

**CAREERS360**

*The Education Hub*

HOW TO PREPARE FOR  
**GATE 2016**  
IN 3 MONTHS



## Contents

Foreword	3
Introduction to GATE 2016	4
GATE 2016 – New Changes	5
GATE 2016 Important Dates	6
GATE 2016 Exam Schedule	7
GATE 2016 Exam Pattern	8
GATE 2016 Syllabus	13
Make a Time Table	14
Actual Study	15
GATE 2016 Sample Papers	16
Motivation	17
Relaxation	18
Tips from Toppers and Experts	19
Must Read	20
Topper Interviews	22
GATE 2016 Correspondence Program Premium	24
Complete GATE Online Test Series	25

## Foreword

**G**ATE 2016 will be held on January 30 & 31, 2016 as well as February 6 & 7, 2016. Barely 3 months are left for GATE 2016 exam –the largest online entrance exam for PG courses in Engineering. It is time to start serious preparation efforts in order to be successful in GATE 2016. Keeping this in mind, Careers360 brings forth the “How to Prepare for GATE 2016 In 3 Months” – an E-book exclusively for GATE 2016 aspirants.

Success is 10% inspiration and 90% perspiration as famously stated by Thomas Alva Edison.

It is a fact that the GATE 2016 Syllabus is very vast and only the seriously inclined, persistent as well as the most hard working candidates will persevere in success in GATE 2016. This book lists out the steps to be followed for successful GATE 2016 Preparation in 3 months.

*Wish you all the Best!*

*Team Careers360*



## Introduction to GATE 2016

**G**ATE (Graduate Aptitude Test in Engineering) is the All India examination that is used to screen the applicants from across the country for admissions to the various Post Graduate courses in Engineering in the IITs, IISc Bangalore, NITs, some CFTIs and many private institutes as well as many state universities.

GATE is an entrance test designed to test the comprehensive understanding of the various subjects in Engineering and Technology of the applicants. Candidates can apply to the PG courses like M.Tech/M.E/ Integrated courses like M.Tech-Phd and even M.Des at some IITs on the basis of their GATE 2015 scores. GATE qualified candidates are given preference over other candidates in many state conducted entrance exams.

Salient Points of GATE 2016:

- GATE 2016 will be organized by Indian Institute of Science, Bangalore supported in the operations at the zonal level by the seven IITs namely IIT Bombay, IIT Delhi, IIT Madras, IIT Kharagpur, IIT Kanpur, IIT Guwahati, and IIT Roorkee
- Admission to the IITs and IISc is based on the GATE scores.
- The GATE 2016 Application Form will be completely online. Candidates will have to upload the supporting documents as specified along with their photograph and signature.
- The Application Process will be through GOAPS (GATE Online Application Processing System)
- GATE 2016 will also be completely online and held in multiple sessions for those papers that have a large number of applicants.
- GATE 2016 Admit Card will have to be downloaded by candidates and will not be available to candidates through any other means.
- Biometric information (Photograph and Fingerprints) for randomly selected candidates may be captured before the start of the examination
- The Result will be available to candidates after logging while the GATE 2016 Score Card will also need to be downloaded within the given time frame by students.
- GATE 2016 Scores are valid for a period of three years
- An increasing number of PSUs are recruiting candidates on the basis of their GATE scores.



## GATE 2016 – New Changes

**S**ome new changes have been introduced in GATE 2016. Candidates must be aware of them before applying. They are listed as below

**New Paper:** GATE 2016 will see the introduction of a new paper- Petroleum Engineering raising the number of papers to 23.

**Use of Online Calculator:** Candidates will no longer be permitted to carry their own calculators to the exam hall. Instead Online Calculators will be provided within the exam in the system. To allow candidates to familiarize themselves with the Online Calculator, it will be made available shortly before the exam along with the mock test.

**Syllabus Revision:** The Syllabi of some papers has been revised. Candidates must check the GATE 2016 Syllabus for the respective paper before starting their preparation.

**Provision of the Answer Key:** The Answer Keys of the various GATE 2016 Question Papers will be made available to the candidates after the exam is completed. Candidates will also be given a chance to raise objections if any within a given period for a requisite amount of fee. The Final Answer Key will be published after the considerations of any such objections that are raised by students.



