

## KENDRIYA VIDYALAYA : CAREER GUIDELINE

### ENGINEERING

As there is a huge increase in the number of engineering colleges, both private and government, so the students must have a clear knowledge of the best engineering colleges and the admission procedure, that would help them in moving in the right direction.

The IITs continue to rule in the field of engineering, thereby providing the country with top class technology professionals. The seven IITs have the best standards in India, for technical education. IIT admission to undergraduate courses is based on the Joint Entrance Examination (JEE) results.

Apart from the IITs, there are other important engineering colleges as well. Birla Institute of Technology and Sciences (BITS), Pilani, is one of the best private engineering colleges. One of the oldest universities imparting knowledge in different disciplines of engineering is the Banaras Hindu University.

One of the most popular streams of study in India is Engineering. Most of the students dream of taking it up as a subject. India has some of the best private and government engineering colleges and universities which impart courses both at under-graduate and post-graduate levels. Besides the metropolitan cities, the engineering institutes are also situated in other cities like Roorkee, Vellore, Guwahati, Kanpur, Allahabad and Kharagpur to name a few.

Majority of the engineering colleges follow a selection procedure. Different colleges conduct different entrance examinations like GATE, JMET etc. Students have the opportunity to select from a good range of engineering disciplines, be it Civil, Mechanical, Computer, Electronics, Electrical, Biochemical or Chemical.

#### Top Ten Engineering Colleges in India

Rank	Name of The College	Address	Phone No	College Website
1	Indian Institute of Technology(IIT)	Hauz Khas, Delhi	011-26591770/ 26591791	<a href="http://iitd.ac.in">http://iitd.ac.in</a>
2	Indian Institute of Technology(IIT)	Nankari, Kanpur	0512-2597578/ 2597678/2597385	<a href="http://iitk.ac.in">http://iitk.ac.in</a>
3	Indian Institute of Technology(IIT)	Kharagpur	03222-255303/ 913222282232	<a href="http://iitkqp.ac.in">http://iitkqp.ac.in</a>
4	Indian Institute of Technology(IIT)	44/A, G S TRoad, Guindy, Chennai	044- 22578131/914422578030	<a href="http://iitm.ac.in">http://iitm.ac.in</a>
5	Indian Institute of Technology	Roorkee	01332-285714/ 285270/285209	<a href="http://iitr.ac.in">http://iitr.ac.in</a>
6	Birla Institute of Technology and Sciences (BITS, Pilani)	Vidya Vihar	0159-6242013/6242211	<a href="http://bits-pilani.ac.in">http://bits-pilani.ac.in</a>
7	Institute of Technology, Banaras Hindu University (IT, BHU)	Varanasi	0542-6702024	<a href="http://itbhu.ac.in">http://itbhu.ac.in</a>
8	Vellore Institute of Technology (VIT)	Katpadi, Vellore	0416-2243100/ 2243091	<a href="http://vit.ac.in">http://vit.ac.in</a>
9	Delhi Technological University	Bawana Road, Daulatpur, Delhi- 110042,	011-27871018/ 27871042	<a href="http://dce.ac.in">http://dce.ac.in</a>
10	Indian Institute of Technology(IIT)	Amingaon, North Guwahati	0361-2582006/2583000	<a href="http://iitg.ernet.in">http://iitg.ernet.in</a>

## List of Top Engineering Colleges in India

Engineering college	University	Location	Rank 2013
<b>Indian Institute of Technology, Delhi</b>	Indian Institute of Technology Delhi	New Delhi	1
<b>Indian Institute of Technology, Kharagpur</b>	Indian Institute of Technology Kharagpur	Kharagpur	2
<b>Indian Institute of Technology, Bombay</b>	Indian Institute of Technology Bombay	Mumbai	3
<b>Indian Institute of Technology, Kanpur</b>	Indian Institute of Technology Kanpur	Kanpur	4
<b>Indian Institute of Technology, Madras</b>	Indian Institute of Technology Madras	Chennai	5
<b>Indian Institute of Technology (BHU), Varanasi</b>	Indian Institute of Technology (BHU) Varanasi	Varanasi	6
<b>Birla Institute of Technology and Science, Pilani</b>	Birla Institute of Technology and Science, Pilani	Pilani,Goa,Hyderabad	7
<b>Delhi Technological University</b>	Delhi Technological University	New Delhi	9
<b>Indian Institute of Technology, Guwahati</b>	Indian Institute of Technology Guwahati	Guwahati	9
<b>Mody Institute of Technology and Science</b>	Mody Institute of Technology & Science	Lakshmangarh	10
<b>National Institute of Technology, Tiruchirappalli</b>	National Institute of Technology, Tiruchirappalli	Tiruchirappalli	10
<b>Indian School of Mines</b>	Indian School of Mines	Dhanbad	11
<b>College of Engineering, Guindy</b>	Anna University	Chennai	12
<b>Visvesvaraya National Institute of Technology</b>	Visvesvaraya National Institute of Technology	Nagpur	12
<b>Birla Institute of Technology, Mesra</b>	Birla Institute of Technology Mesra	Ranchi	13
<b>National Institute of Technology Karnataka</b>	National Institute of Technology Karnataka	Surathkal	13
<b>International Institute of Information Technology, Hyderabad</b>	International Institute of Information Technology Hyderabad	Hyderabad	14
<b>Veermata Jijabai Technological Institute</b>	University of Mumbai	Mumbai	15
<b>National Institute of Technology, Warangal</b>	National Institute of Technology, Warangal	Warangal	16
<b>Netaji Subhas Institute of Technology</b>	University of Delhi	New Delhi	17
<b>Indian Institute of Information Technology, Allahabad</b>	Indian Institute of Information Technology Allahabad	Allahabad	18

