



ABHINAV
CAREER
SCOPE

Perfect Career Guide

Engineering



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Why Engineering??

Engineering degrees are highly respected and engineers are needed all over the world. An engineering degree doesn't just teach you how to be a great engineer, but rather a great manager, businessman and entrepreneur. Engineering is a broad field that offers exciting career opportunities where you'll get to be creative, solve problems and explore how things work everyday.

The course itself can offer variety of specialties. Engineering is not just a degree but a way of thinking.



What Does An Engineer Do?

An engineer applies scientific and mathematical principles to design, develop, and maintain systems, structures, and processes across various industries. Engineers can specialize in diverse fields such as civil engineering, electrical engineering, mechanical engineering, aerospace engineering, and many others. They are responsible for conceptualizing, planning, and executing projects, ensuring they meet safety standards, regulatory requirements, and are economically viable. Engineers may work in various settings, including corporations, government agencies, research institutions, and consulting firms, collaborating in multidisciplinary teams to address complex technological and societal challenges. Their work is characterized by a combination of analytical thinking, creativity, and a dedication to improving the efficiency, safety, and sustainability of systems and technologies.

How To Become An Engineer ?

Academic Qualifications:

- Standard XII (10+2) pass or equivalent examination in Science Stream (with PCM subjects) from any recognized board with minimum of 50% or 75% marks in aggregate or equivalent grade (45% marks or equivalent grade for Scheduled Caste/Scheduled Tribes). Along with this, score in JEE and / or MHT-CET is required

Exception :- For some of the engineering streams like Biomedical & Biotechnology Engineering, one should have studied Biology as one of the subjects in class 12.

- Three Years Diploma of Board of Technical Education Conducted by Govt of Maharashtra
- Selection Process in many colleges / universities is through Entrance Test.

Different Branches In Engineering

Top Branches:

- Computer Engineering
- Information Technology
- Electronics & Telecommunication
- Mechanical Engineering
- Civil Engineering
- Electronics Engineering
- Chemical Engineering
- Electrical Engineering

Other Branches:

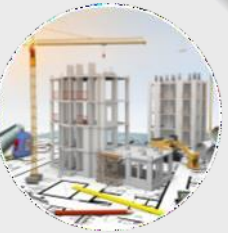
- Artificial Intelligence
- Artificial Intelligence & Data Science
- Artificial Intelligence & Machine Learning
- Internet Of Thing & Cyber Security
- Software Engineering
- Automation & Robotics
- Computer Science & Engineering
- Bio Technology
- Aerospace Engineering
- Metallurgy & Material Technology
- Manufacturing Science & Engineering
- Instrumentation & Control Engineering

Broad Classification Of Engineering Branches

Hard Core Branches: Civil Engineering, Mechanical Engineering, Electronics & Telecommunication, Computer Engineering, Electrical Engineering etc.

Specialized Branches: Chemical Engineering, Instrumentation Engineering, Information Technology, Automobile Engineering, Production Engineering etc.

Super Specialized Branches: Marine Engineering, Metallurgy Engineering, Bio Tech Engineering, Mining Engineering, Textile Engineering, Aeronautical Engineering, Printing Engineering, Petroleum Engineering etc.



How To Select A Branch?

SOME CRITERIAS FOR SELECTING A BRANCH

TENTATIVE CAREER GOAL

- GOVERNMENT SERVICE – INDIAN ENGINEERING SERVICE
- GOVERNMENT SERVICE – PUBLIC SECTOR CO'S
- BUSINESS, JOB, ABROAD, RESEARCH, TEACHING, JOB IN SERVICE SECTOR, MANUFACTURING

DAY TO DAY RISK INVOLVED

- MINING, PETROLEUM, CHEMICAL, ELECTRICAL, Etc. – HIGH RISK
- CIVIL, MECHANICAL, AUTOMOBILE, TEXTILE, Etc. – MEDIUM RISK
- COMPUTER, IT, E&TC, Etc. – LOW RISK

How To Select A Branch?

