

# GATE 2021

## 1. About GATE:

- **Graduate Aptitude Test in Engineering (GATE)** is a national examination based on the comprehensive understanding of various undergraduate subjects like engineering, technology, architecture, and postgraduate subjects like arts, science, and commerce.
- The **GATE** examination is conducted in many different cities across India and also in six cities outside India. In international centres, **GATE 2021** will only be conducted if the current COVID-19 situation eases and if travel and other restrictions are relaxed. Else **GATE-2021** in international centres will be cancelled.
- The **GATE** score would reflect the relative performance level of the candidate in a particular subject which is calculated based on the past several year's examination data.
- **GATE** is conducted jointly by the Indian Institute of Science (IISc) Bangalore and seven Indian Institutes of Technology (IITs) at Mumbai, Guwahati, Kanpur, Chennai, Kharagpur, and Roorkee on the behalf of National Coordination Board (NCB), Department of Higher Education, Ministry of Education (MoE), and the Government of India.
- Qualifying in the **GATE** exam is a mandatory requirement to seek admission, financial assistance, and other government scholarships for post-graduation programs (master's or doctoral) with the Ministry of Education.
- The **GATE** score is also used by some Public Sector Undertakings (PSUs) for recruitment and also by several universities in India and abroad for admissions.
- A **GATE** exam score is valid for **three years** starting from the date of the announcement of results.

## 2. Main highlights of GATE 2021:

- The dates of the examination are:
  - (a) 5th February, Friday
  - (b) 6th February, Saturday

- (c) 7th February, Sunday
- (d) 12th February, Friday
- (e) 13th February, Saturday
- (f) 14th February, Sunday

- There will be two sessions each day. One forenoon exam and one-afternoon exam.
- This exam will be a fully computer-based test (CBT).
- Two new subject papers are introduced which are:
  - (a) Environmental Science & Engineering
  - (b) Humanities & Social Sciences for Economics, English, Linguistics, Philosophy, Psychology, & Sociology.
- The total number of subject papers are 27.
- The syllabi of all the subject papers have been revised for **GATE** 2021.
- All the test papers in **GATE** 2021 will entirely be the objective type. The pattern of the questions will include:
  - (a) Multiple Choice Questions (MCQ)
  - (b) Multiple Select Questions (MSQ)
  - (c) Numerical Answer Type Questions (NAT)
- One or two subject papers are allowed. Two paper combinations should be chosen from the given list of the combination of papers. The final allotment of the two papers will still be subject to the availability of the dates and infrastructure.
- The eligibility criteria for **GATE** 2021 is relaxed. A candidate who is currently pursuing their 3rd or higher year of their undergraduate degree or has already completed any government-approved degree program in engineering, technology, architecture, science, commerce, or arts is eligible to appear for the **GATE** 2021 examination.
- There is no age limit to appear for the **GATE** 2021 examination.
- Covid-19 alternatives:
  - (a) Depending on the situation, the schedule of the **GATE** 2021 examination may change.
  - (b) When it comes to international travel restrictions, examinations at the international centres may be dropped.

3. The important dates of **GATE** 2021:

- **GATE** Online Application Processing System = GOAPS.

<u>Activity</u>	<u>Day</u>	<u>Date</u>
GOAPS website opens.	Friday	11th September 2020

