ACE Engineering Academy
Leading Institute for ESE/GATE/PSUs
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GATE-2027

Online Test Series

Civil Engineering Schedule

No.of Tests : 54 + 54 *free* practice tests of GATE-2026 Online Test Series		
	GATE - 2027 Test Series	Practice Tests GATE - 2026 OTS
Topic wise Tests	24	24
Grand Tests (Subject Wise Tests + Multi-Subject Wise Tests)	18	18
Full Length Mock Tests	12	12
Total Tests - 108		

Note:

★ The syllabus followed is based on the previous notification of GATE. ACE Engineering Academy will not be responsible for any deviations in the syllabus in the final GATE-2027 examination.

★ The dates of the tests may change depending on the official GATE-2027 examination schedule.

★ All tests will be activated at 6:00 PM on the scheduled date.

★ All tests will remain active until the GATE-2027 examination.

Topic wise Tests

(No.of Questions: 15, Time duration: 42 Minutes and Marks: 25 M)

Test No	Name of the Test	Date of Activation
Test-01	**Engineering Mathematics-1:** Linear Algebra: Matrix algebra; Systems of linear equations; Eigen values and Eigen vectors. Calculus: Functions of single variable; Limit, continuity and differentiability; Mean value theorems, local maxima and minima; Taylor series; Evaluation of definite and indefinite integrals, application of definite integral to obtain area and volume; Partial derivatives; Total derivative; Gradient, Divergence and Curl, Vector identities; Directional derivatives; Line, Surface and Volume integrals. Fourier series.	13-04-2026
Test-02	**Engineering Mathematics-2:** Ordinary Differential Equation (ODE): First order (linear and non-linear) equations; higher order linear equations with constant coefficients; Euler-Cauchy equations; initial and boundary value problems. Partial Differential Equation (PDE): separation of variables; solutions of one- dimensional diffusion equation; first and second order one-dimensional wave equation and two-dimensional Laplace equation. Probability and Statistics: Sampling theorems; Conditional probability; Descriptive statistics - Mean, median, mode and standard deviation; Random Variables – Discrete and Continuous, Poisson and Normal Distribution; Linear regression. Numerical Methods: Error analysis. Numerical solutions of linear and non-linear algebraic equations; Newton's and Lagrange polynomials; numerical differentiation; Integration by trapezoidal and Simpson's rule; Single and multi-step methods for first order differential equations.	
Test-03	**Geotechnical Engineering-1:** *Soil Mechanics:* Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability - one dimensional flow, Seepage through soils – two - dimensional flow, flow nets, uplift pressure, piping, capillarity, seepage force; Principle of effective stress and quicksand condition; Compaction of soils; One- dimensional consolidation, time rate of consolidation; Shear Strength, Mohr's circle, effective and total shear strength parameters, Stress-Strain characteristics of clays and sand; Stress paths.	21-04-2026
Test-04	**Geotechnical Engineering-2:** *Foundation Engineering:* Sub-surface investigations - Drilling bore holes, sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories - Rankine and Coulomb; Stability of slopes – Finite and infinite slopes, Bishop's method; Stress distribution in soils – Boussinesq's theory; Pressure bulbs, Shallow foundations – Terzaghi's and Meyerhoff's bearing capacity theories, effect of water table; Combined footing and raft foundation; Contact pressure; Settlement analysis in sands and clays; Deep foundations - dynamic and static formulae, Axial load capacity of piles in sands and clays, pile load test, pile under lateral loading, pile group efficiency, negative skin friction.	

