

# GATE

#### What is GATE?

Graduate Aptitude Test in
Engineering is an All-India test
authorised and managed in
eight regions across the country.
The exam is conducted by the



GATE Committee, comprising faculty members from IISc and seven other IITs on behalf of the Ministry of Human Resources Development, National Coordinating Board and Department of Education. The purpose of the GATE exam is to test students' knowledge in subjects like Engineering and Science.

The GATE scorecard is also used by multiple PSUs (Public Sector Undertakings) to recruit applicants for distinguished jobs at Indian Oil, GAIL and Hindustan Petroleum, etc.

You can check the GATE highlights in the table below:

# **GATE Exam Highlights**

| Particulars     | Details                               |
|-----------------|---------------------------------------|
| Full Exam Name  | Graduate Aptitude Test in Engineering |
| Short Exam Name | GATE                                  |



| Managing By               | Indian Institute of Technology Kharagpur |
|---------------------------|--|
| Exam Level                | National                                 |
| Languages                 | English                                  |
| Mode of Application       | Online                                   |
| Application Fee (General) | 1500                                     |
| Mode of Exam              | Online                                   |
| Mode of Question Papers   | MSQ/MCQ/NAT                              |
| Participating Colleges    | 1072                                     |
| Exam Duration             | 3 Hours                                  |

# Explore GATE Exam Highlights by Year:

**GATE 2023** 

**GATE 2021** 



**GATE 2020** 

**GATE 2019** 

### **GATE Exam Latest News:**

- GATE 2024 online application will be opened soon for registration. Check the GATE 2024 Application Form for more details
- GATE 2024 Brochure, along with the latest GATE 2024 Syllabus, Notifications, and GATE 2024 Important Dates, will be live on the official website.

# **GATE 2024 Exam Dates**

| Particulars   | Dates                                     |
|---|---|
| GATE Online Application Processing  | August, 2023                              |
| Closing of submission of application form   | October 2023                              |
| Last Date of Extended period for Online Registration Application (With Late Fees) | October, 2023                             |
| Last date for requesting a change of examination city                             | November 2023                             |
| Admit Card  | January 2024                              |
| GATE 2024 Examination   | 4th, 5th, 11th and 12th<br>February, 2024 |



| Announcement of Result | 16th March, 2024 |
|------------------------|------------------|
|                        |                  |

# GATE Organising Institutes: The Important Assets Taking the GATE Examination Forward!

GATE (Graduate Aptitude Test in Engineering) – Certainly, this examination needs no introduction if you belong to the engineering and science industry. It is one of the most prestigious examinations in the country that comprises numerous benefits. However, if you are a newbie in this whole concept of GATE and the examination procedure, then you might be wondering who is handling all the massive setups of this prominent examination. Well, it is none other than the most promising institute in India: IIT (Indian Institute of Technology).

Yes, this prestigious exam is administered by the GATE Committee, comprising faculty members from IISc Bangalore and seven other IITs on behalf of the Ministry of Human Resources Development, the National Coordinating Board, and the Department of Education. You can check the name of the organising institutes for the GATE examination in the table below.

| Year | Organizing Institute |
|------|----------------------|
| 2024 | IISC, Bangalore      |
| 2023 | IIT, Kanpur          |
| 2022 | IIT, Kharagpur       |



| 2021 | IIT, Bombay     |
|------|-----------------|
| 2020 | IIT, Delhi      |
| 2019 | IIT, Madras     |
| 2018 | IIT, Guwahati   |
| 2017 | IIT, Roorkee    |
| 2016 | IISc, Bangalore |

# GATE Syllabus 2024 – Revised PDFs Download

There are 29 disciplines or Subjects under GATE Exam 2024. A candidate can appear for any of the below-given list of disciplines.