Closing date of regular online registration portal.	Wednesday	7th October 2020
End of the extended period for online registration (additional fee of Rs. 500)	Wednesday	14th October 2020
Last date of intimation to the registered candidates after the first round of scrutiny by the zonal office.	Monday	26th October 2020
Re-opening of GOAPS portal for successfully registered candidates to change (one time) category, city, or exam paper. (Change of city is free but Rs. 500 for category and paper change).	Wednesday	28th October 2020
Last date to change category, city, or exam paper.	Friday	13th November 2020
Re-opening of GOAPS portal for the successfully registered candidates to make the final corrections (one time) in the application form. 1) Contact address, university name, or college degree. Nomenclature is free of cost. 2) Correction fees are Rs. 500 for name and date of birth.	Tuesday	17th November 2020
<b>Last date for correction(s) in the application form.</b>	<b>Monday</b>	<b>23rd November 2020</b>
Last and final chance for city correction in the application form.	Monday Tuesday	14th December 2020 15th December 2020
Availability of the Admit Card on the Online Application Portal (for downloading and printing).	Friday	8th January 2021
Miscellaneous Activities.	Friday Friday	5th February 2021 12th February 2021
<u>GATE 2021 Examination</u>  i) Forenoon - 9:30 AM to 12:30 PM  ii) Afternoon - 3:00 PM to 6:00 PM	Saturday  Sunday  Saturday  Sunday	6th February 2021 7th February 2021 13th February 2021 14th February 2021
Announcement of the results in the Online Application Portal.	Monday	22nd March 2021

- Miscellaneous activities consist of the following:
  - Conducting mock tests by zonal **GATE** IIT/IISc officials (not for candidates).
  - Briefing to the invigilators.
  - Scribes selection.

(iv) Preparation of the exam centre including sanitization and other activities (display posters, signboard, seating arrangements, etc.).

(v) Optional visit by the candidates to check the exam centre, etc.

4. **GATE 2021 Papers:**

• **GATE 2021 Subjects:**

1	Aerospace Engineering	AE
2	Agriculture Engineering	AG
3	Architecture & Planning	AR
4	Biomedical Engineering	BM
5	Biotechnology	BT
6	Civil Engineering	CE
7	Chemical Engineering	CH
8	Computer Science & Information Technology	CS
9	Chemistry	CY
10	Electronics & Communications Engineering	EC
11	Electrical Engineering	EE
12	Ecology & Evolution	EY
13	Geology & Geophysics	GG
14	Instrumentation Engineering	IN
15	Mathematics	MA
16	Mechanical Engineering	ME
17	Mining Engineering	MN
18	Metallurgical Engineering	MT
19	Petroleum Engineering	PE
20	Physics	PH
21	Production & Industrial Engineering	PI
22	Statistics	ST
23	Textile Engineering & Fibre Science	TF
24	Engineering Sciences	XE*

25	Life Sciences	XL***
26	Environmental Science & Engineering	ES
27	Humanities & Social Sciences	XH**

(i) "Environmental Science & Engineering (ES)" and "Humanities & Social Sciences (XH\*\*)" are the two new papers that have been introduced in **GATE 2021**.

- \*XE Paper Section:

<u>*XE Paper Sections</u>	<u>CO DE</u>
Engineering Mathematics (Compulsory) (15 marks)	A
<b>Any TWO optional sections</b>  <b>(2 x 35 = 70 marks)</b>	
Fluid Mechanics	B
Materials Science	C
Solid Mechanics	D
Thermodynamics	E
Polymer Science & Engineering	F
Food Technology	G
Atmospheric & Oceanic Sciences	H

- **\*\*XH Paper Section:**

<b>**XH Paper Sections</b>	<b>CODE</b>
Reasoning & Comprehension (Compulsory) (25 marks)	B1
Any ONE optional section (60 marks)	
Economics	C1
English	C2
Linguistics	C3
Philosophy	C4
Psychology	C5
Sociology	C6

- **\*\*\*XL Paper Section:**

<b>***XL Paper Sections</b>	<b>CODE</b>
Chemistry (Compulsory) (25 marks)	P
Any TWO optional sections (2 x 30 = 60 marks)	
Biochemistry	Q
Botany	R
Microbiology	S
Zoology	T
Food Technology	U

- **Marks:**

- Total marks in each paper = **100** marks.
- Common General Aptitude (GA) section for each paper = **15** marks and Main Paper = **85** marks.

- **Maximum TWO papers in GATE 2021:**

- A candidate can appear in either ONE or TWO subject papers. For candidates who choose two papers, the combination must be from the approved list of combinations and subject to the availability of the date and infrastructure.