## GATE 2016 Important Dates

Event	Date
Start of Online Application through GOAPS	September 1, 2015
Last Date for Application	October 8, 2015
Last Date for Change of Exam Centre (City)	November 20, 2015
Download of Admit card	December 17, 2015
GATE 2016 Exam	January 30 & 31, 2016 February 6 & 7, 2016
GATE 2016 Result	March 19, 2016
Availability of GATE 2016 Score Card for Download	March 27 to May 29, 2016
GATE 2016 Score Card on payment of fee	May 30 to December 31, 2016



## GATE 2016 Exam Schedule

Session	Date	Time
1	January 30, 2016	9 am to 12 noon
2		2 pm to 5 pm
3	January 31, 2016	9 am to 12 noon
4		2 pm to 5 pm
5	February 6, 2016	9 am to 12 noon
6		2 pm to 5 pm
7	February 7, 2016	9 am to 12 noon
8		2 pm to 5 pm



## GATE 2016 Exam Pattern:

The GATE 2016 examination consists of a single paper of 3-hour duration that contains 65 questions carrying a maximum of 100 marks. The question paper will consist of both multiple choice questions (MCQ) and numerical answer type questions as given below

Multiple Choice Questions	Numerical Questions
<ul style="list-style-type: none"> <li>• These questions carry 1 or 2 marks each in all papers and sections.</li> <li>• They are objective in nature with a choice of four answers, out of which the candidate has to mark the correct answer(s).</li> </ul>	<ul style="list-style-type: none"> <li>• These questions carry 1 or 2 marks each in all papers and sections.</li> <li>• The answer for these questions is a real number</li> <li>• There will be no choices given for these questions</li> <li>• Candidates must key in the answer using the virtual keypad (The keyboard of the computer will be disabled).</li> </ul>
Marking Scheme	
<ul style="list-style-type: none"> <li>• There will be negative marking.</li> <li>• For 1-mark questions, 1/3 mark will be deducted for a wrong answer.</li> <li>• For 2-mark questions, 2/3 mark will be deducted for a wrong answer</li> </ul>	<ul style="list-style-type: none"> <li>• There is no negative marking for Numerical questions</li> </ul>

Types of Questions asked:

Note: Candidates will be provided with blank paper sheets for rough work and these have to be returned back after the examination.



### General Aptitude (GA) Questions:

- This is a mandatory section for all papers.
- The GA section includes 5 questions carrying 1 mark each (sub-total 5 marks) and 5 questions carrying 2 marks each (sub-total 10 marks).
- The GA questions carry a total of 15 marks

Sl.No	GATE 2016 Paper	Code	Exam Pattern
1	Aerospace Engineering	AE	The Engineering Mathematics section will carry around 15% of the total marks,
2	Agricultural Engineering	AG	The General Aptitude section will carry 15% of the total marks The remaining 70% percentage of the total marks is devoted to the subject of the paper. Except GG & XE all papers have: 1 Mark questions: 25 questions 2 Marks questions: 30 questions Total Questions are 55 and Total Marks 85
3	Biotechnology	BT	
4	Civil Engineering	CE	
5	Chemical Engineering	CH	
6	Computer Science and Information Technology	CS	
7	Electronics and Communication Engineering	EC	
8	Electrical Engineering	EE	
9	Instrumentation Engineering	IN	
10	Mechanical Engineering	ME	
11	Mining Engineering	MN	
12	Metallurgical Engineering	MT	
13	Petroleum Engineering	PE	
14	Production and Industrial Engineering	PI	
15	Textile Engineering and Fibre Science	TF	
16	Engineering Sciences	XE*	
17	Life Sciences	XL*	

Sl.No	GATE 2016 Paper	Code	Exam Pattern
18	Architecture and Planning	AR	General Aptitude section will carry 15% of the total marks and the remaining 85% of the total marks is devoted to the subject of the paper.
19	Chemistry	CY	
20	Ecology and Evolution	EY	
21	Geology and Geophysics:	GG*	In addition to General Ability, the Question Paper will have Part A common & compulsory for all candidates with 25 questions of 1 mark  Part B has Section 1 (Geology) and Section 2 (Geo-physics). Candidates can answer any one section 30 questions for 2 marks each
22	Mathematics	MA	
23	Physics	PH	
* All papers except GG, XE and XL have a common marking system			

