

A Gateway for your Dreams: GATE Exam

Being an Engineering Student, there are some terms that we often come across and one of them is "GATE Exam".

Preparing or appearing for GATE Exam? Great!

Having second thoughts for GATE Exam? It's fine, as this article will give you a concrete approach.

Following are some frequent questions about GATE that we've answered and this will help you through the process!



What is GATE and WHY is it so important?

Graduate Aptitude Test in Engineering aka GATE is conducted at the national level in India which importantly tests the comprehension (understanding) of various engineering and science undergraduate subjects.



This exam is regulated and conducted by IISc (Indian Institute of Science), Seven Indian Institutes of Technology (IITs) at IIT Roorkee, Delhi, Guwahati, Kanpur, Kharagpur, Madras, Bombay on behalf of National Coordination Board-GATE, Department of Higher Education, Ministry of Human Resource Development (MHRD), Government of India in eight zones across the country.

Started first in 1983, now GATE is internationally open to a few countries too.

GATE Exam is a 100 marks paper which consist of 65 questions which must be solved within a time limit of 3 hours.

Why appear for GATE Exam?

Focussing on the importance of appearing for GATE Exam, listed below are some of them:

A boon for higher studies:

An amazing GATE score provides you the opportunity to apply for for M.Tech or ME in some prestigious institutes like IITs, NIT or IISC with a **stipend of Rs. 8000/-** during the course and needless to mention that after the successful completion of your M.Tech or ME, you will be blessed with some attractive packages from the companies. Certain IIT's, IIM's and NITIE Bombay provide management courses through GATE scores



So if you've ever dreamt of getting into an IIT, your GATE score could give you yet another chance to fulfil your dream.

A bridge for your Foreign University dreams:

Since the **GATE score is valid for 2 years**, a valid score can fulfil your dreams of studying in a foreign university. National University of Singapore (NUS), Nanyang Technological University (NTU), Technical University of Germany all of these universities look out for **90 percentile** in GATE.

Bigger Job Opportunities:

The most looked out for type of benefit by GATE. The salary range can vary from eight lakhs to thirty lakhs per year if you have pursued M.Tech or ME through GATE examination. Private sector companies are prefer candidates who have completed ME or M.Tech through GATE Exam. Firms like Google, Samsung, Tata, Maruti, Cisco, and several other eminent companies pick engineering candidates holding a Masters-level qualification.

Many of the dream companies are showing their inclination in hiring M.Tech or ME students during the placement since a masters degree is always more preferable. Multinational firms shortlist candidates on the basis of GATE score.

PSU Sectors:

Many PSUs are hiring candidates with good GATE scores. BHEL, IOCL, ONGC, SAIL, NTPC, HPCL, PGCIL, BARC and over 200 more PSUs present in the country consider GATE scores as a satisfactory criterion in their recruitment process. A job in a PSU ensures you keep in touch with exciting and intriguing engineering advances while enjoying the security and perks of a Govt. Salary. You can also get promoted once you perform well. Working on a PSU will not only help you to lead an affluent life but also you will get an opportunity to serve your country.

Becoming a GATE Exam Mentor:

Many private institutes used to prepare aspiring candidates for the GATE exam. One can also take up a teaching job at such institutes and can earn a high salary as GATE instructor or mentor. A good rank in GATE can also secure you a position of a professor in IIT or NIT.

Sponsorship Opportunities:

A good GATE score will make you eligible for sponsorship programs of government bodies like DRDO, ISRO, BARC, Doordarshan, IAF, INDIAN NAVY and Army etc. The sponsorship comes with a condition that you need to work for those organizations for a few years after completion of your M.Tech or ME. You will be eligible for more benefits with a valid GATE score.

Thus, a good GATE score unlocks many portals of opportunities and achievements.

Now that we've got to know the benefits GATE can serve, let's look into the details of the exam.

Who can appear for GATE Exam?

Eligibility criteria:

Certain conditions are necessary for appearing for GATE Exam

- Students who have successfully completed their 10+2+2 or 10+3+1 and are currently studying in 3rd year or higher years of any undergraduate degree program (10+2+3 (ongoing) programs).
- Students who has already completed any government approved degree program in Engineering / Technology / Architecture / Science / Commerce / Arts.
- Master's degree students Final Year in any branch of Science / Mathematics / Computer Applications or equivalent.