<b>P.S.G. College of Technology</b>	Anna University	Coimbatore	18
<b>National Institute of Technology, Rourkela</b>	National Institute of Technology, Rourkela	Rourkela	19
<b>Indian Institute of Technology, Bhubaneswar</b>	Indian Institute of Technology Bhubaneswar	Bhubaneswar	21
<b>PEC University of Technology</b>	PEC University of Technology	Chandigarh	21
<b>College of Engineering, Pune</b>	Pune University	Pune	22
<b>National Institute of Technology, Hamirpur</b>	National Institute of Technology, Hamirpur	Hamirpur	23
<b>Harcourt Butler Technological Institute</b>	Uttar Pradesh Technical University	Kanpur	24
<b>Manipal Institute of Technology</b>	Manipal University	Manipal	24
<b>Shri Mata Vaishno Devi University</b>	Shri Mata Vaishno Devi University	Jammu & Kashmir	25
<b>Thadomal Shahani Engineering College</b>	University of Mumbai	Mumbai	25
<b>Motilal Nehru National Institute of Technology, Allahabad</b>	Motilal Nehru National Institute of Technology, Allahabad	Allahabad	27
<b>Birsa Institute of Technology Sindri</b>	Vinoba Bhave University	Dhanbad	28
<b>Thapar University</b>	Thapar University	Patiala	28
<b>University Institute of Engineering and Technology, Panjab University</b>	Panjab University, Chandigarh	Chandigarh	29
<b>Jamia Millia University, New Delhi</b>	Jamia Millia Islamia	Delhi	30
<b>National Institute of Technology, Silchar</b>	National Institute of Technology, Silchar	Silchar	31
<b>R.V. College of Engineering</b>	Visvesvaraya Technological University	Bangalore	33
<b>Institute of Technology,irma University</b>	Nirma University of Science and Technology	Ahmedabad	34
<b>P.E.S. Institute of Technology</b>	Visvesvaraya Technological University	Bangalore	35
<b>National Institute of Engineering</b>	Visvesvaraya Technological University	Mysore	36
<b>University College of Engineering, Osmania University</b>	Osmania University	Hyderabad	37
<b>SSN College of Engineering</b>	Anna University of Technology, Chennai	Chennai	39
<b>Mepco Schlenk Engineering College</b>	Anna University of Technology Tirunelveli	Sivakasi	40
<b>Chaitanya Bharathi Institute of Technology</b>	Osmania University	Hyderabad	41
<b>Thiagarajar College of Engineering</b>	Anna University of Technology, Chennai	Madurai	42
<b>Indian Institute of Technology,</b>	Indian Institute of Technology, Jodhpur	Jodhpur	44

<b>Jodhpur</b>			
<b>Government College of Engineering, Amravati</b>	Sant Gadge Baba Amravati University	Amravati	45
<b>Government College of Engineering, Amravati</b>	Sant Gadge Baba Amravati University	Amravati	45
<b>Dwarkadas J. Sanghvi College of Engineering</b>	University of Mumbai	Mumbai	46
<b>Model Engineering College</b>	Cochin University of Science and Technology	Kochi	46
<b>P.E.S. College of Engineering</b>	Visvesvaraya Technological University	Mandya	48
<b>Dehradun Institute of Technology</b>	Uttarakhand Technical University	Dehradun	49
<b>Maharashtra Institute of Technology</b>	University of Pune	Pune	50

### **Best 75 Engineering Institutes in India - As per Outlook Ranking**

1. Indian Institute of Technology (IIT), Delhi
2. Indian Institute of Technology (IIT), Kharagpur
3. Indian Institute of Technology (IIT), Kanpur
4. Indian Institute of Technology (IIT), Chennai
5. Indian Institute of Technology (IIT), Mumbai
6. Indian Institute of Technology (IIT), Roorkee
7. Birla Institute of Technology and Sciences (BITS), Pilani
8. Institute of Technology-BHU, Varanasi
9. Indian Institute of Technology (IIT), Guwahati
10. Vellore Institute of Technology (VIT), Vellore
11. National Institute of Technology (IIT), Surathkal
12. College of Engineering, Anna University, Chennai
13. National Institute of Technology (NIT), Warangal
14. PSG College of Technology, Coimbatore
15. Delhi College of Engineering, Delhi
16. International Institute of Information Technology (IIIT), Hyderabad
17. National Institute of Technology (NIT), Tiruchirapalli
18. Netaji Subhash Institute of Technology (NSIT), Delhi
19. Motilal Nehru Institute of Technology (MNIT), Allahabad
20. National Institute of Technology (NIT), Calicut
21. National Institute of Technology (NIT), Rourkela
22. College of Engineering - New, Pune
23. Birla Institute of Technology (BIT), Mesra (Ranchi)
24. R.V. College of Engineering - New, Bangalore
25. Nirma Institute of Technology (NIT) - New, Ahmedabad
26. Harcourt Butler Technological Institute (HBTI), Kanpur
27. Thapar Institute Of Engineering & Technology, Patiala
28. Mumbai University Inst of Chemical Tech, Mumbai
29. Indian Institute of Information Technology (IIIT), Gwalior
30. Nirma Institute of Technology (NIT), Ahmedabad
31. University Inst of Engg and Tech, Chandigarh
32. P.E.S Institute of Technology, Bangalore
33. National Institute of Engineering (NIE), Mysore
34. Veermata Jijabai Technological Institute (VJTI), Mumbai
35. Madras Institute of Technology, Chennai

36. Indian School of Mines, Dhanbad
37. Osmania University College of Engineering, Hyderabad
38. SSN College of Engineering, Chennai
39. S.G.S. Institute of Technology & Science, Indore
40. Mepco Schlek Engineering College, Sivakasi
41. Guru Nanak Dev Engineering College (GNDEC), Ludhiana
42. P.E.S College of Engineering, Mandya
43. Chaitanya Bharathi Inst. of Technology, Hyderabad
44. Thiagarajar College of Engineering, Madurai
45. D.J. Sanghvi, Mumbai
46. Amrita Institute of Technology & Science (AITS), Coimbatore
47. Govt. Model Engineering College, Kochi
48. Govt. College of Engineering, Amravati
49. Maharashtra Institute of Technology (MIT), Pune
50. B.M.S. College of Engineering, Bangalore
51. K.L. University, Guntur
52. Shri Ramdeo Baba K.N. Engineering College, Nagpur
53. Bangalore Institute of Technology (BIT), Bangalore
54. Kongu Engineering College, Erode
55. Sona College of Technology, Salem
56. Jamia Millia Islamia, New Delhi
57. Muffakham Jah Engineering College, Hyderabad
58. Rungta College of Engg & Tech, Bilai
59. SCMS School of Engg & Tech, Ernakulam
60. Acharya Institute of Technology (AIT), Bangalore
61. K.L.E. Society's College of Engg, Belgaum
62. SDM College of Engineering, Dharward
63. Sir M.Visvesvaraya Institute of Tech, Bangalore
64. Institute of Technology and Management University (ITMU), Gurgaon
65. Jawaharlal Nehru Nat Coll of Engg., Shimoga
66. Sri Sai Ram Engineering College, Chennai
67. M.V.J. College of Engineering, Bangalore
68. Galgotias College of Engg. & Tech., Noida
69. Karunya Institute of Technology (KIT), Coimbatore
70. Sreenidhi Inst. of Science & Tech., Hyderabad
71. GMR Institute of Technology, Srikakulam
72. Amity School of Engineering, Noida
73. J.S.S Academy of Technical Education, Bangalore
74. Bannari Amman Institute of Tech., Erode
75. Hindustan Inst. Of Engineering Technology, Chennai