## Explaining GATE 2016 XE and XL Papers

GATE 2016 Engineering Sciences XE Paper Sections	Section	GATE 2016 Question Pattern
Engineering Mathematics (Compulsory)	A	1 mark questions: 7 2 mark questions: 4 Total: 11 questions carrying a total of 15 marks
Candidates have to answer any two sections from below The choice of two sections from B to G can be made during the examination after viewing the questions. Only two optional sections can be answered at a time. A candidate wishing to change midway of the examination to another optional section must first choose to deselect one of the previously chosen optional sections (B to G).		
Fluid Mechanics	B	1 mark questions: 9 2 mark questions: 13 22 questions carrying a total of 35 marks
Materials Science	C	
Solid Mechanics	D	
Thermodynamics	E	
Polymer Science and Engineering	F	
Food Technology	G	

GATE 2016 Life Sciences XL Paper Sections	Code	GATE 2016 Question Pattern
Chemistry (Compulsory)	H	1 mark questions: 5 2 mark questions: 10 Total 15 questions for a total of 25 marks
Candidates have to answer any two sections from below The choice of two sections from I to M can be made during the examination after viewing the questions. Only two optional sections can be answered by the candidate. A candidate wishing to change midway of the examination to another optional section must first choose to deselect one of the previously chosen optional sections (I to M).		
Biochemistry	I	1 mark questions: 10 2 mark questions: 10 Total 20 questions for a total of 30 marks
Botany	J	
Microbiology	K	
Zoology	L	
Food Technology	M	

### Design of Questions in the GATE 2016 Paper:

The questions may be designed to test the following abilities:

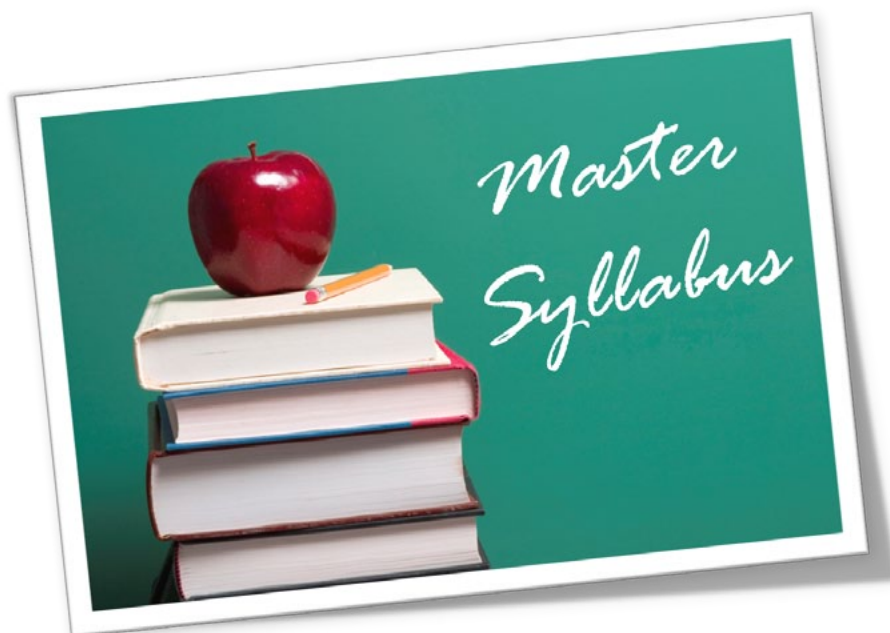
**(i) Recall:** These are based on facts, principles, formulae or laws of the discipline of the paper. The candidate is expected to be able to obtain the answer either from his/her memory of the subject or at most from a one-line computation.

**(ii) Comprehension:** These questions will test the candidate's understanding of the basics of his/her field, by requiring him/her to draw simple conclusions from fundamental ideas.

**(iii) Application:** In these questions, the candidate is expected to apply his/her knowledge either through computation or by logical reasoning.