General Aptitude (GA) Syllabus (Common for All Papers)

1. GATE Syllabus For Aerospace Engineering (AE)

2. GATE Syllabus For Agricultural Engineering (AG)

3. GATE Syllabus For Architecture and Planning (AR)

# Acelt



| 4. GATE Syllabus For Biotechnology (BT)                              |  |  |
|--|--|--|
| 5. GATE Syllabus For Civil Engineering (CE)                          |  |  |
| 6. GATE Syllabus For Chemical Engineering (CH)                       |  |  |
| 7. GATE Syllabus For Computer Science Engineering (CSE)              |  |  |
| 8. GATE Syllabus For Chemistry (CY)                                  |  |  |
| 9. GATE Syllabus For Electronics and Communication Engineering (ECE) |  |  |
| 10. GATE Syllabus For Electrical Engineering (EE)                    |  |  |
| 11. GATE Syllabus For Ecology and Evolution (EY)                     |  |  |
| 12. GATE Syllabus For Geology and Geophysics (GG)                    |  |  |
| 13. GATE Syllabus For Instrumentation Engineering (IN)               |  |  |
| 14. GATE Syllabus For Mathematics (MA)                               |  |  |
| 15. GATE Syllabus For Mechanical Engineering (ME)                    |  |  |



| 16. GATE Syllabus For Mining Engineering (MN)  |  |  |
|--|--|--|
| 17. GATE Syllabus For Metallurgical Engineering (MT)   |  |  |
| 18. GATE Syllabus For Petroleum Engineering (PE)   |  |  |
| 19. GATE Syllabus For Physics (PH)   |  |  |
| 20. GATE Syllabus For Production and Industrial Engineering (PI)   |  |  |
| 21. GATE Syllabus For Textile Engineering and Fibre Science (TF)   |  |  |
| 22. GATE Syllabus For Statistics (ST)  |  |  |
| 23. GATE Syllabus For Bio Medical Engineering (BM)   |  |  |
| 24. GATE Syllabus For Engineering Sciences(XE) – Any 2 optional sections   |  |  |
| <ul> <li>Engineering Mathematics (XE A) – Compulsory section Syllabus</li> <li>Fluid Mechanics (XE B) Syllabus</li> <li>Material Science (XE C) Syllabus</li> <li>Solid Mechanics (XE D) Syllabus</li> <li>Thermodynamics (XE E) Syllabus</li> <li>Polymer Science &amp; Engineering (XE F) Syllabus</li> <li>Food Technology (XE G) Syllabus</li> </ul> |  |  |
| Atmospheric and Oceanic Sciences (XE H) Syllabus   |  |  |



#### 25. GATE Syllabus For Life Sciences (XL) Syllabus – Any 2 optional sections

- Chemistry (XLP) Compulsory section Syllabus
- Biochemistry (XL Q) Syllabus
- Botany (XL R) Syllabus
- Microbiology (XLS) Syllabus
- Zoology (XLT) Syllabus
- Food Technology (XL U) Syllabus

#### 26. Humanities and Social Sciences (XH) Syllabus

- Reasoning and Comprehension (XH-B1) section syllabus
- Economics (XH-C1) Syllabus
- English (XH-C2) Syllabus
- Linguistics (XH-C3) Syllabus
- Philosophy (XH-C4) Syllabus
- Psychology (XH- C5) Syllabus
- Sociology (XH-C6) Syllabus

#### 27. Environmental Science and Engineering (ES) Syllabus

- 28. Geomatics Engineering (GE) Syllabus
- 29. Naval Architecture and Marine Engineering (NM) Syllabus

#### Meanwhile, two new subjects introduced to the 2022 Syllabus were:

- 1. ES (Environmental Science and Engineering)
- 2. XH (Humanities and Social Sciences) in Economics / English / Linguistics / Philosophy / Psychology / Sociology

In addition, two subjects were introduced to the 2024 Syllabus. They are:

- 1. NM (Naval Architecture and Marine Engineering)
- 2. GE (Geomatics Engineering)



