1. **WHAT IS GATE**

GATE- Graduate Aptitude Test in Engineering is an All-India examination administered and conducted in eight zones across the country by the GATE Committee comprising of Faculty members from IISc Bangalore and other seven IIT’s on behalf of the National Coordinating Board, Department of Education, Ministry of Human Resources Development.

GATE is considered one of the toughest examination for engineers and GATE score of a candidate reflects the relative performance of a candidate on All India basis. The score card is used for admissions to various post-graduate education programs like M.E, M.Tech, Ph.D etc in prestigious education institutes, with financial assistance provided by MHRD and other government agencies. Recently, GATE scores are also being used by several Navratna and Maharatana Public Sector Undertakings for recruiting engineers at various posts. GATE is also recognized by various foreign institutes for admitting candidate for post-graduation programs.

In GATE examination, candidates can apply for one of the 24 papers listed in the table given below. Candidates are expected to appear in a paper appropriate to the discipline of their qualifying degree. However, candidates are free to choose any paper according to their admission plan, keeping in mind the eligibility criteria of the institutions in which they wish to seek admission.

<table>
<thead>
<tr>
<th>Paper</th>
<th>Code</th>
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<tbody>
<tr>
<td>Aerospace Engineering</td>
<td>AE</td>
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<tr>
<td>Agricultural Engineering</td>
<td>AG</td>
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<tr>
<td>Architecture and Planning</td>
<td>AR</td>
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<tr>
<td>Biotechnology</td>
<td>BT</td>
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<tr>
<td>Civil Engineering</td>
<td>CE</td>
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<tr>
<td>Chemical Engineering</td>
<td>CH</td>
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<tr>
<td>Computer Science &amp; Information Technology</td>
<td>CS</td>
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<tr>
<td>Chemistry</td>
<td>CY</td>
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<tr>
<td>Electronics and Communication Engineering</td>
<td>EC</td>
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<tr>
<td>Electrical Engineering</td>
<td>EE</td>
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<tr>
<td>Engineering Sciences</td>
<td>XE</td>
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<tr>
<td>Ecology and Evolution</td>
<td>EY</td>
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<tr>
<td>Petroleum Engineering</td>
<td>PE</td>
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<tr>
<td>Geology and Geophysics</td>
<td>GG</td>
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<tr>
<td>Instrumentation Engineering</td>
<td>IN</td>
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<tr>
<td>Life Sciences</td>
<td>XL</td>
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<tr>
<td>Mathematics</td>
<td>MA</td>
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<tr>
<td>Mechanical Engineering</td>
<td>ME</td>
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<td>Mining Engineering</td>
<td>MN</td>
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<tr>
<td>Metallurgical Engineering</td>
<td>MT</td>
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<tr>
<td>Physics</td>
<td>PH</td>
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<tr>
<td>Production and Industrial Engineering</td>
<td>PI</td>
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<tr>
<td>Textile Engineering &amp; Fiber Science</td>
<td>TF</td>
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<tr>
<td>Statistics</td>
<td>ST</td>
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</tbody>
</table>
2. **GATE 2019 Eligibility**

The following candidates are eligible to appear in GATE:

- Bachelor’s degree holders in Engineering/Technology (4 years after 10+2 or 3 years after B.Sc./Diploma in Engineering/Technology) and those who are in the final year of such programs.
- Bachelor’s degree holders in Architecture (Five years course) and those who are in the final year of such programs.
- Bachelor’s degree holders of Four-year program in Science (B.S.) and those who are in the final year of such programs.
- Master’s degree holders in any branch of Science/ Mathematics/ Statistics/Computer Applications or equivalent and those who are in the final year of such programs.
- Holders of Four-year Integrated Master’s degree (Post B.Sc.) in Engineering/Technology and those who are in the second or higher year of such programs.
- Holders of Five-year Integrated Master’s degree or Dual Degree in Engineering/Technology and those who are in the fourth or higher year of such programs.
- Holders of Five-year integrated M.Sc. or Five-year integrated B.Sc./M.Sc. degree and those who are in the final year of such programs.
- Candidates with qualifications obtained through examinations conducted by professional societies recognized by UPSC/AICTE/ MHRD as equivalent to B.E./B.Tech those who have completed Section A of AMIE or equivalent of such professional courses are also eligible.

2. **Opportunities through GATE**

- **M.Tech/M.S./M.E/Ph.D** - Candidates on qualifying GATE, get a financial aid of 12400/- per month in the form of UGC scholarship. After the completion of course students get lucrative campus placements in National and International, private or public companies.
- **PhD.** – Candidates with keen interest in Research and Development can also opt for PhD from IITs/NITs and various other reputed institutions.
- **PGDM/PGDIE** - Students interested in management can swing in the management line by pursuing a PG Diploma of 2 years in Industrial Engineering. NITIE Mumbai offers the best campus placement after the completion of this course.
- Several reputed PSUs and research organizations recruit on basis of GATE Score. i.e. IOCL, NTPC, BHEL, PGCIL, BARC etc.
- **Teaching:** Professor, Asst. Professor at IITs, NITs, reputed educational institutes etc.
- **Junior Research Associates/ Senior Project Associates**
- **Career in Research & Development**
- **Many renowned private firms shortlist candidates for personal interview based on the GATE score.**
- **A good number of universities abroad also select the candidates on the basis of the GATE score for higher studies.**