ACE
Engineering Academy
(Leading institute for ESE/GATE/PSUs)
Since 1995

GATE - 2019
Online Test Series

ELECTRICAL ENGINEERING (EE)

No. of Tests : 64 + *Free* 24 Practice Tests of GATE - 2018 Online Test Series

	GATE - 19 Test Series	Practice Tests GATE - 18 Test Series
Topic wise Tests	22	-
Subject Wise / Multi Subject Grand Tests	30	12
Full Length Mock Tests	12	12

All tests will be available till GATE -2019 Examination.

TEST SERIES HIGHLIGHTS

★ All India Rank will be given for each test.

★ Test wise and overall statistics.

★ Comparison with toppers.

★ Question wise and test wise time analysis & comparison with toppers on time management.

Topic wise Tests

Each test carries 25 marks and 45 minutes duration

Test consists of 5 one mark questions and 10 two marks questions

Tests will be activated at 2:00 pm on scheduled day

Test No	Topic code	Topic	Date of Activation
EE-01	GEM–1 (Engineering Mathematics)	Linear Algebra, Calculus, Differential Equations.	02-05-2018
EE-02	GEM–2 (Engineering Mathematics)	Complex Variables, Numerical Methods, Probability and Statistics & Transfrom Theory.	
EE-03	GCS – 1 (Control systems)	Feedback principle, transfer function, Block diagrams and Signal flow graphs, Transient and Steady-state analysis of linear time invariant systems, Routh-Hurwitz, Root loci and Stability analysis	
EE-04	GCS – 2 (Control systems)	Mathematical modeling and representation of systems, and Nyquist criteria, Bode plots, Lag, Lead and Lead-Lag compensators; P, PI and PID controllers; State space model, State transition matrix.	
EE-05	GSS-1 (Signals & Systems)	Representation of continuous and discrete-time signals, Shifting and scaling operations, Linear Time Invariant and Causal systems, Fourier series representation of continuous periodic signals, Applications of Fourier Transform,	09-05-2018
EE-06	GSS – 2 (Signals & Systems)	Sampling theorem, Laplace Transform and z-Transform.	
EE-07	GAE-1 (Analog Electronics) GDE-1 (Digital Electronics)	**GAE-1 :** Characteristics of diodes, BJT, MOSFET; Simple diode circuits: clipping, clamping, rectifiers; Amplifiers: Biasing, Equivalent circuit and Frequency response **GDE-1:** Combinational and Sequential logic circuits, Multiplexer, Demultiplexer, Schmitt trigger	
EE-08	GAE-2 (Analog Electronics) GDE-2 (Digital Electronics)	**GAE-2:** Oscillators and Feedback amplifiers; Operational amplifiers: Characteristics and applications; Simple active filters, VCOs and Timers **GDE-2:** Sample and hold circuits, A/D and D/A converters, 8085 Microprocessor: Architecture, Programming and Interfacing.	
EE-09	GEC-1 (Electrical Circuits)	KCL, KVL, Node and Mesh analysis, Ideal current and voltage sources, Thevenin's theorem, Norton's theorem, Superposition theorem, Maximum power transfer theorem.	16-05-2018
EE-10	GEC -2 (Electrical Circuits)	Network graph, Transient response of dc and ac networks, Sinusoidal steady-state analysis, Resonance, Passive filters, Two-port networks, Three phase circuits, Power and power factor in ac circuits.	
EE-11	GMC-1 (Electrical Machines)	Single phase transformer: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; Three phase transformers: connections, parallel operation; Auto-transformer, Three phase induction motors: principle of operation, types, performance, torque-speed characteristics, no-load and blocked rotor tests, equivalent circuit, starting and speed control; Operating principle of single phase induction motors.	
EE-12	GMC-2 (Electrical Machines)	Electromechanical energy conversion principles, DC machines: separately excited, series and shunt, motoring and generating mode of operation and their characteristics, starting and speed control of dc motors. Synchronous machines: cylindrical and salient pole machines, performance, regulation and parallel operation of generators, starting of synchronous motor, characteristics; Types of losses and efficiency calculations of electric machines.	