# GATE Syllabus 2024 – Subject Wise Topics

| General Aptitude Syllabus (Common for all papers)              |  |  |
|--|--|--|
| Verbal Ability   | Numerical Ability                          |  |
| Biomedical Engineering Syllabus                                |  |  |
| Engineering Mathematics  | Electrical Circuits                        |  |
| Analog and Digital Electronics                                 | Signals and Systems                        |  |
| Measurement and Digital Electronics                            | Sensors and Bioinstrumentations            |  |
| Medical Imaging System   | Biomaterials                               |  |
| Human Anatomy and Physiology                                   | Biomechanics                               |  |
| Aerospace Engineering Syllabus                                 |  |  |
| Fourier Series   | Laplace Transforms                         |  |
| Numerical methods for linear and nonlinear algebraic equations | Numerical integration and differentiation. |  |



| Dynamic stability   | Euler angle   |
|---|---|
| Equations of motion   | Aerodynamic forces and moments, stability & control derivatives |
| Decoupling of longitudinal and lateral-<br>directional dynamics | Longitudinal modes; lateral-<br>directional modes.              |
| Orbit transfer  | In-plane and out-of-plane                                       |
| Elementary ideas of viscous flows including boundary layers     | Wind Tunnel Testing   |
| Measurement and visualization techniques                        | Vibration of beams  |
| Theory of elasticity  | Equilibrium and compatibility equations                         |
| Airy's stress function  |   |
| Agriculture Engineering Syllabus                                |   |
| Engineering Mathematics   | Farm Machinery  |



| Farm Power                          | Soil and Water Conservation<br>Engineering       |  |
|-------------------------------------|--|--|
| Irrigation and Drainage Engineering | Agricultural Processing<br>Engineering           |  |
| Dairy and Food Engineering          |  |  |
| Architecture & Planning Syllabus    |  |  |
| Architecture and Design             | Building Materials, Construction, and Management |  |
| Building and Structures             | Environmental Planning and<br>Design             |  |
| Urban Design                        | Urban Planning and Housing                       |  |
| Planning Techniques and Management  | Services, Infrastructure, and<br>Transportation  |  |
| Biotechnology Syllabus              |  |  |
| Engineering Mathematics             | General Biotechnology                            |  |
| Recombinant DNA Technology          | Plant and Animal Biotechnology                   |  |



| Bioprocess Engineering and Process<br>Biotechnology |   |  |
|---|---|--|
| Civil Engineering Syllabus                          |   |  |
| Engineering Mathematics                             | Structural Engineering                  |  |
| Geotechnical Engineering                            | Water Resources Engineering             |  |
| Environmental Engineering                           | Transportation Engineering              |  |
| Geomatics Engineering                               |   |  |
| Chemical Engineering Syllabus                       |   |  |
| Engineering Mathematics                             | Process Calculations and Thermodynamics |  |
| Fluid Mechanics and Mechanical Operations           | Heat Transfer                           |  |
| Mass Transfer                                       | Chemical Reaction Engineering           |  |
| Instrumentation and Process Control                 | Plant Design and Economics              |  |
| Chemical Technology                                 |   |  |



| Computer Science and Information Technology Syllabus |                                 |  |
|--|---------------------------------|--|
| Engineering Mathematics                              | Digital Logic                   |  |
| Computer Organization and Architecture               | Programming and Data Structures |  |
| Algorithms   | Theory of Computation           |  |
| Compiler Design                                      | Operating System                |  |
| Databases  | Computer Networks               |  |
| Chemistry Syllabus                                   |                                 |  |
| Physical Chemistry                                   | Organic Chemistry               |  |
| Inorganic Chemistry                                  |                                 |  |
| Electronics and Communication Engineering Syllabus   |                                 |  |
| Engineering Mathematics                              | Networks, Signals, and Systems  |  |
| Electronic Devices                                   | Analog Circuits                 |  |