## Career in Engineering

The B.Tech or Bachelor of Technology, typically abridged as B.Tech.(Hons), is a graduation course in the field of technology. The duration of B.Tech is normally three to four years. Only a recognized university-level educational institute or recognized university can offer this degree to the students.

Other than India, the B.Tech degree is awarded in the Republic of Ireland, the Commonwealth of Nations, Canada, the United States, Nigeria, South Africa, and many other countries in the world.

## Current Scenario of B.Tech in India

The B.Tech or Bachelor of Technology degree in India is conferred following the successful completion of its duration which is typically four years. The course normally consists of eight semesters which incorporate practical training, workshops, and projects. Technology or engineering education in India is regarded as one of the most attractive career choices in the country. Throughout an extensive period of time, engineering has been the favorite choice of career among the young generation of the country.

**Privately run and public colleges and institutes in India offer the B.Tech degree in the following subject areas:**

- Computer Science and Engineering
- Applied Electronics and Instrumentation
- Electronics (Communication & Instrumentation) Engineering
- Information Technology
- Nanotechnology
- Mechanical Engineering
- Automobile Engineering
- Electrical Engineering
- Agricultural Engineering (Food Technology Engineering)
- Chemical Engineering
- Mechatronical Engineering

B.Tech qualified students can either go for higher education or look for employment opportunities. If they decide to go for higher education, they can select post graduate study programs like MBA (Master of Business Administration) or even M.Tech/MS in India and other countries. If they think they will look for jobs then they can apply for technical and non technical positions.

## Eligibility Criteria for B. Tech

**Students who are interested to study B .Tech have to fulfill the criteria given below:**

- The aspirants should pass their 10+2 or any other equivalent 12th standard examination from a recognized board
- The minimum age of the students should be 18 years and maximum age 23 years
- They should study Chemistry, Physics, and Mathematics as compulsory subjects at their higher secondary or 10+2 level
- Most of the colleges and institutes ask for a minimum of 50% marks in their 10+2 examination
- They should study English as a compulsory subject in their 10+2 level

A number of institutes and colleges also necessitate 60% marks in each of these subjects i.e. Physics, Chemistry and Mathematics.

## Engineering Entrance Exams in India

**Given below is a list of the B. Tech Entrance Exams in India:**

- Indian Institute of Information Technology (IIIT) Allahabad B.Tech Entrance Exam
- All India Engineering Entrance Examination (AIEEE)

- Aligarh Muslim University (AMU) Engineering Entrance Exam
- Anna University Engineering Entrance Exam
- Uttar Pradesh State Entrance Examination
- Vellore Institute of Technology B.Tech Entrance Exam
- Graduate Aptitude Test in Engineering
- Indian Institute of Space Science and Technology IIST B.Tech Entrance Exam
- IIT Joint Entrance Examination
- The NERIST Entrance Examination Arunachal Pradesh
- Arunachal Pradesh Engineering Entrance Exams
- Bihar Combined Entrance Competitive Examination (BCECE), Bihar
- Pune University B.Tech Entrance Exam
- Engineering Agricultural and Medical Common Entrance Test (EAMCET), Andhra Pradesh
- Common Entrance Examination (CEE), Delhi
- Common Entrance Examination (CEE), Kerala
- B.S. Abdur Rahman University Engineering Entrance Examination
- Gujarat Engineering Entrance Exam (GUJCET)
- Guru Govind Singh Indraprastha University (GGSIPU) Common Entrance Test
- Punjab Technical University (PTU), Jalandhar Common Entrance Test (CET)
- Chaudhary Charan Singh University B.Tech Entrance Test
- LNM Institute of Information Technology B.Tech Entrance Exam
- Sikkim Manipal Institute of Technology B.Tech Entrance Exam
- Karnataka Common Entrance Test
- Amrita Schools of Engineering B.Tech Entrance Exam
- Karunya University B.Tech Entrance Exam
- KIITEE - Kalinga Institute of Industrial Technology Entrance Exam
- SRM EEE - SRM Engineering Entrance Exam
- Jamia Milia Islamia (JMI) Engineering Entrance Examination
- Common Entrance Examination (CEE), Assam
- Combined Entrance Examination (CEE), Tamil Nadu

Majority of well-known universities and colleges of the country offer admission to the students in the B. Tech program based on how much they have scored in the AIEEE, All India Common Entrance Test (CET), Combined Entrance Examination (CEE) held by the different boards, and Graduate Aptitude Test in Engineering (GATE). In India, colleges, universities, and other institutes offer B. Tech degrees in fields like Information Technology, Chemical Engineering, Electrical and Computer Engineering, Computer Science and Engineering, Automation Engineering, Mechanical Engineering, Civil Engineering, Electrical and Electronic Engineering, and Instrumentation and Control Engineering.

Students who have passed with a diploma in technology with 60% in aggregate are eligible for admission directly to the second year of B. Tech provided they clear the Common Entrance

Test. The test will include questions on Chemistry, Physics, Mathematics, Applied Mathematics, Applied Mechanics, Fundamentals of Mechanical Engineering, Fundamentals of Electrical Engineering and Electronics, Computer Awareness, Logical and Analytical Reasoning, English, and Scientific Aptitude.

