

Commencing from **9**<sup>TH</sup> **March**, **2025** 



### **Total 22 Tests**

## Paper-I: 11 Tests GS & Engineering Aptitude

 8 Multiple Subject Tests of 50 Questions (400 Ques) Time: 60 minutes



 2 Full Syllabus Tests of 100 Questions (300 Ques) Time: 120 minutes



+ 1 Anubhav Test
 Full Syllabus

### Paper-II: 11 Tests

### **Engineering Discipline**

 8 Multiple Subject Tests of 75 Questions (600 Ques) Time: 90 minutes



 2 Full Syllabus Tests of 150 Questions (450 Ques) Time: 180 minutes



• + 1 Anubhav Test
Full Syllabus

#### Each question carries 2 marks

Tests are designed as per latest syllabus, trend and pattern of ESE. Paper-I (GS and Engineering aptitude) and Paper-II (Technical) both are covered.



Latest

All care has been taken to ensure the highest level of accuracy.



Dynamic test series for cyclic revision of subjects. Tests are time tabled with "New Topics" and "Repeat Topics" to maintain the continuity and a perfect balance between tech and non tech subjects.

### Negative marking = 2/3 marks



Quality Questions framed by experienced research and development team of MADE EASY.



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Opportunity to evaluate yourself on All India Basis. Compare your performance with quality students of MADE EASY.

Fee Structure ₹3,000 + GST
Non-MADE EASY students

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Ex. MADE EASY Students Enrolled in Postal or any long term/ short term classroom course ₹ 1,000 + GST

If student opts this test in live-online mode Nil

For Current Session Students Enrolled in ESE + GATE 2025 Batches



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Note: Anubhav Tests are part of the ESE Offline Prelims 2025 test series.

For outside students Anubhay Tests are free of cost. It will be conducted at all our MADE EASY and NEXT IAS centres across India.

	Test Series Venues
Delhi	Visvesvaraya House: 250, Westend Marg, Opposite ITDC Showroom, Near Saket Metro Station, Saidulajab, New Delhi -110030  Ph: 8851176827; Email: infodelhi@madeeasy.in
Hyderabad Centre	3 <sup>rd</sup> Floor, Reliance Trends Building, Road No 2, Near Omni Hospital, Laxmi Nagar Colony, Kothapet, Hyderabad, Telangana-500035 <b>Ph:</b> 9021300500; Email: infohyderabad@madeeasy.in
Bhopal Centre	Plot No. 46, Zone - 2, M.P. Nagar, Bhopal - 462021 <b>Ph:</b> 0755-4004612, 7290068507; Email : infobhopal@madeeasy.in
Jaipur Centre	A-1, Lion's Colony, Sitabari, Near The Theme Hotel, Tonk Road, Jaipur, Rajasthan - 302018 <b>Ph:</b> 9021300500, 7290068512; Email: infojaipur@madeeasy.in
Kolkata Centre	Sealdah Commercial Complex, 6 <sup>th</sup> Floor, Beliaghata Main Road, Near Sealdah Station, Kolkata-700014 <b>Ph:</b> 9021300500, 7290068511; Email : infokolkata@madeeasy.in
Pune Centre	2 <sup>nd</sup> Floor, Business Bay, Plot No. 84, Near R.T.O. Shivaji Nagar, Pune - 411001 <b>Ph:</b> 9021300500, 7290068508; Email: infopune@madeeasy.in