FREQUENT RELOCATION REQUIREMENT

- MINING, CIVIL, PETROLEUM etc. – HIGH
- COMPUTER, IT, BIOTECHNOLOGY etc. – MODERATE
- MECHNICAL, AUTOMOBILE, E&TC, TEXTILE etc. – LOW

WORK CULTURE OF THE SECTOR

- COMPUTER, IT, AUTOMOBILE, BIOTECHNOLOGY, Etc – GOOD & SOPHISTICATED
- E&TC, INSTRUMENTATION, FOOD TECHNOLOGY, Etc - PROGRESSIVE
- CIVIL, ELECTRICAL, MECHANICAL, TEXTILE, Etc - TRADITIONAL

How To Select A Branch?

HIGHER EDUCATION / SUPER SPECIALISATION OPPORTUNITIES IN INDIA OR ABROAD

- CIVIL, MECHANICAL, COMPUTER, IT, E&TC, CHEMICAL Etc – GOOD
- ELECTRICAL, BIOTECH Etc. - MEDIUM
- TEXTILE Etc. – POOR

UPDATION REQUIREMENT OF THE FIELD

- COMPUTER, IT, ELECTRONICS, E&TC, INSTRUMENTATION, BIOTECH, Etc.- HIGH
- MECHANICAL, PRODUCTION, ELECTRICAL, AUTOMOBILE, CHEMICAL, CIVIL, METALLURGY, Etc – MODERATE

How To Select A Branch?

GENERAL STABILITY PERCEPTION

- CHEMICAL, MECHANICAL, PRODUCTION, CIVIL, TEXTILE, Etc. - HIGH
- COMPUTER, IT, E&TC, PETROLEUM, AUTOMOBILE – MODERATE

IMMEDIATE INTERNATIONAL JOB OPPORTUNITIES

- PETROLEUM OR PETROCHEMICAL, CHEMICAL, CIVIL, ELECTRONICS, MINING, FOOD TECHNOLOGY, Etc.-HIGH
- COMPUTER, IT, INSTRUMENTATION, TEXTILE, Etc. - MODERATE
- MECHANICAL, PRODUCTION, AUTOMOBILE, Etc - LOW

How To Select A Branch?

CAREER SWITCH OVER POSSIBILITIES PROJECTION SITE BASED WORK

- FROM SERVICE SECTOR TO MANUFACTURING- ELECTRONICS
- FROM MANUFACTURING TO SERVICE SECTOR - MECHANICAL

YOUR PAST EXPOSURE TO THE BRANCH AS ELECTIVE OR TECHNICAL SUBJECT AT HSC LEVEL

- SUBJECT TAKEN BY YOU AT HSC – COMP / IT/ ELECTRONICS/ ELECTRICAL ETC.

INDIAN ECONOMY-SECTORAL GROWTH % FOR PAST 3 YEARS.

- 20-21,21-22,22-23,23-24 ESTIMATE FOR NEXT 6-8 YEARS.

Skill Set Required

No matter the industry, a diverse range of skills is necessary to excel as an engineer.

Here are examples of some of the most common skills employers look for :

- Problem Solving
- Computer Science
- Attention To Detail
- Pressure Management
- Team Work
- Creativity
- Communication
- Management
- Presentation Skills
- Leadership
- Research Skills
- Quality Assurance
- Design Abilities
- Software Skills
- Project Management
- Supplies Management
- Data Management
- Accounting Skills
- Systems Management

Different Entrance Exams For Engineering

- JEE Mains Paper 1 for B. Tech (3 Hours 300 Marks)
- JEE Mains Paper 2 for B. Arch and B. Plan (3 Hours 400 Marks)
If Students clears JEE Mains then only He / She is eligible for JEE Advanced.
- JEE Advanced for IITs
- BITSAT (3 Hours 390 Marks) – Entrance exam for BITS
- MHT-CET (3 Hours 200 Marks) – For engineering colleges in Maharashtra
- WBJEE – Entrance exam for Jadavpur University
- MET – Entrance exam for Manipal Institute of Technology
- VITEEE - Entrance exam for Vellore Institute of Technology
- COMEDK UGET – Entrance exam for private colleges in Karnataka