**(iv) Analysis and Synthesis:** In these questions, the candidate is presented with data, diagrams, images etc. that require analysis before a question can be answered. A Synthesis question might require the candidate to compare two or more pieces of information. Questions in this category could, for example, involve candidates in recognising unstated assumptions, or separating useful information from irrelevant information

**Check the GATE 2016 Syllabus before starting your Preparation.**



## GATE 2016 Syllabus

To start off with, this is the most important step to be completed first. Candidates must check the GATE 2016 Syllabus thoroughly and segregate them into topics. Candidates who would be following books from the previous years must check for the changes in the GATE Syllabus.

Now for some tips for the GATE 2016 Syllabus: It is best to segregate the GATE 2016 Syllabus into topics and list them. Just listing the topics is not enough. Make a schedule against each topic and ensure that you meet the deadline seriously. It is important to be this dedicated as the time left for GATE 2016 preparation is less comparatively.

Here it is important to note that some emphasis must also be given to the General Aptitude and Mathematics sections. These are scoring and constitute 30 marks of the total paper which is a huge sum when it comes to improving the rank etc. Moreover these sections are not really that tough. They are designed to test the student's aptitude and understanding of general mathematical concepts as well as reasoning and logical aptitude.

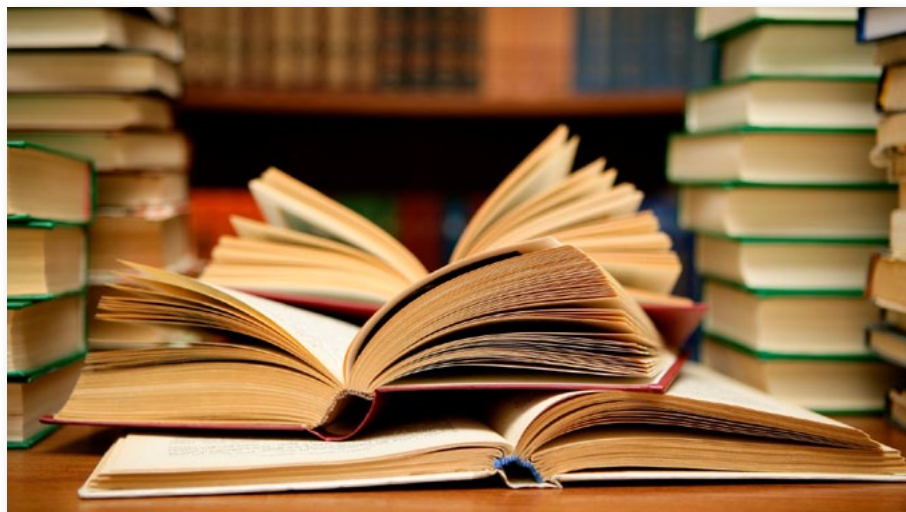


## Make a Time Table

**T**his exercise is for those candidates who adhere to strict schedules. For those candidates who are confident of completing their GATE 2016 Syllabus in their own way can study as convenient. The timetable is a means to keep the preparation on schedule and on track.

It is not enough to prepare a timetable. Candidates who will strictly adhere to the timetable will be able to profit from it. The timetable must incorporate not just the study topics but also practice tests, revision etc.

The timetable should be minutely planned down to the dot with a daily schedule in place and efforts should be to follow it to the tee. It should incorporate even the relaxation hours in addition to the study hours. The sample tests and practice tests should be placed such that they are done as soon as a topic is completed. It is absolutely necessary for analysis for your performance in each and every practice test.



## Actual Study

**I**t is important for the student to have a good grasp of the subject and concepts involved. You should be able to relate the concepts and deduce the answers – such is the level of understanding and learning involved in GATE preparation. An advice most toppers and experts give to make to short notes for revision while you study. This plays an important role in revision during the last days prior to the exam.

Another key area to focus on is the numerical part. The questions in this section are not really tough but involve meticulous calculations. This can only come through lots of practice. So you should ideally know the formulae to use in addition to speedy calculations down to the required decimal point.





## GATE 2016 Sample Papers

**P**ractise makes a man perfect – candidates must practice more and more till they get the concepts right. Every time a topic is completed, you should attempt a test to gauge your preparation. You should analyse your performance and if needed improve on your weak areas. This is a crucial exercise and needs to be done after each topic is covered. This will help you stay grounded in your preparation efforts.