Test No	Topic code	Topic	Date of Activation
EE-13	GPS-1 (Power Systems)	Power generation concepts, Per-unit quantities, Bus admittance matrix, Gauss-Seidel and Newton-Raphson load flow methods, Voltage and Frequency control, Symmetrical components, Symmetrical and unsymmetrical fault analysis, System stability concepts, Equal area criterion	23-05-2018
EE-14	GPS-2 (Power Systems)	Models and performance of transmission lines and cables, Series and shunt compensation, Power factor correction, Electric field distribution and insulators, Distribution systems, ac and dc transmission concepts,Principles of over-current, differential and distance protection; Circuit breakers	
EE-15	GPE – 1 (Power Electronics)	Characteristics of semiconductor power devices: Diode, Thyristor, Triac, GTO, MOSFET, IGBT; Single and three phase configuration of uncontrolled rectifiers, Line commutated thyristor based converters, Issues of line current harmonics, Power factor, Distortion factor of ac to dc converters.	
EE-16	GPE – 2 (Power Electronics)	DC to DC conversion: Buck, Boost and Buck-Boost converters; Bidirectional ac to dc voltage source converters, Single phase and three phase inverters, Sinusoidal pulse width modulation.	
EE-17	GME-1 (Measurements)	Bridges and Potentiometers, Measurement of voltage, current, power, energy and power factor; Instrument transformers,Error analysis.	30-05-2018
EE-18	GME-2 (Measurements)	Digital voltmeters and multimeters, Phase, Time and Frequency measurement; Oscilloscopes	
EE-19	GEF-1 (Electromagnetic Fields)	Coulomb's Law, Electric Field Intensity, Electric Flux Density, Gauss's Law, Divergence, Electric field and potential due to point, line, plane and spherical charge distributions, Effect of dielectric medium, Capacitance of simple configurations	
EE-20	GEF-2 (Electromagnetic Fields)	Biot-Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magnetomotive force, Reluctance, Magnetic circuits,Self and Mutual inductance of simple configurations.	
EE-21	GGA-1 (General Aptitude)	English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.	
EE-22	GGA-2 (General Aptitude)	Numerical computation, numerical estimation, numerical reasoning and data interpretation.	

Subject-wise Grand Tests 1st Series Each test carries 50 marks and 90 minutes duration Test consists of 10 one mark questions and 20 two marks questions			
Test No	Subject Code	Name of the Subject	Date of Activation
EE-23	GEM	Engineering Mathematics	06-06-2018
EE-24	GCS	Control systems	
EE-25	GSS	Signals & Systems	13-06-2018
EE-26	GDE	Digital Electronics	
EE-27	GEC	Electrical Circuits	20-06-2018
EE-28	GMC	Electrical Machines	
EE-29	GAE	Analog Electronics	27-06-2018
EE-30	GPS	Power Systems	
EE-31	GME	Measurements	04-07-2018
EE-32	GEF	Electromagnetic Fields	
EE-33	GPE	Power Electronics	07-07-2018
EE-34	GGA	General Aptitude	

Full Length Mock GATE - 1st Series
As per GATE pattern
Each test carries 100 Marks and 3 Hours duration

Test No	Mock Codes		Date of Activation
EE-35	Mock-1	Full Length GATE Mock Test-1	11-07-2018
EE-36	Mock-2	Full Length GATE Mock Test-2	18-07-2018
EE-37	Mock-3	Full Length GATE Mock Test-3	25-07-2018

Subject-wise Grand Tests - 2nd Series
Each test carries 50 marks and 90 minutes duration