<u>Code of the First Paper</u>	<u>Codes of Papers Allowed as the Second Paper</u>
AE	XE
AG	ES
AR	CE
BM	BT XL
BT	BM XL
CE	AR ES
CH	CY PE XE
CS	MA
CY	CH XL
EC	IN PH
EE	IN

ES	AG CE
EY	XL
GG	MN PE PH
IN	EC EE PH
MA	CS PH ST
ME	XE
MN	GG XE
MT	PH XE
PE	CH GG XE



PH	EC GG IN MA MT ST
PI	XE
ST	MA PH
TF	XE
XE	AE CH ME MN MT PE PI TF
XH	----
XL	BM

	BT
	CY
	EY

- (i) Candidates who are choosing to appear in TWO subject papers must have a primary choice of paper, which will be their default choice, and the second choice of paper, which has to be chosen from the allowed combinations.
- (ii) **GATE** 2021 will not be responsible for the wrong choices of either primary paper, second paper, or both papers. For a change of paper, the candidate has to request for the change by paying its appropriate fee.

5. **GATE Exam Information:**

- **A pattern of Examination:**

<b><u>Particulars</u></b>	<b><u>Details</u></b>
Examination Mode	Computer Based Test (CBT)
Duration	3 Hours
Number of Subjects (Papers)	27
Sections	General Aptitude (GA) + Candidate's Selected Subject
Type of Questions	i) Multiple Choice Questions (MCQ) ii) Multiple Select Questions (MSQ) iii) Numerical Answer Type Questions (NAT)
Questions for testing these abilities	i) Recall ii) Comprehension iii) Application iv) Analysis & Synthesis
Number of Questions	10 (GA) + 55 (subject) = 65 Questions
Distribution of marks in all papers except these papers: i) AR ii) CY iii) EY iv) GG v) MA	General Aptitude: 15 marks + Engineering Mathematics: 13 marks + Subject Questions: 72 marks = 100 marks

vi) PH vii) XH viii)XL	
Distribution of marks in papers: i) AR ii) CY iii) EY iv) GG v) MA vi) PH vii) XH viii)XL	General Aptitude: 15 marks + Subject Questions: 85 marks = 100 marks
Marking Scheme	All of the questions will either be <b>one</b> mark or <b>two</b> marks.
Negative Marking	<p>i) <u>NAT Questions</u>: There is no provision of negative marking.</p> <p>ii) <u>MCQ Questions</u>: (a) For the questions that carry 1 mark each, 1/3 marks will be deducted if an incorrect response is made. (b) For the questions that carry 2 marks each, 2/3 marks will be deducted if an incorrect response is made.</p>

- Detailed Marking Scheme:

<u>Paper Code</u>	<u>GA Marks</u>	<u>Subject Marks</u>	<u>Total Marks</u>	<u>Total Time (Minutes)</u>
AE AR AG BT CE CH CS CY	15	85	100	180

EC EE ES EY IN MA ME MN MT PE PH PI TF ST BM				
GG [Part A + Part B (Section 1 Geology or Section 2 Geophysics)]	15	25 + 60	100	180
XE (Section A + any TWO Sections)	15	15 + (2 x 35)	100	180
XH (Section B1 + any ONE Section)	15	25 + (1 x 60)	100	180
XL (Section P + any TWO Sections)	15	25 + (2 x 30)	100	180

6. The documents that are required to fill the Online Application Form:

- Personal information like:
  - (i) Name
  - (ii) Date of Birth
  - (iii) Personal Mobile Number
  - (iv) Parents' Names
  - (v) Parents' Mobile Numbers

