Railway station & Mumbai - Pune Express highway. Its initiative, [Dr. D. Y. Patil Institute of Engineering, Management & Research](#), Akurdi (DYPIEMR) offers various bachelor's degree programs in Engineering. Various world-class facilities, [an excellent placement cell](#), and a combined theoretical and practical curriculum makes it the best choice for seeking an Engineering degree. To enhance the teaching-learning process the college is equipped with 'Digital Classrooms'. The college also provides other facilities under the title 'Best practices' for the overall development of students. These include 'Career Augmentation Training for Students', 'Industry Institute Participation Cell' etc. An Internal Quality Assurance Cell (IQAC) is setup at the institute level for framing policies to enhance quality in every activity.

To hone the technical skills of students, the college has a team of experienced and qualified faculty who are committed to serving students with untiring zeal and enthusiasm. Well-equipped laboratories to perform experiments and valuable hands-on experience is another special feature of the college. Hence, [Dr. D. Y. Patil Institute of Engineering, Management & Research](#), Akurdi is all set to provide professional engineers who are well trained in all aspects and prepared for the global market. So, if you are seeking an engineering career, Dr. D. Y. Patil Institute of Engineering, Management & Research, Akurdi is the best place for you.

Conclusion

Considering all the above factors and selecting your preferred engineering field can lead to a very well-planned and successful career. It offers a wide array of subjects for specialization and a myriad of job opportunities later. It also allows a lot of scope for experimentation in your career. Many emerging fields of Engineering have untapped opportunities for you to explore. So, an Engineering career with an appropriate specialization is your key to success.

Click away to advance your Engineering career!

For any more details fill up our form and ask your queries. Know more information about the courses offered, admission process and enrollment. Our admissions are open, what are you waiting for? Enroll yourself now and build a rewarding Engineering career in your preferred field!

Title – How to Choose the Best Engineering Branch After Class 12th?

Description - Top 9 Tips to Choose the Best Engineering Branch after Class 12th that you need to consider before selecting an appropriate engineering stream.