There is no age limit for the eligible students to appear in GATE exam.

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Mechanical Engineering	ME
Electrical Engineering	EE
Electronics and Communications	EC
Civil Engineering	CE
Computer Science and IT	CS
Instrumentation Engineering	IN
Aerospace Engineering	AE
Agricultural Engineering	AG
Architecture and Planning	AR
Biotechnology	BT
Chemical Engineering	CH
Chemistry	CY
Ecology and Evolution	EY
Geology and Geophysics	GG
Mathematics	MA
Mining Engineering	MN
Metallurgical Engineering	MT

Petroleum Engineering	PE
Production and Industrial Engineering	PI
Textile Engineering and Fiber Science	TF
Engineering Sciences	XE
Environmental Science and Engineering	ES
Humanities and Social Sciences	XH
Life Sciences	XL

What is the Paper Pattern?

The paper consists of 65 questions that will be entirely objective type, the types are:

Multiple Choice Questions (MCQ):

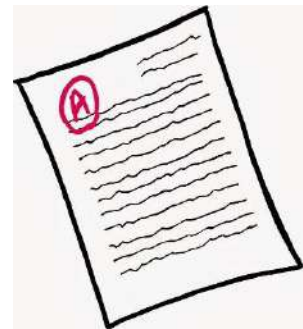
Carries 1 or 2 marks each, has negative marking (0.33 for 1 mark), only 1 option is correct out of four.

Multiple Select Questions (MSQ):

Carries 1 or 2 marks each, has no negative marking, 1 or more than 1 option correct out of four.

Numerical Answer Type (NAT) Questions:

Numerical Answer Type questions carry 1 or 2 marks each in most of the GATE papers and sections. For these type of questions, the answer is a real number that needs to be entered by the candidate with the help of virtual numeric keypad displayed on the monitor. No choices will be shown for Numerical Answer Type (NAT) Questions. The answer can be a number such as 10 or -10 (an integer only). The answer for these type of questions may also be in decimals, for example, 10.1 (one decimal) or 10.01 (two decimals) or -10.001 (three decimals). These type of questions will always be mentioned with, up to which decimal places, the candidates have to consider the answer. Also, for some NAT type of problems an appropriate range will be considered while evaluating so that the candidates are not unduly penalized for the usual round-off errors. Candidates are advised to do the rounding off at the end of the calculation (not in between steps). Wherever required and possible, it is better to give NAT answer up to a maximum of three decimal places.



Sections:

Will comprise of total 3 sections except for AR, CY, GG, EY, XL, PH and MA papers:

- **Engineering Mathematics Questions (13 – 15 marks)**

- **General Aptitude Questions (15 marks) (tests the analytic skills in verbal ability and numerical ability)**
- **Core Questions from Subject (70-72 marks)**

GATE Scores:

GATE exam results are usually announced in the 3rd week of March (around 40 days from the GATE exam date). A gate score is calculated by the GATE exam conducting authorities by using the normalized or the actual marks of the candidates as per the GATE Paper they have appeared for.

The GATE score card consists of the following -

- GATE Score (on a scale of 1000)
- GATE Marks (out of 100)
- Qualifying marks for General, OBC and SC/ST/PwD categories.
- All India Rank
- Number of candidates appeared in the GATE paper

For admissions into the top IITs and IISc Universities, the student must have a good GATE score with the GATE rank below 200.

GATE 2022:

GATE Exam 2022, will be conducted by IIT Kharagpur. IIT KGP will release official GATE 2022 notification in month of September, 2021 along with GATE Exam Date, GATE Eligibility, GATE Exam Pattern, and GATE Updated Syllabus.

The GATE 2022 will be held tentatively in the First week of February across various cities.



How to Enrol?

- **Register:** Candidates have to register through GOAPS portal by entering their name, email ID and mobile number.
- **Fill Application Form:** Login and enter all the necessary details like personal, details and selection of GATE paper and exam centres as per the preference is to be done.
- **Upload Scanned Images:** The photograph, signature and category certificate (if applicable) is to be scanned and uploaded as per the specifications mentioned by the authorities.
- **Payment of Application Fees:** To complete the application process of GATE exam, payment of the application fee as per the category one belongs to in online mode i.e., net banking/debit card/credit card was to be made.
- **Submit Application Form:** After completing the above given steps, review and submit the application form.

That would be all! All the best dear GATE Aspirants!