- Please note that the name of the candidate in the application form must be the same as it is in the valid photo ID, that the candidate must be producing, in original, while appearing for the **GATE** 2021 examination.
  - The **GATE** 2021 scorecard will be issued as per the name entered in the application form.
  - A prefix should not be used in front of the name. (Ex. Mr, Shri, Dr, Smt, Capt, etc.)
- Address for Communication with PIN code.
  - Eligibility degree details.
  - College name and address with PIN code.
  - **GATE** Paper(s) (subject)
  - Four choices of **GATE** examination cities.
  - A high-quality image of the candidate's photograph conforming to the specified requirements.
  - Good quality image of candidate's signature conforming to the specified requirements.
  - Scanned copy of category (SC/ST) certificate (if applicable) in the PDF format.
  - Scanned copy of the PwD certificate (if applicable) in PDF format.
  - Scanned copy of the certificate of dyslexia (if applicable) in PDF format.
  - Scanned copy of the valid photo identity (ID). (The same ID must be carried to the examination centre)
  - Net-banking, debit card, credit card, or UPI details for the fee payment.

#### 7. Fee Payment:

- Details of Application Fee for **GATE** 2021 (per subject paper):

<u>For Examination Centres in India</u>	<u>Regular Period (14th - 30th September 2020) (Rupees)</u>	<u>Extended Period (1st - 7th October 2020) (Rupees)</u>
Female Candidates (per paper)	750	1250
i) SC ii) ST iii) PwD Category Candidates	750	1250
All other Candidates (per paper)	1500	2000

- Fee charges for changes and/or modifications (one-time only) in **GATE** 2021 application (from 28th October to 13th November 2020):

<u>S.No</u>	<u>Description of Changes or Modifications</u>	<u>Fee Charges (Rupees)</u>
1	Change in choice of examination cities.	0

2	Change of existing paper.	500
3	Add a second paper (from the given combinations concerning the primary paper).	500 + suitable amount per paper for the candidate's category.
4	Change of gender to female.	500
5	Change of gender from female to any other gender.	500 + 750 = 1250
6	Change of category to SC/ST	500
7	Change of category from SC/ST to any other.	500 + 750 = 1250
8	Change from non-PwD to PwD	500
9	Change from PwD to non-PwD	500 + 750 = 1250
10	Any other change in category. (Not mentioned above)	500

8. List of Examination Cities:

- Tentative list of examination cities:

<u>Zone Number</u>	<u>Zonal GATE Office</u>	<u>Tentative List of Examination Cities</u>
1	Chairperson, GATE, IISc Bangalore, Bengaluru - 560 012 <a href="http://gate.iisc.ac.in">http://gate.iisc.ac.in</a>	i) Ananthapuramu (AP) ii) Angamaly (KL) iii) Bagalkot (KA) iv) Belagavi (Belgaum) (KA) v) Ballari (Bellary) (KA) vi) Bengaluru South (KA) vii) Bengaluru North (KA) viii) Bidar (KA) ix) Chikkamagaluru (KA) x) Davanagere (KA)

		xi) Hasaan (KA) xii) Hubballi (Hubli) (KA) xiii) Hyderabad (TS) xiv) Kalaburagi (Gulbarga) (KA) xv) Kannur (KL) xvi) Kasaragod (KL) xvii) Kolar (KA) xviii) Kozhikode (KL) xix) Kurnool (AP) xx) Malappuram (KL) xxi) Mangaluru (KA) xxii) Manipal (KA) xxiii) Mysuru (Mysore) (KA) xxiv) Palakkad (KL) xxv) Payyanur (KL) xxvi) Port Blair (AN) xxvii) Shivamogga (Shimoga)(KA) xxviii) Thrissur (KL) xxix) Tumakuru (KA) xxx) Vatakara (KL)
2	Chairperson, GATE, IIT Bombay, Powai, Mumbai - 400 076 <a href="https://gate.iitb.ac.in">https://gate.iitb.ac.in</a>	i) Ahmedabad (GJ) ii) Ahmednagar (MH) iii) Akola (MH) iv) Amravati (MH) v) Anand (GJ) vi) Aurangabad (MH) vii) Baramati (MH) viii) Bhavnagar (GJ) ix) Bhuj (GJ) x) Chandrapur (MH) xi) Dhule (MH) xii) Gandhinagar (GJ) xiii) Goa (GA) xiv) Himatnagar (GJ) xv) Ichalkaranji (MH) xvi) Jalgaon (MH) xvii) Kolhapur (MH) xviii) Latur (MH) xix) Mehsana (GJ) xx) Mumbai-Navi xxi) Mumbai-Thane (MH) xxii) Nagpur (MH) xxiii) Nanded (MH) xxiv) Nashik (MH) xxv) Palghar (MH) xxvi) Pune (MH) xxvii) Raigad (MH) xxviii) Rajkot (GJ)