| Digital Circuits                                     | Control System                                  |  |
|--|---|--|
| Communication  | Electromagnetics                                |  |
| Electrical Engineering Syllabus                      |   |  |
| Engineering Mathematics                              | Electrical Circuits                             |  |
| Electromagnetic Fields                               | Signals and Systems                             |  |
| Electrical Machines                                  | Power Systems                                   |  |
| Control Systems                                      | Electrical and Electronic<br>Measurements       |  |
| Analog and Digital Electronics                       | Power Electronics                               |  |
| Environmental Science & Engineering (New)            |   |  |
| Environmental Management and Sustainable Development | Environmental Chemistry                         |  |
| Environmental Microbiology                           | Water Resources and<br>Environmental Hydraulics |  |



| Water & Wastewater Treatment and<br>Management | Air and Noise Pollution                     |  |
|--|---|--|
| Solid and Hazardous Waste Management           | Global and Regional<br>Environmental Issues |  |
| Ecology and Evolution Syllabus                 |   |  |
| Ecology  | Evolution                                   |  |
| Mathematics and Quantitative Ecology           | Behavioral Ecology                          |  |
| Geology And Geophysics Syllabus                |   |  |
| Geology  | Geophysics                                  |  |
| Instrumentation Engineering Syllabus           |   |  |
| Engineering Mathematics                        | Control Systems                             |  |
| Electrical Circuits                            | Analog and Digital Electronics              |  |
| Signals and Systems                            | Measurements                                |  |



| Sensors and Industrial Instrumentation | Communication and Optical<br>Instrumentation          |
|--|---|
| Mathematics Syllabus                   |   |
| Calculus                               | Linear Algebra  |
| Rear Analysis                          | Complex Analysis                                      |
| Ordinary Differential Equations        | Algebra   |
| Functional Analysis                    | Numerical Analysis                                    |
| Partial Differential Equations         | Topology  |
| Linear Programming                     |   |
| Mechanical Engineering Syllabus        |   |
| Engineering Mathematics                | Applied Mechanics and Design                          |
| Fluid Mechanics and Thermal Science    | Material, Manufacturing and<br>Industrial Engineering |
| Mining Engineering Syllabus            |   |



|   | ]  |  |
|---|--|--|
| Engineering Mathematics   | Mine Development Surveying                           |  |
| Geomechanics and Ground Control                                   | Mining Methods and Machinery                         |  |
| Surface Environment, Mine Ventilation, and<br>Underground Hazards | Mine Economics, Mine Planning,<br>System Engineering |  |
| Metallurgical Engineering Syllabus                                |  |  |
| Engineering Mathematics   | Thermodynamics and Rate Process                      |  |
| Extractive Metallurgy   | Physical Metallurgy                                  |  |
| Mechanical Metallurgy   | Manufacturing Process                                |  |
| Physics Syllabus  |  |  |
| Mathematical Physics  | Classical Mechanics                                  |  |
| Electromagnetic Theory  | Quantum Mechanics                                    |  |
| Thermodynamics and Statistical Physics                            | Atomic and Molecular Physics                         |  |
| Solid State Physics and Electronics                               | Nuclear and Particle Physics                         |  |



| Production and Industrial Engineering Syllabus |  |  |
|--|--|--|
| Engineering Mathematics                        | General Engineering                          |  |
| Manufacturing Processes                        | Quality and Reliability                      |  |
| Industrial Engineering                         | Operation Research an Operational Management |  |
| Textile Engineering Syllabus                   |  |  |
| Engineering Mathematics                        | Textile Engineering and Fibre<br>Science     |  |
| XE-A (Engineering Mathematics Syllabus)        |  |  |
| Linear Algebra                                 | Calculus                                     |  |
| Vector Calculus                                | Ordinary Differential Equations              |  |
| Partial Differential Equations                 | Complex variables                            |  |
| Probability and Statistics                     | Numerical Methods                            |  |
| XE-B (Fluid Mechanism Syllabus)                |  |  |



