



# GATE 2018 ONLINE TEST SERIES

*Complete with best...*

- ◆ Our proficient faculties have done extensive research to prepare and shape these test series.
- ◆ An opportunity for students to come across their strengths and weaknesses and work on them properly to turn the things around.
- ◆ Care has been taken to ensure that the quality of questions has the same level of difficulty as is there in the GATE.

## GATE 2018 ONLINE TEST SERIES

### Highlights :

- There are 20 subject-wise tests, 10 full length tests and 20 topic wise tests.
- Each Test is available for 15th Feb. 2018 This gives the flexibility to students to appear in the tests any time & from anywhere based on their level of preparation. However, the relative score will be given to those students only who access online tests before their expiry period.
- The individual results will be available immediately after the test.
- Students can check their relative performance question wise also i.e. for a particular questions how many students were able to correct that question and how many failed etc.
- Best question bank for complete preparation.
- AIR and comparison with All India GATE 2018 aspirant.
- Electronic Gadget such as virtual keyboard and virtual calculator available.

### Special Features :

- In every test students will come across two levels that is basic level and advance level tests, which will help the students to prepare the subjects thoroughly.
- Discount available for meritorious students and Previous Batch GATE ACADEMY students.



# Online Test Series Schedule for GATE 2018

## BRANCH : CIVIL ENGINEERING

### Topic-wise Tests

(Each test carries 30 marks and 60 minutes duration.)

Test consists of 10 one mark questions and 10 two marks questions.)

| Topic   | Subject                      | Date (Available from - To)                        |
|---|------------------------------|---|
| Properties of Metals, Stress and Strain; Shear Force and Bending Moment Diagram, Principal Stress and Strain and mohr circle, theories of failure | <b>Strength of Materials</b> | 10-05-2017 to<br>2 <sup>nd</sup> week of February |
| Bending and Shear Stresses, Deflection of Beams, Torsion of Shafts, Theory of Columns & Shear Centre  |                              |   |

| Topic  | Subject                          | Date (Available from - To)                        |
|--|----------------------------------|---|
| Water Demand, Quality Control of Water Supplies, Water Treatment, Air and Sound Pollution    | <b>Environmental Engineering</b> | 10-05-2017 to<br>2 <sup>nd</sup> week of February |
| Design and Characteristics of Sewage, Desposing of the Sewage Effluents, Treatment of Sewage |                                  |   |

| Topic   | Subject                         | Date (Available from - To)                        |
|---|---------------------------------|---|
| Properties of soils, Classification of Soils, Effective Stress and Permeability, Well Hydraulics, Consolidation of Soils, Seepage Analysis, Compaction of Soil, Stress Distribution in the Soil,  | <b>Geotechnical Engineering</b> | 10-05-2017 to<br>2 <sup>nd</sup> week of February |
| Shear Strength of Soil, Retaining Wall / Earth Pressure Theories, Stability Analysis of Slopes, Shallow Foundation and Bearing Capacity, Deep Foundation, Soil Stabilization and soil Exploration |                                 |   |

| Topic  | Subject                    | Date (Available from - To)                        |
|--|----------------------------|---|
| Determinacy and Indeterminacy, Trusses, Influence Line Diagram and Rolling Loads, Arches,                            | <b>Structural Analysis</b> | 10-05-2017 to<br>2 <sup>nd</sup> week of February |
| Methods of Structural Analysis (moment distribution method, strain energy etc.) Matrix Method of Structural Analysis |                            |   |

| Topic   | Subject                           | Date (Available from - To)                        |
|---|-----------------------------------|---|
| Structural Fasteners, Tension Member, Compression Member    | <b>Design of Steel Structures</b> | 10-05-2017 to<br>2 <sup>nd</sup> week of February |
| Beams, Plate Girders and Industrial Roofs, Plastic Analysis |                                   |   |

| Topic   | Subject           | Date (Available from - To)                        |
|---|-------------------|---|
| Duty, delta, Crop water requirements, Design of lined and unlined canals, head works, gravity dams and spillways, Design of weirs on permeable foundation, Types of irrigation systems, irrigation methods, Water logging and drainage, Canal regulatory works, cross-drainage structures, outlets and escapes                              | <b>Irrigation</b> | 10-05-2017 to<br>2 <sup>nd</sup> week of February |
| Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, flood estimation and routing, reservoir capacity, reservoir and channel routing, surface run-off models, ground water hydrology - steady state well hydraulics and aquifers, Application of Darcy's law. | <b>Hydrology</b>  |   |