### **Career in BE**

The BE or Bachelor of Engineering (BE) degree is offered in India by a large number of government and private colleges and universities. The degree is conferred to the students after they successfully finish the duration of four years associated with a particular domain of engineering. Usually, a Bachelor of Engineering (BE) degree normally consists of eight semesters with each semester spanning a period of six months.

For studying the Bachelor of Engineering degree, the students have to pass their 10+2 examination or Higher Secondary Examination from a recognized board in India or Diploma from a recognized polytechnic which is also known as 10+3.

In addition, it is also a general prerequisite for the students to pass an entrance exam which is conducted by the college or university where they are looking for enrolment. This common entrance test is specifically conducted by the more well-known institutes. The number of seats is limited and students qualify for these seats on the basis of their scores in these entrance tests like IIT-JEE.

Engineering diploma holders can qualify for the Bachelor of Engineering courses by means of a lateral entry. This helps them get exemption in terms of a number of subject areas. Usually, a diploma holder in engineering can get admission in the Bachelor of Engineering course (four years) in the 2nd year. As a result of this, the number of years of study ( $10+3+3=16$ ) for a diploma holder is equal to that of the non-diploma holders ( $10+2+4=16$ ).

### **Current Scenario of BE in India**

Self-governing universities and colleges in the country confer the B.Tech or Bachelor of Technology degree in place of the Bachelor of Engineering. A number of educational institutes might also confer a "B.Tech with minor" or "B.Tech with Honors". However, this is dependent on further course assignment.

One of the famous universities that impart engineering education with BE-Sandwich courses is Pune University. A number of engineering colleges and institutes that are affiliated with Pune University and offer BE-Sandwich courses are as follows:

- Vishwakarma Institute of Technology
- Maharashtra Institute of Technology
- College of Engineering, Pune
- AISSMS College of Engineering

### **Entrance Exams for BE**

The BE or engineering entrance exams are regarded as major entrance exams in India since majority of the students of the nation target for engineering courses, instantly after passing their 10+2 examinations.



India is famous for its Indian Institute of Technologies and its state-of-the-art engineering education infrastructure and research opportunities. All the Indian Institute of Technologies are home to their separate research hub, assisting in the majority of engineering advancements and infrastructure in the nation. In addition, to simplify the process of enrolment to engineering courses in India, the Union Government has specified three entrance exam systems, namely JEE, AIEEE, and SLEEE.

**Given below is a list of the BE Entrance Exams in India:**

- Bihar Combined Entrance Competitive Examination (BCECE)
- Andhra Pradesh Engineering, Agricultural and Medical Common Entrance Test (EAMCET)
- Delhi University Combined Entrance Examination (DUCEE)
- Chandigarh Common Entrance Test (CET)
- Gujarat Common Entrance Test (GUJCET)
- Goa Common Entrance Test (GCET)
- Himachal Pradesh Combined Pre-Entrance Test (CPET)
- Haryana Common Engineering Entrance Test (CEET)
- Jharkhand Combined Entrance Competitive Examination (JCECE)
- Jammu and Kashmir Common Entrance Test
- Kerala Engineering Architecture Medical (KEAM) Entrance Examination
- Karnataka Common Entrance Test (CET)
- Maharashtra Common Entrance Test (MHT CET)
- Madhya Pradesh Pre Engineering Test (PET)
- Orissa Joint Entrance Examination (JEE)
- North East State Engineering Entrance (NERIST)
- Punjab Technical University Combined Entrance Test (PTU CET)
- Puducherry Joint Entrance Test (PJET)
- Sikkim Engineering Entrance Examination
- Rajasthan Pre Entrance Test (RPET)
- Tripura Joint Entrance Examination
- Tamil Nadu Engineering Admissions (TNEA)
- West Bengal Joint Entrance Examination (JEM)
- Uttar Pradesh State Entrance Examination (UPSEE)
- Joint Entrance Examination (JEE)
- All India Engineering/Pharmacy/Architecture (AIEEE)
- Engineering Entrance Test of Different States
- Graduate Aptitude Test in Engineering (GATE)
- Indian Institute of Technology Joint Entrance Examination

## Top B.E. Colleges in India

- Amity School of Engineering & Technology - Guru Gobind Singh Indraprastha University New Delhi
- Army Institute of Technology, Pune under University of Pune
- Amrita School of Engineering Amrita Vishwa Vidyapeetham Coimbatore
- B. S. Abdur Rahman University Chennai
- B.M.S. Institute of Technology Visvesvaraya Technological University Bangalore
- Bharati Vidyapeeth Deemed University College of Engineering, Pune
- Bannari Amman Institute of Technology Anna University of Technology, Coimbatore Sathyamangalam
- Birla Institute of Technology, Mesra
- B.N.M. Institute of Technology Visvesvaraya Technological University, Bangalore
- Birla Institute of Technology and Science, Pilani
- Chaitanya Bharathi Institute of Technology Osmania University Hyderabad
- Birsa Institute of Technology, Sindri, Vinoba Bhave University, Dhanbad
- College of Engineering, Guindy Anna University Chennai
- Dwarkadas J. Sanghvi College of Engineering Mumbai under University of Mumbai
- College of Engineering, Trivandrum University of Kerala Trivandrum
- Dehradun Institute of Technology Uttarakhand Technical University Dehradun
- Dhirubhai Ambani Institute of Information and Communication Technology Gandhinagar
- Delhi Technological University New Delhi
- Galgotias College of Engineering & Technology Gautam Buddha Technical University, Greater Noida
- GMR Institute of Technology under Jawaharlal Nehru Technological University, Kakinada
- Ganeshi Lal Bajaj Institute of Technology and Management Mahamaya Technical University Gr Noida
- Guru Nanak Dev Engineering College, Ludhiana Punjab Technical University Ludhiana
- Government College of Engineering, Amravati Sant Gadge Baba Amravati University
- Indian Institute of Information Technology, Allahabad
- Harcourt Butler Technological Institute, Uttar Pradesh Technical University Kanpur
- Indian Institute of Technology, Bombay (Mumbai)
- Indian Institute of Information Technology and Management, Gwalior
- Indian Institute of Technology, Guwahati