| Flow and Fluid Properties         | Kinematics                                    |
|-----------------------------------|---|
| Integral analysis                 | Differential Analysis                         |
| Inviscid flows                    | Dimensional analysis                          |
| Internal flows                    | Prandtl boundary layer equations              |
| XE-C (Material Sciences Syllabus) |   |
| Processing of Materials           | Characterization Techniques:                  |
| Structure and Imperfections       | Thermodynamics and Kinetics                   |
| Properties of Materials           | Material types                                |
| Environmental Degradation         | Elements of Quantum Mechanics and Mathematics |
| XE-E (Thermodynamics Syllabus)    |   |
| Basic Concepts                    | Law of Thermodynamics                         |
| Thermodynamics Cycle              | Thermodynamics Relations                      |



| Ideal Gas Mixtures                           |                               |  |
|--|-------------------------------|--|
| XE-F (Polymer Science and Engineering Syllab | ous)                          |  |
| Chemistry of high polymers                   | Polymer Characterization      |  |
| Synthesis and properties                     | Polymer blends and composites |  |
| Polymer Technology                           | Polymer rheology              |  |
| Polymer processing                           | Polymer testing               |  |
| XE-G (Food Technology Syllabus)              |                               |  |
| Food Chemistry and Nutrition                 | Food Microbiology             |  |
| Food Products Technology                     | Food Engineering              |  |
| XL-P (Chemistry Syllabus)                    |                               |  |
| Atomic Structure and Periodicity             | Structure and Bonding         |  |
| s, p and d Block Elements                    | Chemical Equilibria           |  |



| Electrochemistry                 | Reaction Kinetics   |  |
|----------------------------------|---|--|
| Thermodynamics                   | Structure-Reactivity Correlations<br>and Organic Reaction<br>Mechanisms |  |
| XL-R (Botany Syllabus)           |   |  |
| Plant Systematics                | Plant Anatomy   |  |
| Morphogenesis & Development      | Physiology and Biochemistry   |  |
| Genetics                         | Plant Breeding and Genetic<br>Modification                              |  |
| Economic Botany                  | Plant Pathology   |  |
| Ecology and Environment          | _   |  |
| XL-S (Microbiology Syllabus)     |   |  |
| Historical Perspective           | Methods in Microbiology   |  |
| Microbial Taxonomy and Diversity | Prokaryotic and Eukaryotic Cells:<br>Structure and Function             |  |



| Microbial Growth                          | Control of Micro-organisms                           |
|---|--|
| Microbial Metabolism                      | Microbial Diseases and Host-<br>Pathogen Interaction |
| Chemotherapy/Antibiotics                  | Microbial Genetics                                   |
| Microbial Ecology                         |  |
| XL-T (Zoology Syllabus)                   |  |
| Animal world                              | Genetics   |
| Evolution                                 | Biochemistry and Molecular<br>Biology                |
| Cell Biology                              | Gene expression in Eukaryotes                        |
| Animal Anatomy and Physiology             | Parasitology and Immunology                          |
| Development Biology                       | Ecology  |
| Animal Behavior                           |  |
| XH-B1 (Reasoning and Comprehension) (New) |  |



| Reading Comprehension                                    | Expression               |
|--|--------------------------|
| Analytical reasoning                                     | Logical reasoning        |
| XH-C1 (Economics) (New)                                  |                          |
| Statistics, Econometrics and Mathematical Economics      | Microeconomics           |
| Macroeconomics   | International Economics  |
| Public Economics   | Development Economics    |
| Indian Economy   | _                        |
| XH-C3 (Linguistics) (New)                                |                          |
| Areal Typology, Universals, Cross-linguistic<br>Features | Language and Linguistics |
| Levels of Grammar and Grammatical<br>Analysis            | Historical Linguistics   |
| Sociolinguistics   | Methods of analysis      |