Test No	Name of the Test	Date of Activation
Test-05	**Structural Analysis-1:** Statically determinate and indeterminate structures by force/ energy methods; Method of superposition; Analysis of trusses, Arches, cables.	28-04-2026
Test-06	**Structural Analysis-2** Analysis of Beams, and frames; Displacement methods: Slope deflection and moment distribution methods; Influence lines; Stiffness and flexibility methods of structural analysis.	
Test-07	**Concrete Structures:** Working stress and Limit state design concepts; Design of beams, slabs, columns; Bond and development length; Prestressed concrete beams.	
Test-08	**Steel Structures:** Working stress and Limit state design concepts; Design of tension and compression members, beams and beam- columns, column bases; Connections - simple and eccentric, beam-column connections, plate girders and trusses; Concept of plastic analysis - beams and frames.	
Test-09	**Solid Mechanics-1:** Simple stress and strain relationships, Complex Stresses and Strains, Bending moment and shear force in statically determinate beams; Deflections & Slopes, buckling of column, combined and direct bending stresses	05-05-2026
Test-10	**Solid Mechanics-2:** Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, Moment of Inertia.	
Test-11	**Fluid Mechanics:** Properties of fluids, fluid statics; Continuity, momentum and energy equations and their applications; Potential flow, Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth; Concept of lift and drag.	
Test-12	**Hydraulics:** Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, hydraulic jump, uniform flow, gradually varied flow and water surface profiles.	
Test-13	**Hydrology:** Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, flood estimation and routing, reservoir capacity, surface run-off models, ground water hydrology - steady state well hydraulics and aquifers; Application of Darcy's law.	12-05-2026
Test-14	**Irrigation:** Types of irrigation systems and methods; Crop water requirements - Duty, delta, evapo-transpiration; Gravity Dams and Spillways; Lined and unlined canals, Design of weirs on permeable foundation; cross drainage structures.	

Test No	Name of the Test	Date of Activation
Test-15	**Environmental Engineering-1:** *Water and Waste Water Quality and Treatment:* Basics of water quality standards – Physical, chemical and biological parameters; Water quality index; Unit processes and operations; Water requirement; Water distribution system; Drinking water treatment.	19-05-2026
Test-16	**Environmental Engineering-2:** *Water and Waste Water Quality and Treatment:* Sewerage system design, quantity of domestic wastewater, primary and secondary treatment. Effluent discharge standards; Sludge disposal; Reuse of treated sewage for different applications. *Air Pollution:* Types of pollutants, their sources and impacts, air pollution control, air quality standards, Air quality Index and limits. *Municipal Solid Wastes:* Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/ recycle, energy recovery, treatment and disposal).	
Test-17	**Transportation Engineering-1:** *Transportation Infrastructure:* Geometric design of highways - cross-sectional elements, sight distances, horizontal and vertical alignments. Geometric design of railway Track – Speed and Cant. Concept of airport runway length, calculations and corrections; taxiway and exit taxiway design. *Highway Pavements:* Highway materials - desirable properties and tests; Desirable properties of bituminous paving mixes;	26-05-2026
Test-18	**Transportation Engineering-2:** *Highway Pavements:* Design factors for flexible and rigid pavements; Design of flexible and rigid pavement using IRC codes. *Traffic Engineering:* Traffic studies on flow and speed, peak hour factor, accident study, statistical analysis of traffic data; Microscopic and macroscopic parameters of traffic flow, fundamental relationships; Traffic signs; Signal design by Webster's method; Types of intersections; Highway capacity.	
Test-19	**Geomatics Engineering:** Principles of surveying; Errors and their adjustment; Maps - scale, coordinate system; Distance and angle measurement - Levelling and trigonometric levelling; Traversing and triangulation survey; Total station; Horizontal and vertical curves. Photogrammetry and Remote Sensing - Scale, flying height; Basics of remote sensing and GIS.	02-06-2026
Test-20	**Engineering Mechanics:** System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Friction and its applications; Centre of mass; Free vibration of undamped SDOF system.	
Test-21	**Construction Materials and CPM** *Construction materials:* Structural steel - composition, material properties and behaviour; Concrete - constituents, mix design, short-term and long-term properties; *Construction Management:* Types of construction projects; Project planning and network analysis - PERT and CPM; Cost estimation	

Test No	Name of the Test	Date of Activation
Test-22	**Verbal Ability:** Basic English grammar: tenses, articles, adjectives, prepositions, conjunctions, verb-noun agreement, and other parts of speech. Basic vocabulary: words, idioms, and phrases in context. Reading and comprehension. Narrative sequencing.	09-06-2026
Test-23	**Quantitative Aptitude:** Data interpretation: data graphs (bar graphs, pie charts, and other graphs representing data), 2- and 3-dimensional plots, maps, and tables. Numerical computation and estimation: ratios, percentages, powers, exponents and logarithms, permutations and combinations, and series. Mensuration and geometry. Elementary statistics and probability.	
Test-24	**Analytical Aptitude:** Logic: deduction and induction, Analogy, Numerical relations and reasoning **Spatial Aptitude:** Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping Paper folding, cutting, and patterns in 2 and 3 dimensions	