		xxix) Ratnagiri (MH) xxx) Sangamner-Loni-Shirdi (MH) xxxi) Sangli (MH) xxxii) Satara (MH) xxxiii) Solapur (MH) xxxiv) Surat (GJ) xxxv) Vadodara (GJ)
3	Chairperson, GATE, IIT Delhi, Hauz Khas, New Delhi - 110 016 <a href="http://gate.iitd.ac.in">http://gate.iitd.ac.in</a>	i) Ajmer (RJ) ii) Alwar (RJ) iii) Bikaner (RJ) iv) Faridabad (HR) v) Greater NOIDA (UP) vi) Gurugram (HR) vii) Hisar (HR) viii) Indore (MP) ix) Jaipur (RJ) x) Jammu-Samba (JK) xi) Jodhpur (RJ) xii) Kota (RJ) xiii) Mathura (UP) xiv) New Delhi (DL) xv) Rohtak (HR) xvi) Sikar (RJ) xvii) Sonapat (HR) xviii) Srinagar (JK) xix) Udaipur (RJ) xx) Ujjain (MP)
4	<b>Chairperson,  GATE,  IIT Guwahati  Guwahati -  781 039</b> <a href="http://iitg.ac.in/gate-jam">http://iitg.ac.in/gate-jam</a>	i) Agartala (TR) ii) Aizawl (MZ) iii) Asansol-Durgapur (WB) iv) Bokaro Steel City (JH) v) Burdwan (WB) vi) Dhanbad (JH) vii) Dibrugarh (AS) viii) Dimapur-Kohima (NL) ix) Gangtok (SK) x) Guwahati (AS) xi) Imphal (MN) xii) Itanagar (AR) xiii) Jorhat (AS) xiv) Kalyani (WB) xv) Muzaffarpur (BR) xvi) Patna (BR) xvii) Purnea (BR) xviii) Shillong (ML) xix) Silchar (AS) xx) Siliguri (WB)



		xxi) Tezpur (AS)
5	Chairperson, GATE, IIT Kanpur Kanpur - 208 016 <a href="http://gate.iitk.ac.in">http://gate.iitk.ac.in</a>	i) Agra (UP) ii) Aligarh (UP) iii) Allahabad (UP) iv) Bareilly (UP) v) Bhopal (MP) vi) Gorakhpur (UP) vii) Gwalior (MP) viii) Jabalpur (MP) ix) Jhansi (UP) x) Kanpur (UP) xi) Lucknow (UP) xii) Varanasi (UP)
6	Chairperson, GATE, IIT Kharagpur Kharagpur - 721 302 <a href="http://gate.iitkgp.ac.in">http://gate.iitkgp.ac.in</a>	i) Baharampur-Murshidabad (WB) ii) Balasore (OR) iii) Berhampur (Odisha) (OR) iv) Bhilai (CH) v) Bhubaneswar (OR) vi) Bilaspur (CG) (CH) vii) Cuttack (OR) viii) Dhenkanal (OR) ix) Eluru (AP) x) Hazaribag (JH) xi) Hooghly (WB) xii) Jamshedpur (JH) xiii) Kakinada (AP) xiv) Kharagpur (WB) xv) Kolkata (WB) xvi) Machilipatnam (AP) xvii) Raipur (CH) xviii) Rajamahendravaram (Rajahmundry) (AP) xix) Ranchi (JH) xx) Rourkela (OR) xxi) Sambalpur (OR) xxii) Srikakulam (AP) xxiii) Tadepalligudem (AP) xxiv) Vijayawada (AP) xxv) Visakhapatnam (AP) xxvi) Vizianagaram (AP)
7	Chairperson, GATE, IIT Madras Chennai - 600 036 <a href="http://gate.iitm.ac.in">http://gate.iitm.ac.in</a>	i) Alappuzha (KL) ii) Aluva-Ernakulam (KL) iii) Attingal (KL) iv) Chengannur (KL) v) Chennai South (TN) vi) Chennai West (TN) vii) Chirala (AP)