Test No	Subject Code	Name of the Subject	Date of Activation
EE-38	GEM	Engineering Mathematics	08-08-2018
EE-39	GCS	Control systems	
EE-40	GSS	Signals & Systems	15-08-2018
EE-41	GDE	Digital Electronics	
EE-42	GEC	Electrical Circuits	22-08-2018
EE-43	GMC	Electrical Machines	
EE-44	GAE	Analog Electronics	29-08-2018
EE-45	GPS	Power Systems	
EE-46	GME	Measurements	05-09-2018
EE-47	GEF	Electromagnetic Fields	
EE-48	GPE	Power Electronics	08-09-2018
EE-49	GGA	General Aptitude	

Full Length Mock GATE - 2nd Series (As per GATE pattern)

Test No	Mock Codes		Date of Activation
EE-50	Mock-4	Full Length GATE Mock Test-4	11-09-2018
EE-51	Mock-5	Full Length GATE Mock Test-5	18-09-2018
EE-52	Mock-6	Full Length GATE Mock Test-6	25-09-2018

Multi-Subject wise Grand Tests
Each test carries 50 marks and 90 minutes duration

Test No	Subject Code	Name of the Subject	Date of Activation
EE-53	GEC & GEF	Electrical Circuits & Electromagnetic Fields	03-10-2018
EE-54	GCS & GSS	Control systems & Signals & Systems	
EE-55	GPE & GAE	Power Electronics & AnalogElectronics	10-10-2018
EE-56	GMC & GDE	Electrical Machines & Digital Electronics	
EE-57	GME & GPS	Measurements & Power Systems	24-10-2018
EE-58	GEM & GGA	Engineering Mathematics & General Aptitude	

Full Length Mock GATE - 3rd Series (As per GATE pattern)

Test No	Mock Codes		Date of Activation
EE-59	Mock-7	Full Length GATE Mock Test-7	09-11-2018
EE-60	Mock-8	Full Length GATE Mock Test-8	16-11-2018
EE-61	Mock-9	Full Length GATE Mock Test-9	23-11-2018
EE-62	Mock-10	Full Length GATE Mock Test-10	08-01-2019
EE-63	Mock-11	Full Length GATE Mock Test-11	18-01-2019
EE-64	Mock-12	Full Length GATE Mock Test-12	28-01-2019

Free Practice Tests of GATE-2018 Online Test Series

Subject-wise Grand Tests
Each test carries 50 marks and 90 minutes duration

Test No	Subject Code	Name of the Subject	Date of Activation
EE-P1	GEC	Electrical Circuits	
EE-P2	GSS	Signals & Systems	
EE-P3	GCS	Control systems	
EE-P4	GDE	Digital Electronics	
EE-P5	GMC	Electrical Machines	
EE-P6	GAE	AnalogElectronics	
EE-P7	GME	Measurements	02-05-2018
EE-P8	GEF	Electromagnetic Fields	
EE-P9	GPS	Power Systems	
EE-P10	GPE	Power Electronics	
EE-P11	GEM	Engineering Mathematics	
EE-P12	GGA	General Aptitude	

Full Length Mock GATE(As per GATE pattern)

Test No	Mock Codes		Date of Activation
EE-P13	Mock-1	Full Length GATE Mock Test-1	
EE-P14	Mock-2	Full Length GATE Mock Test-2	
EE-P15	Mock-3	Full Length GATE Mock Test-3	
EE-P16	Mock-4	Full Length GATE Mock Test-4	
EE-P17	Mock-5	Full Length GATE Mock Test-5	
EE-P18	Mock-6	Full Length GATE Mock Test-6	
EE-P19	Mock-7	Full Length GATE Mock Test-7	25-05-2018
EE-P20	Mock-8	Full Length GATE Mock Test-8	
EE-P21	Mock-9	Full Length GATE Mock Test-9	
EE-P22	Mock-10	Full Length GATE Mock Test-10	
EE-P23	Mock-11	Full Length GATE Mock Test-11	
EE-P24	Mock-12	Full Length GATE Mock Test-12	