- Indian Institute of Technology, Delhi
- Indian Institute of Technology, Kanpur
- Indian Institute of Technology, Guwahati
- Indian Institute of Technology, Madras
- Indian Institute of Technology, Kharagpur
- Indian School of Mines, Dhanbad
- Indian Institute of Technology, Roorkee
- Institute of Technology, Banaras Hindu University Varanasi
- Institute of Chemical Technology, Mumbai
- International Institute of Information Technology, Hyderabad
- Institute of Technology, Nirma University Ahmedabad
- Madras Institute of Technology Anna University Chennai
- Jawaharlal Nehru Technological University, Hyderabad
- Maharaja Surajmal Institute of Technology New Delhi
- Maharaja Agrasen Institute of Technology Guru Gobind Singh Indraprastha University New Delhi
- Manipal Institute of Technology Manipal University Manipal
- Maharashtra Institute of Technology University of Pune Pune
- Model Engineering College Cochin University of Science and Technology Kochi
- Mepco Schlenk Engineering College Anna University of Technology Tirunelveli Sivakasi
- National Institute of Engineering Visvesvaraya Technological University Mysore
- Motilal Nehru National Institute of Technology, Allahabad
- National Institute of Technology, Hamirpur
- National Institute of Technology, Calicut Kozhikode
- National Institute of Technology Karnataka Surathkal
- National Institute of Technology, Jamshedpur
- National Institute of Technology, Silchar
- National Institute of Technology, Rourkela
- National Institute of Technology, Warangal
- National Institute of Technology, Tiruchirappalli
- New Horizon College of Engineering Visvesvaraya Technological University Bangalore

- Netaji Subhas Institute of Technology University of Delhi New Delhi
- Orissa Engineering College Biju Patnaik University of Technology Bhubaneswar
- Oriental Institute of Science and Technology Rajiv Gandhi Proudhyogiki Vishwavidyalaya Bhopal
- P.E.S. College of Engineering Visvesvaraya Technological University Mandya
- P.S.G. College of Technology Anna University Coimbatore
- PEC University of Technology Chandigarh
- P.E.S. Institute of Technology Visvesvaraya Technological University Bangalore
- Rajagiri School of Engineering and Technology Mahatma Gandhi
- R.V. College of Engineering Visvesvaraya Technological University Bangalore
- Swami Vivekanand Technical University Bhilai
- University Kochi Rungta College of Engineering and Technology Chhattisgarh
- Shri Govindram Seksaria Institute of Technology and Science Rajiv Gandhi Proudhyogiki Vishwavidyalaya Indore

- Sardar Vallabhbhai National Institute of Technology Surat
- Sri Sivasubramaniya Nadar College of Engineering Anna University Chennai
- Sir M. Visvesvaraya Institute of Technology Visvesvaraya Technological University Bangalore
- Thiagarajar College of Engineering Anna University of Technology, Chennai Madurai
- Thapar University Patiala
- University Institute of Engineering and Technology, Panjab University, Chandigarh
- University Visvesvaraya College of Engineering Bangalore University Bangalore
- University College of Engineering, Osmania University Hyderabad
- Vellore Institute of Technology Vellore
- Veermata Jijabai Technological Institute University of Mumbai Mumbai
- West Bengal University of Technology (WBUT) Kolkata

