



ACE[®]
Engineering Academy
Leading Institute for ESE/GATE/PSUs



AP-GENCO-TRANSCO- DISCOM's (EPDCL, SPDCL, CPDCL) Assistant Executive Engineer

Online Test Series

Electronics and Communication Engineering - Schedule

No. of Tests : 15 + (15 <i>free</i> practice tests)		
	New Tests	Practice Tests
Subject Wise Tests	12	12
Full Length Mock Tests	3	3
Total Tests - 30		

Note:

- ❖ The Syllabus considered as per notification of AP-GENCO-TRANSCO-DISCOM's. ACE Engineering Academy does not take any responsibility for deviations in syllabus in the final exam.
- ❖ The dates of above tests may change according to the AP-GENCO-TRANSCO-DISCOM's exam schedule.
- ❖ Tests will be activated at 6:00 pm on scheduled day.
- ❖ All tests will remain active until the AP-GENCO-TRANSCO-DISCOM's examination.
- ❖ Test series available in ENGLISH medium only.

Subject-wise Tests

(No. of Questions: 30, Time duration: 54 Minutes and Marks: 30 M)

Test No	Name of the Test	Date of Activation
Test-01	Linear Control System	30-06-2026
Test-02	General Awareness	01-07-2026
Test-03	Network Analysis	03-07-2026
Test-04	Reasoning and General Intelligence	04-07-2026
Test-05	Fourier Series	06-07-2026
Test-06	English Language And Comprehension	07-07-2026
Test-07	Electronic Devices & Circuits	09-07-2026
Test-08	Quantitative Aptitude	10-07-2026
Test-09	Transmission Lines & Antennas & Maxwell's equations and Field Theory & Wave guides and Components	12-07-2026
Test-10	Computer Knowledge/Proficiency	13-07-2026
Test-11	Digital Circuits & Basics of Micro Processors & Micro Controllers	15-07-2026
Test-12	Communication systems	18-07-2026

Full Length Mock Test Series

(No. of Questions: 100, Time duration: 180 Minutes and Marks: 100 M)

Test-13	Full Length Mock Test-1	25-07-2026
Test-14	Full Length Mock Test-2	01-08-2026
Test-15	Full Length Mock Test-3	08-08-2026

Free Practice Tests

Subject-wise Tests

(No.of Questions: 30, Time duration: 54 Minutes and Marks: 30 M)

Test No	Name of the Test	Date of Activation
Test-01	Linear Control System	04-07-2026
Test-02	General Awareness	
Test-03	Network Analysis	
Test-04	Reasoning and General Intelligence	
Test-05	Fourier Series	
Test-06	English Language And Comprehension	
Test-07	Electronic Devices & Circuits	
Test-08	Quantitative Aptitude	
Test-09	Transmission Lines & Antennas & Maxwell's equations and Field Theory & Wave guides and Components	
Test-10	Computer Knowledge/Proficiency	
Test-11	Digital Circuits & Basics of Micro Processors & Micro Controllers	
Test-12	Communication systems	

Full Length Mock Test Series

(No.of Questions: 100, Time duration: 180 Minutes and Marks: 100 M)

Test-13	Full Length Mock Test-1	06-07-2026
Test-14	Full Length Mock Test-2	
Test-15	Full Length Mock Test-3	

Syllabus

Network Analysis: Kirchoff's Laws, RC, RL & RLC Circuits, Initial conditions, Energy, Power, Instantaneous, max, average, RMS values of alternating currents, Phaser representation, transient and steady state analysis, Total response. Network analysis using Laplace Transforms, properties of Laplace transforms.

Fourier Series: Continuous and discrete Fourier Transforms, z transforms. Applications to signal Analysis. Convolution. Network Theorems and Applications. Two Port Parameters, Series, Parallel and Cascade connections of two port networks, Z, Y, ABCD Parameters, Network Functions, Poles and Zeros. Driving point and Transfer Functions, Image Parameters, Conventional LP, HP, BP, Band Stop Filters. Composite Filters, T, & Lattice Networks, Attenuators and Equalizers.

Electronic Devices & Circuits: PN Junction, PNP, NPN Transistors. Biasing. Tunnel Diode, FET, UJT, SCR Characteristics, Various CB, CE,CC transistor Amplifiers Analysis & Performance. RC coupled and push pull amplifiers, compensation techniques, Feedback, Negative feedback, oscillator Circuits, Phase Shift Oscillator.

Digital Circuits: Wave Shaping, multi-vibrators, Sweep Generators, Counters, logic Gates and Circuits, Number Systems, Codes, Error Detection and Correction. Sequential Circuits, Integrated Circuits OP Amps-Applications, IC Comparator Circuits, A/D, D/A Converters,

Linear Control System: Open loop, closed loop system, Signal Flow Graphs, Stability Routh-Hurwitz and Nyquist Criterion, Bode plots, Gain phase Margin. Lead-Lag compensation Techniques.

Transmission Lines & Antennas: Transmission line equation, Primary and Secondary Parameters, Propagation constants, Open and Short Circuited Lines, Standing Waves, Reflection Coefficient, VSWR, Line as Circuit element, Impedance Matching.

Maxwell's equations and Field Theory: Various Laws & Theorems in Electromagnetism, Plane Waves, Boundary Conditions, Concept of Radiation, Half wave Dipole, Antenna Arrays, Communication Antennas performance Characteristics.

Wave guides and Components: Reciprocal & non Reciprocal Wave guide components, Couplers, Tees, Communication, Link Design.

Basics of Micro Processors & Micro Controllers: Architecture and Assemblers. memory Devices.

Communication systems: Modulation, All types of Modulation techniques, SNR, Analog & Digital Communication techniques, multiplexes, Demodulators, Radio Receivers & Transmitters Characteristics & Basics of Fibre Optics Communication and Satellite Communication Systems.