		<ul style="list-style-type: none"> <li>viii)Chittoor (AP)</li> <li>ix) Coimbatore (TN)</li> <li>x) Cuddalore (TN)</li> <li>xi) Dindigul (TN)</li> <li>xii) Gudur (AP)</li> <li>xiii)Guntur (AP)</li> <li>xiv) Idukki (KL)</li> <li>xv) Kadapa (AP)</li> <li>xvi) Kanjirapally (KL)</li> <li>xvii) Kanyakumari-Nagercoil (TN)</li> <li>xviii) Karimnagar (TS)</li> <li>xix) Khammam (TS)</li> <li>xx) Kodad (TS)</li> <li>xxi) Kollam (KL)</li> <li>xxii) Kothamangalam (KL)</li> <li>xxiii) Kottayam (KL)</li> <li>xxiv) Madurai (TN)</li> <li>xxv) Muvattupuzha (KL)</li> <li>xxvi) Namakkal (TN)</li> <li>xxvii) Nellore (AP)</li> <li>xxviii) Ongole (AP)</li> <li>xxix) Puducherry (PY)</li> <li>xxx) Salem (TN)</li> <li>xxxi) Thanjavur (TN)</li> <li>xxxii) Thiruvananthapuram (KL)</li> <li>xxxiii) Thoothukudi (TN)</li> <li>xxxiv) Tiruchirapalli (TN)</li> <li>xxxv) Tirunelveli (TN)</li> <li>xxxvi) Tirupati (AP)</li> <li>xxxvii) Vellore (TN)</li> <li>xxxviii)Villupuram (TN)</li> <li>xxxix) Virudhunagar (TN)</li> <li>xl) Warangal (TS)</li> </ul>
8	<p>Chairperson, GATE, IIT Roorkee Roorkee - 247 667 <a href="https://www.iitr.ac.in/gate/">https://www.iitr.ac.in/gate/</a></p>	<ul style="list-style-type: none"> <li>i) Ambala (HR)</li> <li>ii) Amritsar (PB)</li> <li>iii) Bathinda (PB)</li> <li>iv) Dehradun (UK)</li> <li>v) Ghaziabad (UP)</li> <li>vi) Haldwani (UK)</li> <li>vii) Hamirpur-Una (HP)</li> <li>viii)Jalandhar (PB)</li> <li>ix) Kangra (HP)</li> <li>x) Karnal (HR)</li> <li>xi) Kurukshetra (HR)</li> <li>xii) Ludhiana (PB)</li> <li>xiii)Meerut (UP)</li> <li>xiv) Mohali-Chandigarh (PB)</li> </ul>

		xv) Moradabad (UP) xvi) Muzaffarnagar (UP) xvii) NOIDA (UP) xviii) Panipat (HR) xix) Pathankot (PB) xx) Patiala-Sangrur (PB) xxi) Roorkee (UK) xxii) Shimla-Solan (HP) xxiii) Yamunanagar (HR)
--	--	--

- **GATE** International will only continue if travel and other infrastructural issues are normalized by November 2020 from the Covid-19 pandemic. If not, **GATE** 2021 international centres will be cancelled.
- **GATE** 2021 international exams have been cancelled according to the committee's decision. (Updated on 29th November 2020)
- A candidate can choose four cities from the list of examination cities mentioned in the table. The first, second, and third choice must be from the same **GATE** zone and the fourth choice can be from any **GATE** zone.