JEE (Main)
Joint Entrance Examination



MHT-CET
Maharashtra Common Entrance Test



**JEE
ADVANCED**

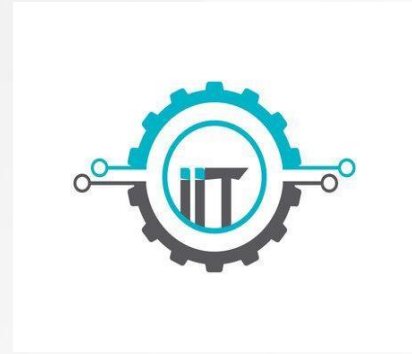
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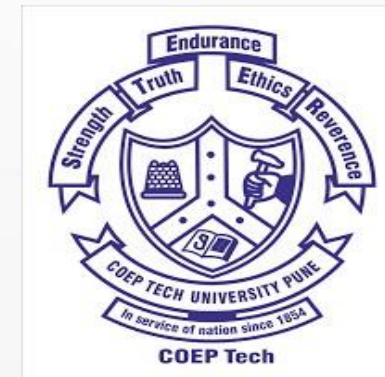
Top Colleges

Top Government Colleges:

- IIT's (23 IIT's)
- NIT's (31 NIT's)
- IIIT's
- GFTI's
- CFTI's
- BITS (Pilani, Hyderabad, Goa)
- College of Engineering (COEP), Pune
- Veermata Jijabai Technological Institute(VJTI), Mumbai
- Institute of Chemical Tech (ICT), Mumbai



- Sardar Patel College Of Engineering, Mumbai
- Walchand College Of Engineering, Sangli
- Government College Of Engineering, Amravati
- Government College Of Engineering, (Aurangabad, Jalgaon, Karad etc.)
- Shri Guru Gobind Singhji Institute Of Engineering & Technology, Nanded



Top Colleges

Other Top Colleges/ Universities:

- **PICT, Pune**
- **BRACT's VIT, Pune**
- **PCCOE, Pune**
- **Bhartiya Vidya Bhavan's SPIT, Mumbai**
- **D J Sanghvi College Of Engineering, Mumbai**
- **MIT World Peace University, Pune**
- **Symbiosis Institute Of Technology (SIT), Pune**
- **K J Somaiya, Mumbai**
- **Shri Ramdevbaba College Of Engineering & Management, Nagpur**
- **VIT (Vellore, Chennai, Amravati(AP), Bhopal)**
- **Manipal Institute Of Technology, Manipal**
- **SRM Institute of Science and Technology, Chennai**