It does not matter if you don't do well. This will be a common occurrence during the initial days. This is not to be taken as demotivation but to be used as a stepping stone to better preparation and performance.





## Motivation

This is a very important aspect for any student who wishes to appear for GATE. The syllabus is vast and study is time consuming. It requires a lot of effort, patience, and stamina to cope up with the preparation and be successful. More than anything it requires a single minded dedication to achieve success in GATE.

Keep motivating yourself with good inspirational quotes. Some students do well in group studies. So if that suits you, you should study with a group. If solo studies suit you then by all means go solo. You could read topper interviews, topper tips – there are many students who have tasted success in spite of all odds.



## Relaxation

This is also an important aspect to be worked into one's timetable. All work and no play made Jack a dull boy. It is important to relax at the appropriate time. After putting in a good day's work, you should ensure that the mind relaxes with any of the leisure activities that are soothing and beneficial like listening to music, meditation, going for walks etc. It is person dependent and therefore something that only you can decide and do.

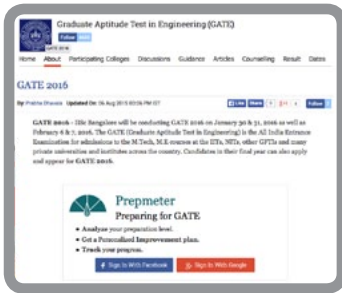




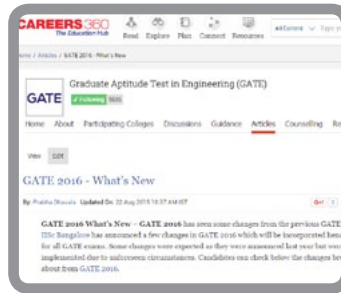
## Tips from Toppers and Experts

- A good understanding of the subject and its concepts is required. Rote learning is a strict no go.
- Solving sample papers and question papers from previous years' is a beneficial exercise. Helps segregate the more important topics to focus on in addition to allowing you to understand the GATE Paper Pattern.
- Most of the toppers have persevered in spite of all odds – be it a job, lack of time, lack of knowledge. It did not deter them from achieving their goals of success in GATE. If they can, so can you.
- Study, Analyse and revise- follow this religiously and you will be in a better position to tackle the GATE 2016 exam. This exercise helps keep you grounded and allows you to get strong in whatever you have learnt.
- Remember there is no short cut to success. Many students start with asking how many marks are needed to qualify; how many are required for a PSU call and so on. A very wrong approach. This kind of thinking is restrictive and doesn't allow you to progress to your full capacity. The sky is the limit and successful people are those who go that extra mile.