| Applied Linguistics                               | _   |  |
|---|---|--|
| XH-C4 (Philosophy) (New)                          |   |  |
| Classical Indian Philosophy                       | Contemporary Indian Philosophy                  |  |
| Classical and Modern Western Philosophy           | Contemporary Western Philosophy                 |  |
| XH-C5 (Psychology) (New)                          |   |  |
| Perception, Learning, Memory, and Forgetting      | Cognition: Thinking, Intelligence, and Language |  |
| Research Methods and Statistics                   | Psychometrics                                   |  |
| The biological and evolutionary basis of behavior | Personality                                     |  |
| Applications of Psychology                        | Motivation, Emotion, and Stress<br>and Coping   |  |
| Social psychology                                 | Development across the life span                |  |
| XH-C6 (Sociology) (New)                           |   |  |



| Family, Marriage, and Kinship               | Sociological Theory                 |
|---|-------------------------------------|
| Research Methodology and Methods            | Sociological Concepts               |
| Agrarian Sociology and Rural Transformation | Indian Society / Sociology of India |
| Social Movements                            | Sociology of Development            |

After analysing the branch wise or subject wise GATE Syllabus PDF, students can start preparing diligently for the exams by referring to the correct GATE Preparation books, notes, question papers and other reference material, as applicable. Practising the GATE Previous Year Papers will also help the students to boost their performance in the GATE exams.

#### **GATE Exam Pattern 2024**

Meanwhile, students preparing for the GATE exams will also find the GATE Exam Pattern pretty helpful. Preparing for the exams by referring to the syllabus and based on the marks' distribution mentioned in this examination pattern is the best way to perform well and score in the exams. All the test papers of GATE 2024 are completely objective. The Pattern of Questions may include some MCQs (Multiple Choice Questions) and Numerical Answer Type (NAT) Questions.

Students are advised to check the marks and topic weightage from this detailed marking scheme given in the syllabus for GATE 2024.



### Architecture and Planning (AR) New Pattern 2024

The Paper contains General Aptitude (GA) section (15 Marks) as applicable for all papers of GATE 2024.

The Paper consists of two parts covering the syllabus: Part A (60 marks) and Part B (25 marks).

Part A is compulsory for all the candidates.

**Part B contains two optional sections:** Part B1 (Architecture) and Part B2 (Planning).

#### Find the details of the Section Wise marks' distribution.

| Paper Code  |                                   |                  | Marks Distribution  |                         |
|---|-----------------------------------|------------------|---|-------------------------|
| Distribution of Questions in all Papers except AR, CY, EY, GG, MA, PH, XH and XL. |                                   |                  | General Aptitude (GA) –<br>15,<br>Engineering<br>Mathematics –13, and |                         |
|   |                                   |                  | The subject of the<br>Paper – 72                                      |                         |
| Distribution of Questions in AR, CY, EY, GG, MA, PH, XH, and XL                   |                                   |                  | General Aptitude (GA)-<br>15 and<br>The subject of the<br>Paper- 85   |                         |
| Paper Codes   | General<br>Aptitude (GA)<br>Marks | Subject<br>Marks | Total<br>Marks  | Total Time<br>(Minutes) |



| AE, AG, BT, CE, CH, CS, CY, EC, EE, ES, EY, IN, MA, ME, MN, MT, PE, PH, PI, TF, ST, and BM | 15 | 85               | 100 | 180 |
|--|----|------------------|-----|-----|
| GG [Part A + Part B (Section 1<br>Geology Or Section 2<br>Geophysics)]                     | 15 | 25 + 60          | 100 | 180 |
| AR [Part A + Part B (Section 1<br>Architecture Or Section 2<br>Planning)]                  | 15 | 25 + 60          | 100 | 180 |
| XE (Section A + Any Two<br>Sections)   | 15 | 15 + (2 x<br>35) | 100 | 180 |
| XH (Section B1 + Any One<br>Section)   | 15 | 25 +(1x<br>60)   | 100 | 180 |
| XL (Section P + Any Two<br>Sections)   | 15 | 25 + (2 x<br>30) | 100 | 180 |