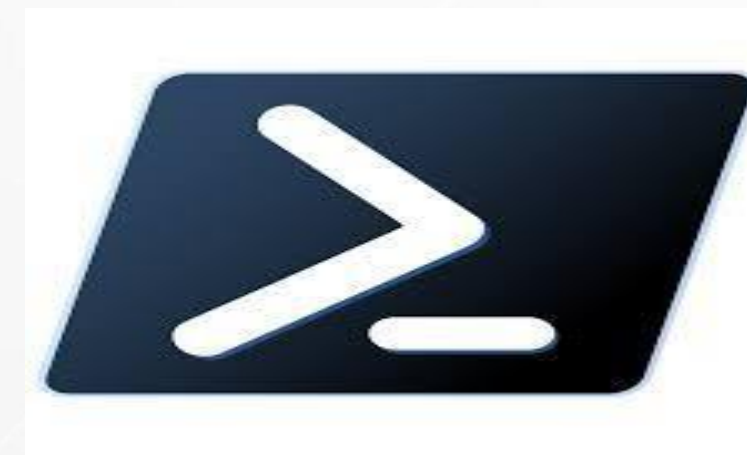
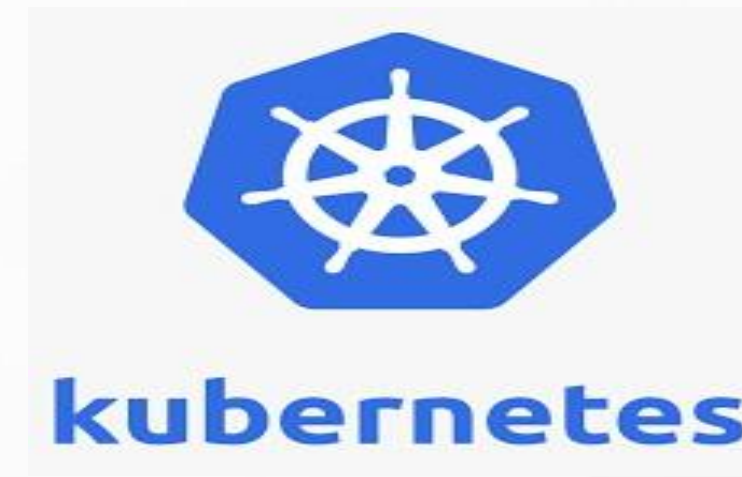
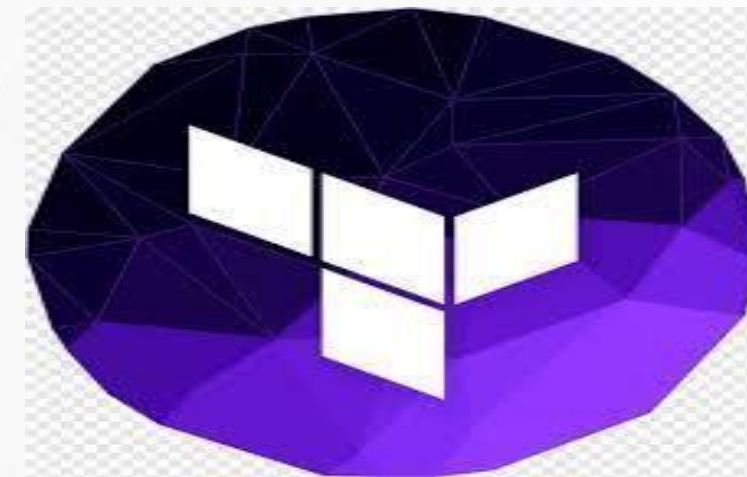


Job Opportunities After Engineering

- **Marine engineer**
- **Industrial engineer**
- **Mechanical engineer**
- **Computer engineer**
- **Chemical engineer**
- **Biomedical engineer**
- **Petroleum engineer**
- **Civil engineer**
- **Environmental engineer**
- **Electrical engineer**
- **Nuclear engineer**
- **Aeronautical engineer**
- **Materials engineer**
- **Software engineer**
- **Entrepreneurship**
- **Web Development**
- **Teaching, Academia and Lecturing**
- **Technical Sales**
- **M. Tech, Ph. D, MBA, MS**
- **Civil Services**
- **Join the Armed Force**
- **Join The NGO**
- **Oil & Gas Sector**
- **Bio Technology Sector**
- **Pharma Sector**

Essential Technologies To Learn In Any Branch Of Engineering

- **AI/ ML**
- **Multicloud**
- **Cybersecurity**
- **Python**
- **Kubernetes**
- **Java**
- **Linux**
- **Docker**
- **PowerShell**
- **Terraform**



Top Recruiters



Our Recruiters





Engineering Admission 2025 Paid Group!

- Fees: ₹2500
- Gpay on 9922695424
- Admission Alerts, Registration dates, documents required, Counselling rounds information and much more.



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Contact:

9922695424

8208030557

ENGINEERING ADMISSION GUIDANCE DETAILS



8K FOR BOTH SEPARATELY

For CET (MHT-CET 90 percentile plus scorer)

For Jossa JEE process (JEE with 98.5 and onwards)

AS BOTH THE PROCESSES ARE SEPARATE



GPay / PhonePe +91 992 269 5424

Percentile criteria constrain due to minimal available time during whole process

Note ...All later communication will be through whatsapp

Our Team Members

Reena Bhutada
Career Counsellor
Pune (9922695424)

Darshanaa T Lathi
Career Counsellor
Pune (7775831822)



CONTACT US

Scan To Join



 +91 820 803 0557

 +91 992 269 5424



THANK YOU



<https://AbhinavCareerScope.com>



abhinavcareerscope@gmail.com