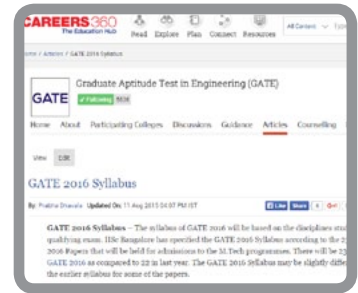
# Must Read



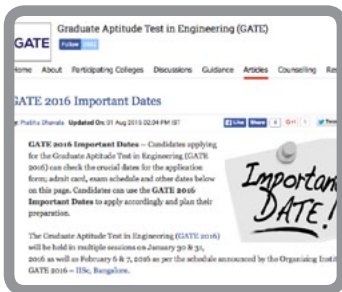
GATE 2016



What's New in GATE



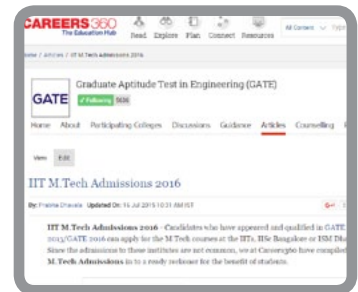
GATE 2016 Syllabus



GATE 2016 Important Dates



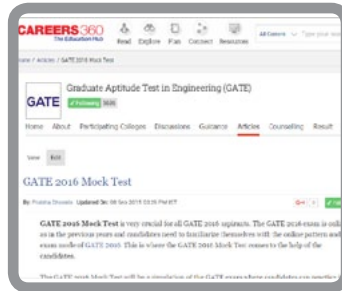
GATE 2016 Changes in Syllabus



IIT M.Tech Admissions 2016



**GATE 2016  
Sample Papers**



**GATE 2016 Mock Test**



**PSU Recruitment  
Through GATE 2016**



**GATE 2016  
Official Website**



**Follow us on Facebook for  
all the latest updates**

## Topper Interviews:

#Helpline No.: 011-40 360 360



**GATE 2015 Topper Interview**  
**Ravi Shankar Mishra**  
AIR 1  
Computer Science Engineering

Ravi Shankar Mishra GATE 2015 AIR 1 in  
Computer Science Engineering

#Helpline No.: 011-40 360 360



**GATE 2015 Topper Interview**  
**Pradeep Seervi**  
AIR 1 Electrical Engineering

Pradeep Seervi GATE 2015 AIR 1 GATE 2015  
Electrical Engineering

#Helpline No.: 011-40 360 360



**GATE 2015 Topper Interview**  
**Saurav Gupta**  
AIR 5 in Electronics and  
Communication Engineering

Saurav Gupta GATE 2015 AIR 5 in Electronics  
and Communication Engineering

**GATE 2015 Topper Interview**  
**Sharada Prasad Panda**  
(AIR 6 in Biotechnology)



Sharada Prasad Panda GATE 2015 AIR 6 in  
Biotechnology



Souradeep Sinha GATE 2015 AIR 9 in  
Chemical Engineering



Suhit Sinha GATE 2015 AIR 10 in  
Computer Science Engineering



Aditya Narayan Nanda GATE 2015 AIR 10 in  
Instrumentation Engineering

The screenshot shows the product page for 'GATE 2016 Correspondence Program Premium' on the myCAREERS360 website. The page features a navigation bar with 'SEE ALL CATEGORIES', 'REQUEST A CALLBACK', and '011 - 40 360 360'. The product title is 'GATE 2016 Correspondence Program Premium' with a '100% Purchase Protection' badge. Below the title are social sharing options (Write A Review, Add to My Wishlist, Request a callback) and a Like/Share button. The product details include: Category: GATE, Brand: The GATE Academy, Product Mode: Online + Print + Educational Devices, Type: Study Material, Language: English, and Non-Cancellable Product. The valid till date is 28-02-2016. The MRP is ₹11950 and the availability is 'Available'. The delivery is 'Standard Delivery: Delivered in 7 business days'. A 'BUY NOW' button is prominently displayed at the bottom.

## GATE 2016 Correspondence Program Premium

A Complete GATE Preparation Package for your success in GATE

### Highlights of the Package:

- ⇒ Study Material Package:
- ⇒ Quick Refresher Guide
- ⇒ E-Lectures
- ⇒ All India Mock Tests
- ⇒ Full Length Test
- ⇒ Sectional Tests
- ⇒ Subject Wise Tests
- ⇒ Post GATE Guidance information





The screenshot shows the product page for 'Complete GATE Online Test Series' on the myCAREERS360 website. The page includes a navigation bar with 'SEE ALL CATEGORIES', 'REQUEST A CALLBACK', and a phone number '011 - 40 360 360'. The breadcrumb trail is 'Home > Engineering > Test Preparation > GATE/IES > Complete GATE Online Test Series'. The product card features a green banner with 'TCYonline' and 'GATE Test Series'. Below the banner, it lists '100% Purchase Protection', 'Write A Review', 'Add to My Wishlist', and 'Request a callback'. The product details include: Category: GATE/IES, Brand: TCYonline, Product Mode: Online, Type: Test Preparation, Language: English, and Valid Till: 28-02-2016. A price table shows MRP ₹ 1500, Offer Price ₹ 500, and You Save ₹ 1000 (67% Off). The availability is 'Available' and standard delivery is 'Delivered within 48 business hours'.

## Complete GATE Online Test Series

### Highlights of the Package

- ⊖ 50+ Test papers.
- ⊖ Previous 4 years' papers.
- ⊖ 40+ Engg Mathematics Tests.
- ⊖ 08 Mock Tests.