# **GATE Cutoff:**

| GATE Paper Name                | General | ОВС  | SC/ST/PWD |
|--------------------------------|---------|------|-----------|
| Aerospace Engineering (AE)     | 29.8    | 26.8 | 19.8      |
| Agriculture Engineering (AG)   | 26.3    | 23.6 | 17.5      |
| Architecture and Planning (AR) | 37.3    | 33.5 | 24.8      |



| Biomedical Engineering (BM)                    | 25   | 22.5 | 16.6 |
|--|------|------|------|
| Biotechnology (BT)                             | 35.5 | 31.9 | 23.6 |
| Civil Engineering (CE)                         | 30.4 | 27.3 | 20.2 |
| Chemical Engineering (CH)                      | 25.3 | 22.7 | 16.8 |
| Computer Science & Information Technology (CS) | 25   | 22.5 | 16.6 |
| Chemistry (CY)                                 | 27.5 | 24.7 | 18.3 |
| Electronics & Communication Engineering (EC)   | 25   | 22.5 | 16.6 |
| Electrical Engineering (EE)                    | 30.7 | 27.6 | 20.4 |
| Environmental Science & Engineering (ES)       | 25.9 | 23.3 | 17.2 |
| Ecology & Evolution (EY)                       | 33.4 | 30   | 22.2 |
| Geology and Geophysics (GG-G1)                 | 48.7 | 43.8 | 32.4 |
| Geology and Geophysics (GG-G2)                 | 54.8 | 49.3 | 36.5 |



| Instrumentation Engineering (IN)               | 42.4 | 38.1 | 28.2 |
|--|------|------|------|
| Mathematics (MA)                               | 27.3 | 24.5 | 18.2 |
| Mechanical Engineering (ME)                    | 28.1 | 25.2 | 18.7 |
| Mining Engineering (MN)                        | 25.5 | 22.9 | 17   |
| Metallurgical Engineering (MT)                 | 46.2 | 41.5 | 30.8 |
| Naval Architecture and Marine Engineering (NM) | 27.8 | 25   | 18.5 |
| Petroleum Engineering (PE)                     | 37.8 | 34   | 25.1 |
| Physics (PH)                                   | 26.5 | 23.8 | 17.6 |
| Production & Industrial Engineering (PI)       | 43.7 | 39.3 | 29.1 |
| Statistics (ST)                                | 25   | 22.5 | 16.6 |
| Textile Engineering & Fiber Science (TF)       | 38.8 | 34.9 | 25.8 |
| Engineering Sciences (XE)                      | 40.3 | 36.2 | 26.8 |



| XH-C1              | 55.5 | 49.9 | 37   |
|--------------------|------|------|------|
| XH-C2              | 51.9 | 46.7 | 34.5 |
| XH-C3              | 53.1 | 47.7 | 34.5 |
| XH-C4              | 50.7 | 45.6 | 33.8 |
| XH-C5              | 62.1 | 55.8 | 41.4 |
| XH-C6              | 59.7 | 53.7 | 39.8 |
| Life Sciences (XL) | 33.9 | 30.5 | 22.5 |

### **GATE Exam Resources**

Here, we have provided the GATE Exam resources, which you can directly access by clicking on the links below:

#### **CLICK HERE**

# Why GATE Exam?

• The GATE Exam scores are also used by some renowned foreign universities, including Nanyang Technological University (Singapore), National University of Singapore (Singapore), Technical University of Munich (Germany), and Aachen



- University (Germany), etc. So, if you ever dream about studying abroad, here is your chance.
- The job opportunities for ME/M.Tech graduates are popular in the industry. But, this is when you pursue your ME/M.Tech Course from a renowned university or college, and for that, you need to clear GATE Exam.
- The GATE scorecard is also considered by the PSUs. So, get ready for these popular engineering-related jobs.
- This examination will allow you to sharpen your skills and polish your knowledge in your desired discipline. Explore the <u>Benefits of GATE Exam</u> to know more.