| Topic  | Subject         | Date (Available from - To)                     |
|--|-----------------|--|
| Fluid properties, Fluid Statics, Manometry, Buoyancy, Bending and Shear Stresses, Differential Equations of Continuity, Fluid Acceleration, Control-Volume Analysis of Mass, Momentum and Energy, Bernoulli's Equation, viscous flow of Incompressible Fluids, Boundary Layer, Elementary Turbulent Flow, Flow Through Pipes, Head losses in Pipes, Bends, | Fluid Mechanics | 10-05-2017 to 2 <sup>nd</sup> week of February |
| Impact of Jets and Turbines, Hydraulic Pumps, Open channel flow  |                 |  |

| Topic   | Subject                    | Date (Available from - To)                     |
|---|----------------------------|--|
| Highway Geometric Design and Planning, Highway Materials, Geometric Design of Railway Track, Airport Runway length, Taxiway and Exit Taxiway Design | Transportation Engineering | 10-05-2017 to 2 <sup>nd</sup> week of February |
| Traffic Engineering, Pavement Design, Highway maintenance   |                            |  |

| Topic  | Subject                                 | Date (Available from - To)                     |
|--|---|--|
| IS 456 : 2000, Working Stress method, Limited State Method, Shear, Torsion, Bond, Anchorage & Development Length | RCC Structures and Prestressed Concrete | 10-05-2017 to 2 <sup>nd</sup> week of February |
| Footing, Columns, Beams and Slabs, Prestressed Concrete  |   |  |

| Topic  | Subject   | Date (Available from - To)                     |
|--|-----------|--|
| Fundamental Concepts of Surveying, Theodolites, Compass and Traverse Surveying, Levelling and Contouring   | Surveying | 10-05-2017 to 2 <sup>nd</sup> week of February |
| Tacheometric, Hydrographic Surveying, Triangulation Survey total station, Curves, photogrammetry, Geographical information system (GIS) and Geographical Positioning System (GPS) & Remote Sensing |           |  |

| Topic  | Subject               | Date (Available from - To)                     |
|--|-----------------------|--|
| System of forces, free-body diagrams, equilibrium equations, Internal forces in structures, Friction and its applications, Kinematics of point mass and rigid body, Centre of mass, Euler's equations of motion, Impulse-momentum, Energy methods, Principles of virtual work, | Engineering Mechanics | 10-05-2017 to 2 <sup>nd</sup> week of February |

| Topic   | Subject                            | Date (Available from - To)                     |
|---|------------------------------------|--|
| <b>Construction Materials</b> : Structural steel, Concrete, Bricks, Mortar, Timber and Bitumen.<br><b>Construction Management</b> : Types of construction project, Tendering and Construction contract, Rate analysis and standard specification, Cost estimation, Project planning and Network analysis PERT and CPM | Construction Material & Management | 10-05-2017 to 2 <sup>nd</sup> week of February |

| Topic  | Subject     | Date (Available From - To)                     |
|--|-------------|--|
| Linear Algebra, Differential Equation, Limits and Series expansion, Probability, Numerical methods.                | Mathematics | 10-05-2017 to 2 <sup>nd</sup> week of February |
| Differential Calculus, Integral Calculus, Vector Calculus, Mean Value Theorem, Complex Variable, Maxima and Minima |             | 10-05-2017 to 2 <sup>nd</sup> week of February |

| Topic                 | Subject          | Date (Available From - To)                     |
|-----------------------|------------------|--|
| Quantitative Aptitude | General Aptitude | 10-05-2017 to 2 <sup>nd</sup> week of February |
| Verbal Aptitude       |                  | 10-05-2017 to 2 <sup>nd</sup> week of February |

## Basic Subject-wise Tests

(Each test carries 50 marks and 90 minutes duration.  
Test consists of 10 one mark questions and 20 two marks questions)

| Subjects                                      | Date (Available from - To)                     |
|---|--|
| General Aptitude + General English            | 15-05-2017 to 2 <sup>nd</sup> week of February |
| Mathematics                                   | 15-05-2017 to 2 <sup>nd</sup> week of February |
| Geotechnical Engineering                      | 15-05-2017 to 2 <sup>nd</sup> week of February |
| Environmental Engineering                     | 17-05-2017 to 2 <sup>nd</sup> week of February |
| RCC Structures and Prestressed Concrete       | 19-05-2017 to 2 <sup>nd</sup> week of February |
| Structural Analysis & Engineering Mechanics   | 21-05-2017 to 2 <sup>nd</sup> week of February |
| Transportation Engineering                    | 23-05-2017 to 2 <sup>nd</sup> week of February |
| Fluid Mechanics                               | 25-05-2017 to 2 <sup>nd</sup> week of February |
| Strength of Materials                         | 27-05-2017 to 2 <sup>nd</sup> week of February |
| Design of Steel Structures                    | 29-05-2017 to 2 <sup>nd</sup> week of February |
| Surveying, Construction Material & Management | 01-05-2017 to 2 <sup>nd</sup> week of February |
| Irrigation Engineering & Hydrology            | 03-05-2017 to 2 <sup>nd</sup> week of February |