Subject Wise Grand Tests *(No.of Questions: 30, Time duration: 83 Minutes and Marks: 50 M)*		
Test-25	Engineering Mathematics	16-06-2026
Test-26	Engineering Mechanics and Solid Mechanics	
Test-27	Environmental engineering	23-06-2026
Test-28	Structural Analysis	
Test-29	Concrete Structures & Steel Structures	30-06-2026
Test-30	Geotechnical Engineering	
Test-31	Hydrology & Irrigation	07-07-2026
Test-32	Fluid Mechanics and Hydraulics	
Test-33	Transportation Engineering	14-07-2026
Test-34	Geomatics Engineering	
Test-35	Construction Materials & CPM	21-07-2026
Test-36	General Aptitude	

Test No	Name of the Test	Date of Activation
Full Length Mock Test - 1st Series *(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)*		
Test-37	Full Length Mock Test-1	04-08-2026
Test-38	Full Length Mock Test-2	11-08-2026
Test-39	Full Length Mock Test-3	18-08-2026
Test-40	Full Length Mock Test-4	25-08-2026
Test-41	Full Length Mock Test-5	01-09-2026
Test-42	Full Length Mock Test-6	08-09-2026
Multi-Subject Wise Grand Tests *(No.of Questions: 30, Time duration: 83 Minutes and Marks: 50 M)*		
Test-43	Engineering Mechanics, Solid Mechanics and Structural Analysis	29-09-2026
Test-44	Geotechnical Engineering and Fluid Mechanics and Hydraulics	
Test-45	Construction Materials and CPM, Concrete Structures and Steel Structures	06-10-2026
Test-46	Hydrology, Irrigation and Environmental engineering	
Test-47	Transportation Engineering and Geomatics Engineering	13-10-2026
Test-48	Engineering Mathematics and General Aptitude	
Full Length Mock Test - 2nd Series *(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)*		
Test-49	Full Length Mock Test-7	27-10-2026
Test-50	Full Length Mock Test-8	03-11-2026
Test-51	Full Length Mock Test-9	10-11-2026
Test-52	Full Length Mock Test-10	17-11-2026
Test-53	Full Length Mock Test-11	29-12-2026
Test-54	Full Length Mock Test-12	05-01-2027

Free Practice Tests

Topic wise Tests

(No.of Questions: 15, Time duration: 42 Minutes and Marks: 25 M)

Test No	Name of the Test	Date of Activation
Test-01	**Engineering Mathematics-1:** Linear Algebra: Matrix algebra; Systems of linear equations; Eigen values and Eigen vectors. Calculus: Functions of single variable; Limit, continuity and differentiability; Mean value theorems, local maxima and minima; Taylor series; Evaluation of definite and indefinite integrals, application of definite integral to obtain area and volume; Partial derivatives; Total derivative; Gradient, Divergence and Curl, Vector identities; Directional derivatives; Line, Surface and Volume integrals. Fourier series.	25-03-2026
Test-02	**Engineering Mathematics-2:** Ordinary Differential Equation (ODE): First order (linear and non-linear) equations; higher order linear equations with constant coefficients; Euler-Cauchy equations; initial and boundary value problems. Partial Differential Equation (PDE): separation of variables; solutions of one- dimensional diffusion equation; first and second order one-dimensional wave equation and two-dimensional Laplace equation. Probability and Statistics: Sampling theorems; Conditional probability; Descriptive statistics - Mean, median, mode and standard deviation; Random Variables – Discrete and Continuous, Poisson and Normal Distribution; Linear regression. Numerical Methods: Error analysis. Numerical solutions of linear and non-linear algebraic equations; Newton's and Lagrange polynomials; numerical differentiation; Integration by trapezoidal and Simpson's rule; Single and multi-step methods for first order differential equations.	
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Full Length Mock Tests *(No.of Questions: 65, Time duration: 180 Minutes and Marks: 100 M)*		
Test-43	Full Length Mock Test-1	10-04-2026
Test-44	Full Length Mock Test-2	
Test-45	Full Length Mock Test-3	
Test-46	Full Length Mock Test-4	
Test-47	Full Length Mock Test-5	
Test-48	Full Length Mock Test-6	
Test-49	Full Length Mock Test-7	
Test-50	Full Length Mock Test-8	
Test-51	Full Length Mock Test-9	
Test-52	Full Length Mock Test-10	
Test-53	Full Length Mock Test-11	
Test-54	Full Length Mock Test-12	