#### **About GATE Exam**

GATE exam is a national-level test organised for aspirants who want admission to Master's programmes or postgraduate engineering (ME/M.Tech) or analysis courses at top institutes in India such as IITs, NITs, IIITs, etc. This time, the exam is organised by IISc Bangalore. And it is expected to be conducted in the first and second week of February 2024.

#### **Qualifying Disciplines for GATE Exam**

As per the revised mechanism, GATE includes 29 disciplines or papers from 2024. Environmental Science and Engineering (ES) and Humanities and Social Science (XS) were two subjects introduced last year. And this year, two new subjects, Naval Architecture and Marine Engineering, and Geomatics Engineering, were added. So, the total number of papers increased to 29.

### **About GATE Registration**

The date for GATE online registration 2024 is not fixed. However, it is expected to commence tentatively by the 2nd week of September 2023. Eligible candidates can complete GATE registrations by enrolling at the GATE Online Application Processing System (GOAPS) gateway. The candidates in the 3rd year of their Bachelor's degree are also eligible for GATE registration, along with candidates who have completed their graduation.

# **GATE Exam Registration Fees**

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To access GATE Application Form, candidates are required to pay a registration fee as mentioned below:

| Category  | Normal Application<br>Fee | Late Application<br>Fee |
|---|---------------------------|-------------------------|
| Women   | INR 850                   | INR 1350                |
| SC/ ST/ PWD                                     | INR 850                   | INR 1350                |
| All Other Candidates                            | INR 1700                  | INR 2200                |
| International Students – Dubai and<br>Singapore | US\$ 200                  | US\$ 250                |
| Students From – Dhaka and<br>Kathmandu          | US\$ 100                  | US\$ 150                |

# **GATE Exam – Two Combination Paper**

GATE exam has come up with two paper combinations. So, those applicants who want to appear in two disciplines can choose their primary paper by default, and for the second choice of paper, they have to refer to the allowed combination decided by the authorities. Remember, for the GATE exam, students have to go with these combinations only. Combinations other than these are not preferable.

Candidates can refer to the GATE exam official website, and also can go through the table below to check the two combination papers:



| Code of the First (Primary) Paper | Codes of Papers<br>Allowed as<br>The Second Paper | Code of the First<br>(Primary)<br>Paper | Codes of Papers<br>Allowed as<br>The Second<br>Paper |
|-----------------------------------|---|---|--|
| AE                                | CE, ME, XE  | IN                                      | BM, EC, EE, ME                                       |
| AG                                | CE  | МА                                      | CS, PH, ST   |
| AR                                | CE, GE  | ME                                      | AE, IN, NM, PI, XE                                   |
| ВМ                                | BT, IN  | MN                                      | GE, GG, XE   |
| ВТ                                | BM, XL  | MT                                      | XE   |
| CE                                | AE, AG, AR, ES, GE, NM, XE                        | NM                                      | CE, ME   |
| СН                                | ES, PE, XE  | PE                                      | СН   |
| CS                                | EC, GE, MA, PH, ST                                | PH                                      | CS, EC, EE, MA, XE                                   |
| СУ                                | XE, XL  | PI                                      | ME, XE   |
| EC                                | CS, EE, IN, PH                                    | ST                                      | CS, MA, XH   |
| EE                                | EC, IN, PH  | TF                                      | XE   |
| ES                                | CE, CH, GE  | XE                                      | AE, CE, CH, CY, ME,<br>MT, PH, PI                    |
| EY                                | XL  | XH                                      | ST   |
| GE                                | AR, CE, CS, ES, GG                                | XL                                      | BT, CY, EY   |

#### Acelt



**PLEASE NOTE:** In any sudden circumstances, if some of the combinations are removed, then the fee paid towards the second paper will be refunded to the applicants. Also, keep in mind that the exam centre of a student for the second paper may be different in the same city.

Study Material -

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