## Engineering Colleges in India Top 100 Engineering Colleges in India - Engg. College Ranking (2012)

Engineering college	University	Location	Outlook 2013	India Today 13	Dataquest 12	Week 13	Mint (PVT)	Mint (Govt)
IET BHADDAL Group of Institutions	Punjab Technical University, Punjab	Ropar	Punjab	Unranked	29	DNP	DNP	DNP
Bangalore Institute of Technology	Visvesvaraya Technological University	Bangalore	56	52	46	49	34	NA
National Institute of Technology, Kurukshetra	National Institute of Technology, Kurukshetra	Kurukshetra	DNP	DNP	DNP	28	DNP	24
Birla Institute of Technology	Birla Institute of Technology ,Mesra	Ranchi	13	24	13	14	03	NA
Birla Institute of Technology and Science, Pilani	Birla Institute of Technology and Science, Pilani	Pilani	06	06	11	07	01	NA
Birsa Institute of Technology Sindri	Vinoba Bhawe University	Dhanbad	28	Unranked	81	34	DNP	DNP
Chaitanya Bharathi Institute of Technology	Osmania University	Hyderabad	41	Unranked	Unranked	DNP	16	NA
College of Engineering Pune	College of Engineering Pune	Pune	20	15	14	16	NA	NA
Indian Institute of Engineering Science and Tech,	IEST, Shibpur	Kolkata	12	Unranked	Unranked	11	NA	09
Indian Institute of Technology, Jodhpur	Indian Institute of Technology, Jodhpur	Jodhpur	44	Unranked	Unranked	DNP	DNP	DNP
Dwarkadas J. Sanghvi College of Engineering	University of Mumbai	Mumbai	46	Unranked	Unranked	DNP	DNP	DNP
Jamia Millia Islamia	Jamia Millia Islamia	Delhi	35	50	Unranked	DNP	DNP	DNP
DIT University	DIT University	Dehradun	44	unranked	41	48	53	DNP
Delhi Technological University	Delhi Technological University	New Delhi	09	11	16	10	NA	14
Dhirubhai Ambani Institute of Information and Communication Technology	Dhirubhai Ambani Institute of Information and Communication Technology	Gandhinagar	Unranked	Unranked	10	DNP	08	NA
Malaviya National Institute of Technology, Jaipur	Malaviya National Institute of Technology, Jaipur	Jaipur	Unranked	30	Unranked	DNP	DNP	DNP
Government College of Engineering, Amravati	Sant Gadge Baba Amravati University	Amravati	45	Unranked	35	DNP	DNP	DNP
Harcourt Butler Technological Institute	Uttar Pradesh Technical University	Kanpur	24	Unranked	48	DNP	NA	31
Walchand Institute of Technology	Solapur University	Solapur	41	42	40	DNP	DNP	DNP
Maharaja Agrasen Institute of Technology	Guru Gobind Singh Indraprastha University	New Delhi	Unranked	Unranked	21	DNP	DNP	DNP
Indian Institute of Information Technology,	Indian Institute of Information Technology Allahabad	Allahabad	18	21	Unranked	DNP	NA	21
Indian Institute of Technology, Patna	Indian Institute of Technology Patna	Patna	DNP	DNP	DNP	DNP	DNP	DNP
Indian Institute of Technology, Bhubaneswar	Indian Institute of Technology Bhubaneswar	Bhubaneswar	21	unranked	24	DNP	DNP	DNP
Indian Institute of Technology, Bombay	Indian Institute of Technology Bombay	Mumbai	04	Unranked	03	01	NA	01
Indian Institute of Technology, Delhi	Indian Institute of Technology Delhi	New Delhi	01	01	01	01	NA	03
Indian Institute of Technology, Guwahati	Indian Institute of Technology Guwahati	Guwahati	15	10	08	09	NA	08
Indian Institute of Technology, Kanpur	Indian Institute of Technology Kanpur	Kanpur	04	01	02	05	DNP	DNP
Indian Institute of Technology, Kharagpur	Indian Institute of Technology Kharagpur	Kharagpur	05	04	07	03	NA	04
Indian Institute of Technology, Madras	Indian Institute of Technology Madras	Chennai	06	06	05	06	NA	06
Indian Institute of Technology, Roorkee	Indian Institute of Technology Roorkee	Roorkee	DNP	07	Unranked	08	NA	07
Indian Institute of Technology (BHU), Varanasi	Indian Institute of Technology (BHU) Varanasi	Varanasi	08	07	05	09	NA	05
Indian School of Mines, Dhanbad	Indian School of Mines, Dhanbad	Dhanbad	11	Unranked	Unranked	13	NA	13
Institute of Technology, Nirma University	Nirma University of Science and Technology	Ahmedabad	34	Unranked	17	DNP	27	NA
International Institute of Information Technology,	International Institute of Information Technology	Hyderabad	14	20	05	18	Unranked	NA
Maharashtra Institute of Technology	University of Pune	Pune	50	Unranked	72	DNP	23	NA
SIDDHANT College of Engineering, Pune	Pune University	Pune	DNP	DNP	DNP	DNP	DNP	DNP
Manipal Institute of Technology	Manipal University	Manipal	24	Unranked	Unranked	DNP	12	NA
M.S.Ramaiah Institute of Technology	M. S. Ramaiah Institute of Technology	Bangalore	65	16	31	DNP	20	NA
Mepeco Schlenk Engineering College	Anna University of Technology Tirunelveli	Sivakasi	40	Unranked	54	DNP	22	NA
Model Engineering College	Cochin University of Science and Technology	Kochi	46	Unranked	Unranked	DNP	NA	28
Motilal Nehru National Institute of Technology,	Motilal Nehru National Institute of Technology,	Allahabad	27	Unranked	Unranked	DNP	NA	22
Muffakham Jah College of Engineering and Technolog	Muffakham Jah College of Engineering and Technology	Hyderabad	57	Unranked	Unranked	50	Unranked	Unranked
National Institute of Engineering	Visvesvaraya Technological University	Mysore	36	Unranked	Unranked	DNP	33	NA
National Institute of Technology Srinagar	National Institute of Technology Srinagar	Srinagar	84	Unranked	67	DNP	DNP	DNP
National Institute of Technology, Calicut	National Institute of Technology, Calicut	Kozhikode	Unranked	13	15	DNP	NA	18
National Institute of Technology, Durgapur	National Institute of Technology, Durgapur	Durgapur	26	29	25	23	NA	36
National Institute of Technology, Hamirpur	National Institute of Technology, Hamirpur	Hamirpur	23	Unranked	37	DNP	NA	42
National Institute of Technology Karnataka	National Institute of Technology Karnataka	Srathkal	13	08	12	20	DNP	DNP
National Institute of Technology, Rourkela	National Institute of Technology, Rourkela	Rourkela	19	Unranked	15	DNP	NA	26
National Institute of Technology, Silchar	National Institute of Technology, Silchar	Silchar	31	Unranked	Unranked	DNP	DNP	DNP
National Institute of Technology, Tiruchirappalli	National Institute of Technology, Tiruchirappalli	Tiruchirappalli	16	15	Unranked	18	NA	12
National Institute of Technology, Warangal	National Institute of Technology, Warangal	Warangal	9	10	Unranked	11	NA	15
Netaji Subhas Institute of Technology	University of Delhi	New Delhi	17	17	09	15	NA	19
P.S.G. College of Technology	Anna University	Coimbatore	18	14	Unranked	DNP	04	NA
P.E.S. College of Engineering	Visvesvaraya Technological University	Mandya	48	Unranked	Unranked	DNP	DNP	DNP
P.E.S. Institute of Technology	Visvesvaraya Technological University	Bangalore	35	Unranked	Unranked	DNP	13	NA
PEC University of Technology	PEC University of Technology	Chandigarh	21	unranked	38	DNP	DNP	DNP
R.V. College of Engineering	Visvesvaraya Technological University	Bangalore	33	28	27	17	09	NA
Rajagiri School of Engineering & Technology	Mahatma Gandhi University	Kochi	Unranked	Unranked	53	DNP	DNP	DNP
Sardar Vallabhbhai National Institute of Technology,	Sardar Vallabhbhai National Institute of Technology,	Surat	31	18	Unranked	Unranked	NA	33
Shri Mata Vaishno Devi University	Shri Mata Vaishno Devi University	J & Kashmir	25	Unranked	Unranked	DNP	DNP	DNP
Shri Ramdeobaba College of Engineering and Mngr	Rashtrasant Tukadoji Maharaj Nagpur University	Nagpur	52	Unranked	DNP	DNP	30	DNP
Sir M. Visvesvaraya Institute of Technology	Visvesvaraya Technological University	Bangalore	76	73	27	DNP	DNP	DNP
Sagar Insitute Of Science and Technology	Sagar Insitute Of Science and Technology	Bhopal	39	Ranked	Ranked	DNP	45	DNP
SRM University	SRM University	Chennai	DNP	12	Unranked	DNP	19	NA
Shri G Seksaria Institute of Technology and Science	Shri G Seksaria Institute of Technology and Science	indore	39	DNP	DNP	96	DNP	DNP
Thadomal Shahani Engineering College	University of Mumbai	Mumbai	36	39	42	41	28	NA
Thapar University	Thapar University	Patiala	28	18	18	DNP	DNP	DNP
Thiagarajar College of Engineering	Anna University of Technology, Chennai	Madurai	42	Unranked	25	DNP	14	NA
University College of Engineering,	Osmania University	Hyderabad	37	Unranked	Unranked	59	NA	44
Veermata Jijabai Technological Institute	University of Mumbai	Mumbai	15	22	18	DNP	07	NA
Vellore Institute of Technology	Vellore Institute of Technology	Vellore	DNP	08	DNP	19	06	NA
Visvesvaraya National Institute of Technology	Visvesvaraya National Institute of Technology	Nagpur	12	Unranked	Unranked	11	NA	25
West Bengal University of Technology	West Bengal University of Technology	Kolkata	Unranked	Unranked	22	DNP	DNP	DNP
Center for Engineering and Technology	BABASAHEB BHIMRAO AMBEDKAR UNIVERSITY	LUCKNOW	UP	Unranked	DNP	DNP	DNP	DNP