## Advance Subject-wise Tests

(Each test carries 50 marks and 90 minutes duration.  
Test consists of 10 one mark questions and 20 two marks questions)

| Subjects                                      | Date (Available from - To)                     |
|---|--|
| General Aptitude + General English            | 01-05-2017 to 2 <sup>nd</sup> week of February |
| Mathematics                                   | 03-05-2017 to 2 <sup>nd</sup> week of February |
| Geotechnical Engineering                      | 05-05-2017 to 2 <sup>nd</sup> week of February |
| Environmental Engineering                     | 07-05-2017 to 2 <sup>nd</sup> week of February |
| RCC Structures and Prestressed Concrete       | 10-05-2017 to 2 <sup>nd</sup> week of February |
| Structural Analysis & Engineering Mechanics   | 12-05-2017 to 2 <sup>nd</sup> week of February |
| Transportation Engineering                    | 15-05-2017 to 2 <sup>nd</sup> week of February |
| Fluid Mechanics                               | 18-05-2017 to 2 <sup>nd</sup> week of February |
| Strength of Materials                         | 21-05-2017 to 2 <sup>nd</sup> week of February |
| Design of Steel Structures                    | 23-05-2017 to 2 <sup>nd</sup> week of February |
| Surveying, Construction Material & Management | 25-05-2017 to 2 <sup>nd</sup> week of February |
| Irrigation Engineering & Hydrology            | 29-05-2017 to 2 <sup>nd</sup> week of February |

## Full Length Mock GATE (Tentative Schedule)

(Each test carries 100 marks and 3 hours duration as per GATE Pattern)

| Subjects     | Date (Available from - To)                     |
|--------------|--|
| Full Test 1  | 01-09-2017 to 2 <sup>nd</sup> week of February |
| Full Test 2  | 05-09-2017 to 2 <sup>nd</sup> week of February |
| Full Test 3  | 09-09-2017 to 2 <sup>nd</sup> week of February |
| Full Test 4  | 13-09-2017 to 2 <sup>nd</sup> week of February |
| Full Test 5  | 17-09-2017 to 2 <sup>nd</sup> week of February |
| Full Test 6  | 01-10-2017 to 2 <sup>nd</sup> week of February |
| Full Test 7  | 17-10-2017 to 2 <sup>nd</sup> week of February |
| Full Test 8  | 24-10-2017 to 2 <sup>nd</sup> week of February |
| Full Test 9  | 01-11-2017 to 2 <sup>nd</sup> week of February |
| Full Test 10 | 12-11-2017 to 2 <sup>nd</sup> week of February |

## Finally... How to get registered for Test Series ?

| Step - I  | Step - II  |
|---|--|
| Visit<br><a href="http://www.onlinetestseries.gateacademy.co.in">www.onlinetestseries.gateacademy.co.in</a><br>Click on New Registration<br>Fill the Form<br>You will be Redirected to the Test Portal<br>Click on buy Package<br>Make Payment using Coupon code<br>(For gate academy student)<br>or by online payment. | Send completely filled registration form to our office<br>(for gate academy student) |

### COMPLETE TEST PACKAGE

|                                  |        |
|----------------------------------|--------|
| Gate Academy Students            | 300/-  |
| Other than Gate Academy Students | 1000/- |
| Ex. Gate Academy Students        | 500/-  |

### ONLY SUBJECT WISE

|                                  |       |
|----------------------------------|-------|
| Other than Gate Academy Students | 500/- |
|----------------------------------|-------|

### ONLY TOPIC WISE

|                                  |       |
|----------------------------------|-------|
| Other than Gate Academy Students | 500/- |
|----------------------------------|-------|

### ONLY FULL LENGTH MOCK

|                                  |       |
|----------------------------------|-------|
| Other than Gate Academy Students | 500/- |
|----------------------------------|-------|

### SUBJECT WISE + TOPIC WISE

|                                  |       |
|----------------------------------|-------|
| Other than Gate Academy Students | 700/- |
|----------------------------------|-------|

### SUBJECT WISE + FULL LENGTH MOCK

|                                  |       |
|----------------------------------|-------|
| Other than Gate Academy Students | 700/- |
|----------------------------------|-------|



# **GATE ACADEMY**<sup>®</sup>

*steps to success....*

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