## टेक्सटाइल इंजीनियरिंग में करियर : लाखों का पैकेज



देश की टेक्सटाइल इंडस्ट्री में कई बड़े और क्रांतिकारी बदलाव हुए हैं। नए किस्म के फैब्रिक तैयार किए जा रहे हैं, जिनका इस्तेमाल कपड़ों से लेकर सड़क निर्माण में हो रहा है। साथ ही मशीन या हैंडलूम आधारित हजारों की संख्या में टेक्सटाइल मिल्स खुल गए हैं।

फैशन और गारमेंट इंडस्ट्री भी दिनों दिन विकसित हो रही है। ऐसे में यह फील्ड युवाओं के लिए बेहतर करियर विकल्प है। आइए जानते हैं इस फील्ड के बारे में और कैसे इसमें करियर बनाया जाए इस बारे में कुछ जरूरी बातें-

### जरूरी बेसिक स्किल्स

इस फील्ड में करियर बनाने के लिए साइंस में दिलचस्पी होना जरूरी है। साथ ही नए टेक्सटाइल फाइबर के निर्माण को लेकर एप्टिट्यूड होना चाहिए यानी फैब्रिक में रुचि होना फायदेमंद रहेगा।

इस करियर में बेहतर करने के लिए आपके पास अच्छी कम्युनिकेशन व एनालिटिकल स्किल भी होनी जरूरी है। इसके अलावा, जिनके पास टेक्सटाइल मैनुफैक्चरिंग प्रक्रिया में तकनीकी समस्याओं को सुलझाने की क्षमता, क्रिएटिविटी, मैकेनिकल स्किल्स व लॉजिकल थिंकिंग होगी, उनके लिए आगे बढ़ने की राह अधिक आसान होगी।

### कहांकहां है करियर की संभावनाएं-

टेक्सटाइल इंजीनियरिंग के ग्रेजुएट आरएंडडी, टेक्निकल सेल्स, क्वालिटी कंट्रोल, प्रोसेस इंजीनियरिंग, प्रोडक्शन कंट्रोल या कॉरपोरेट मैनेजमेंट में करियर बना सकते हैं। शिक्षण या शोध कार्य से भी जुड़ सकते हैं।

आज कई बड़ी कंपनियों के अपने आरएंडडी डिवीजन हैं। देश की शीर्ष टेक्सटाइल कंपनियों में भी काम करने के मौके मिल सकते हैं। वहीं, विदेशों में स्पोर्ट्स इंडस्ट्री में टेक्सटाइल इंजीनियर्स की सबसे ज्यादा मांग है।

नॉनवूवन इंडस्ट्री में भी टेक्सटाइल इंजीनियरिंग के ग्रेजुएट्स काम कर सकते हैं। आप एंटरप्रेन्योर के तौर पर भी करियर की - शुरूआत कर सकते हैं। इन सबके अलावा बड़ी संख्या में गवर्नमेंट स्पॉन्सर्ड सिल्क, हैंडलूम, जूट, खादी और क्राफ्ट डेवलपमेंट ऑर्गेनाइजेशन में टेक्सटाइल टेक्नोलॉजी एक्सपर्ट के तौर पर करियर बना सकते हैं।

### साइंटिफिक फैब्रिक डिजाइन

ये एक ऐसी फील्ड है, जिसमें डिजाइन और कंट्रोल से लेकर टेक्सटाइल मैनुफैक्चरिंग की पूरी प्रक्रिया का अध्ययन किया जाता है। या यूं कहें कि इंजीनियरिंग के सिद्धांतों के साथसाथ नए फाइबर-, यार्न या फैब्रिक डिजाइन और मैनुफैक्चर करने की तकनीक की जानकारी इसमें हासिल की जाती है।

एक टेक्सटाइल टेक्नोलॉजिस्ट का काम अपैरल, स्पोर्ट, शिपिंग, डिफेंस, मैनुफैक्चरिंग, ऑटोमोटिव, मेडिकल, पेपर-मेकिंग, फूड, फर्नीचर, एयरोस्पेस, हॉर्टिकल्चर, आर्किटेक्चर, कंस्ट्रक्शन, एग्रीकल्चर, माइनिंग जैसे सेक्टर्स में इस्तेमाल होने वाले प्रोडक्ट्स को

तैयार करना होता है।

मसलन जियो टेक्सटाइल का इस्तेमाल सड़क निर्माण में हो रहा है। इससे सड़कें ज्यादा टिकाऊ बन रही हैं। उनमें सॉयल इरोजन नहीं हो रहा है।

### जरूरी क्वालिफिकेशन

टेक्सटाइल इंजीनियरिंग में कैरियर बनाने के लिए सबसे पहले हायर सेकेंडरी में फिजिक्स, मैथ्स और केमिस्ट्री का कॉम्बिनेशन होना जरूरी है। 12वीं के बाद आप चाहें, तो टेक्सटाइल इंजीनियरिंग या टेक्नोलॉजी में ग्रेजुएशन कर सकते हैं।

इसके अलावा, दसवीं के बाद भी टेक्सटाइल टेक्नोलॉजी या इंजीनियरिंग और फैब्रिकेशन टेक्नोलॉजी में डिप्लोमा किया जा सकता है।

भारत में कई इंजीनियरिंग कॉलेज, पॉलिटेक्निक और यूनिवर्सिटीज टेक्सटाइल इंजीनियरिंग व टेक्नोलॉजी में ग्रेजुएट प्रोग्राम ऑफर करते हैं। कई इंजीनियरिंग कॉलेजों में जेईई के स्कोर के आधार पर ही छात्रों को दाखिला मिल जाता है।

### आमदनी है आकर्षक

टेक्सटाइल इंजीनियर्स शुरुआत में सालाना चार से साढ़े चार लाख रुपये आसानी से कमा सकते हैं। अगर आईआईटी सरीखे किसी इंस्टीट्यूट से ग्रेजुएशन किया है, तो मार्केट में अच्छा पैकेज मिलने की उम्मीद रहती है।-

## लिक्विड में इंजीनियरिंग



पेट्रोलियम और विभिन्न पेट्रो प्रोडक्ट्स के बढ़ते इस्तेमाल के कारण इस फील्ड में कुशल पेशेवरों की खास मांग रही है। इसी मांग को देखते हुए उत्तरप्रदेश के रायबरेलीमें पेट्रोलियम और प्राकृतिक गैस मंत्रालय द्वारा राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी की स्थापना की गई।

पेट्रोलियम, ऑयल या कैमिकल्स के क्षेत्र में इंजीनियरिंग करने के इच्छुक स्टूडेंट्स के लिए यहां बीटेक का विकल्प है। आवेदन की प्रक्रिया शुरू हो चुकी है।

### बीटेक दो स्ट्रीम्स :

आरजीआईपीटी में दो स्ट्रीम्स में बीटेक करवाया जाता है। पहली स्ट्रीम पेट्रोलियम टेक्नोलॉजी है और दूसरी स्ट्रीम कैमिकल इंजीनियरिंग है।

दोनों ही कोर्स चारचार साल के हैं। कई लोग कैमिकल इंजीनियरिंग को कमोबेश पेट्रोलियम इंजीनियरिंग के ही समान मानते हैं लेकिन यहां पेट्रोलियम इंजीनियरिंग में पेट्रोलियम, पेट्रो प्रोडक्ट्स आदि से जुड़े विज्ञान में विशेषज्ञता हासिल करने पर जोर रहता है। अपनी पसंद से आप कोर्स चुन सकते हैं।

### आवेदन करें

आवेदन के लिए आरजीआईपीटी की वेबसाइट डब्ल्यूडब्ल्यूडब्ल्यू डॉट आरजीआईपीटी डॉट एसी डॉट आईएन पर जाएं। यहां फॉर्म भरकर उसका प्रिंट लें और फिर उस पर हस्ताक्षर करके पेमेंट की डीटेल्स या फिर डिमांड ड्राफ्ट वेबसाइट पर बताए दस्तावेजों के साथ 14 जुलाई 2014 से पहले नीचे दिए पते पर पहुंचा दें।

लिफाफे पर...एप्लीकेशन फॉर्म बीटेक प्रोग्राम..... जरूर लिखें।

पता है - राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजी, रतपुर चौक, रायबरेली, उत्तरप्रदेश -229316

### क्या है योग्यता

आरजीआईपीटी के बीटेक प्रोग्राम्स में चयन का आधार जेईई 2014 (एडवांसकी रैंक सूची को बनाया जाएगा। आवेदन करने ( वाले स्टूडेंट्स के बारहवीं में कम से कम 60 प्रतिशत एग्रीगेट अंक होने चाहिए। हालांकि एससीएसटी और शारीरिक रूप से / विकलांग स्टूडेंट्स के लिए 12 वीं या समकक्ष में 55 प्रतिशत अंकों की अनिवार्यता रखी गई है

### कुछ जरूरी दस्तावेज

ऑनलाइन फॉर्म के प्रिंटआउट के साथ जो दस्तावेज आपको भेजने हैं, उन्हें पहले से नोट करके अपने पास रखें।

आरजीआईपीटी में आवेदन के लिए एप्लीकेशन फीस 1000 रूपए है। एप्लीकेशन फीस के लिए जो डिमांड ड्राफ्ट आप बनवा रहे हैं, उसे

"राजीव गांधी इंस्टीट्यूट ऑफ पेट्रोलियम टेक्नोलॉजीके पक्ष में बनवाएं और यह रायबरेली के पक्ष में देय होना चाहिए। "

डीडी के पीछे जेईई एडवांस का रजिस्ट्रेशन नंबर लिखना न भूलें। फॉर्म के प्रिंट आउट के साथ जिन दस्तावेजों की फोटो कॉपीज अटैस्ट करवाकर भेजनी हैं वे इस प्रकार हैं-

जेईई एडवांस 2014 का एडमिट कार्ड,

10वीं और 12वीं की मार्कशीट और

सर्टीफिकेट, जाति, विकलांगता प्रमाण पत्र (यदि मान्य हो), ओबीसी आवेदक को नॉन क्रीमीलेयर सर्टीफिकेट और सेल्फ डिक्लेरेशन,

एक पासपोर्ट साइज और एक स्टैंप साइज रंगीन फोटो।

आरजीआईपीटी में प्रवेश के इच्छुक स्टूडेंट्स को इसमें अलग से रजिस्ट्रेशन करवाना होगा।

### कुछ अहम तारीखें

आरजीआईपीटी में ऑनलाइन आवेदन की तिथि 10 जूलाई, 2014 है।

फॉर्म का प्रिंट, पेमेंट डिटेल्स डिमांड ड्राफ्ट और अन्य दस्तावेज संस्थान तक भिजवाने की अंतिम तिथि /14 जूलाई, 2014 है।

शॉर्टलिस्ट किए गए स्टूडेंट्स की लिस्ट संस्थान की वेबसाइट पर 17 जूलाई को डाली जाएगी।

पेमेंट स्वीकार करने की अंतिम तिथि -23 जूलाई, 2014

क्लासेज 4 अगस्त से शुरू की जाएगी।

आवेदन करने वाले स्टूडेंट्स की एडवांस रैंक के आधार पर आरजीआईपीटी द्वारा उन्हें शॉर्टलिस्ट किया जाएगा और फिर प्रवेश दिया जाएगा।