## CIVIL ENGINEERING

Test No.	Date/Day	Time		Subject	Mark
1		4:00 PM to	Section A : New Topic	Reasoning & Aptitude (All Topics)	
<b>.</b>	9 <sup>th</sup> Mar, 2025	5:00 PM	Section B : New Topic	Engineering Mathematics (All Topics)	100
	Sunday	5:00 PM to	Section A: New Topic	Geo-technical & Foundation Engineering (All Topics)	
<b>Z.</b>		6:30 PM	Section B : New Topic	Environmental Engineering (All Topics)	150
			Section A: New Topic	Basics of Energy and Environment (All Topics)	
3.		4:00 PM to 5:00 PM	Section B : New Topic	Basics of Material Science (All Topics)	100
	16 <sup>th</sup> Mar, 2025		Section C : Repeat Topic of Test 1	Engineering Mathematics + Reasoning & Aptitude (All Topics)	
	Sunday		Section A: New Topic	Solid Mechanics (All Topics)	ī
4.		5:00 PM to 6:30 PM	Section B: Repeat Topic of Test 2	Geo-technical & Foundation Engineering - 1 (Part Syllabus)  Topics: Properties of soil, classification, various tests and inter-relationships; permeability and seepage, compressibility, consolidation and shearing resistance, earth pressure theories and stress distribution in soil	150
			Section C : Repeat Topic of Test 2	Environmental Engineering -1 (Part Syllabus) Topics: Water supply Engineering, Air, Noise pollution and ecology	
			Section A: New Topic	General Principles of Design, Drawing, Importance of Safety (All Topics)	
<b>5</b> .		4:00 PM to 5:00 PM	Section B: Repeat Topic of Test 3	Basics of Energy and Environment (All Topics)	100
	23 <sup>rd</sup> Mar, 2025		Section C : Repeat Topic of Test 3	Basics of Material Science (All Topics)	
	Sunday		Section A: New Topic	Design of Steel Structure (All Topics) + Surveying and Geology (All Topics)	
c		5:00 PM to	Section B : Repeat Topic of Test 4	Solid Mechanics - 1 (Part Syllabus) Topics: Properties of Materials, Simple Stress-strain and elastic constants, Plain Stress-strain, Mohr circle of stress and strain, Bending stress, SFD & BMD	
6.		6:30 PM	Section C : Repeat Topic of Test 2	Geo-technical & Foundation Engg 2 (Part Syllabus) Environmental Engg 2 (Part Syllabus)  Topics: Soil exploration - planning and methods, properties and uses of geo-synthetics, types of foundations and selection criteria, bearing capacity, settlement analysis, design and testing of shallow and deep foundations; slope stability analysis, earthen embankments, dams and earth retaining structure: types, analysis and design, Principles of ground modifications + Topics: Waste water engg, soild waste management	150
			Section A: New Topic	Basics of Project Management (All Topics)	!
7.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 5	General Principles of Design, Drawing, Importance of Safety (AllTopics)	100
	30 <sup>th</sup> Mar, 2025	3.001101	Section C : Repeat Topic of Test 3	Basics of Energy and Environment (All Topics)	
	Sunday		Section A: New Topic	CPM PERT + Hydrology and Water Resource Engineering (All Topics)	150
8.		5:00 PM to 6:30 PM	Section B: Repeat Topic of Test 6	Design of Steel Structure - 1 (Part Syllabus) + Surveying and Geology - 1 (Part Syllabus)  Topics: Steel: Connections, Tension Members, Compression Members; Surveying & Geology: Classification of surveys, various methodologies, instruments and analysis of measurement of distances, elevation and directions	
			Section C : Repeat Topic of Test 4	Solid Mechanics - 2 (Part Syllabus) Topics: Torsion, Principle stress, theories of failure & shear stress	
			Section A: New Topic	Ethics and values in Engineering profession (All Topics)	
<b>3</b> .		4:00 PM to 5:00 PM	Section B: Repeat Topic of Test 7	Basics of Project Management (All Topics)	100
	6 <sup>th</sup> Apr, 2025		Section C : Repeat Topic of Test 5	General Principles of Design, Drawing, Importance of Safety (AllTopics)	
	Sunday		Section A: New Topic	Structural Analysis (All Topics)	
0.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 8	CPM PERT -1 (Part Syllabus) + Hydrology and Water Resource Engineering - 1 (Part Syllabus)  Topics: Construction - Planning, Equipment, Site investigation and Management induding Estimation with latest project management tools and network analysis for different Types of works;+ Hydrological cycle, Ground water hydrology, Well hydrology and related data analysis; Streams and their gauging; River morphology; Flood, drought and their management; Capacity of Reservoirs.	150
			Section C : Repeat Topic of Test 6	Design of Steel Structure - 2 (Part Syllabus) + Surveying and Geology - 2 (Part Syllabus)  Topics: Steel: Plastic Analysis, Beams, Columns bases, Plate Girder, Gantry girder, roof trusses; Survey & Geology: Field astronomy, Global Positioning systems; Map Layout for culverts, canals, bridges, road/railway alignmet and buildings, setting out of curves; Basic knowledge of Engineering geology and its application in projects	

Test No.	Date/Day	Time		Subject	Mark
			Section A: New Topic	Information and Communication Technologies (ICT) (All Topics)	
11.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	100
	13 <sup>th</sup> Apr, 2025	3.00 FW	Section C : Repeat Topic of Test 7	Basics of Project Management (All Topics)	
	Sunday		Section A: New Topic	Design of concrete and Masonry Structures (All Topics)	
			Section B: Repeat Topic of Test 10	Structural Analysis - 1 (Part Syllabus) Topics: Analysis of determinate and indeterminate structures (beams and plane frames only), suspended cables	
12.		5:00 PM to 6:30 PM	Section C : Repeat Topic of Test 8	CPM PERT - 2 (Part Syllabus) + Hydrology and Water Resource Engineering - 2 (Part Syllabus)  Topics: Analysis of Rates of various types of works; Tendering Process and Contract Management, Quality Control, Productivity, Operation Cost; Land acquisition; Labour safety and welfare.+ Water Resources Engineering: Multipurpose uses of Water, River basins and their potential; Irrigation systems, water demand assessment; Resources storages and their yields; Water logging, canal and drainage design, Gravity dams, falls, weirs, Energy dissipaters, barrage Distribution works, Cross drainage works and head-works and their design; Concepts in canal design, construction & maintenance; River training, measurement and analysis of rainfall.	150
			Section A: New Topic	Standards and Quality practices in production, construction, maintenance and services (All Topics)	
<b>13</b> .		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	100
	20 <sup>th</sup> Apr, 2025	3.00 FWI	Section C : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	
	Sunday		Section A: New Topic	Flow of fluids, hydraulic machines and hydro power (All Topics)	
14.		5:00 PM to	Section B : Repeat Topic of Test 12	Design of concrete and Masonry Structures - 1 (Part Syllabus)  Topics: Limit state design for bending, shear, axial compression and combined forces; design of beams, Lintels, Tanks and staircases.	150
•		6:30 PM	Section C : Repeat Topic of Test 10	Structural Analysis - 2 (Part Syllabus)  Topics: Analysis of determinate and indeterminate trusses, rolling loads, influence lines, free and forced vibrations' or single degree and multiple degree freedom system, concept and use of computer aided design (matrix analysis)	
			Section A: New Topic	Current issues of national and international importance relating to social, economic and industrial development (All Topics)	ī
<b>5.</b>		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 13	Standards and Quality practices in production, construction, maintenance & services (All Topics)	100
	27 <sup>th</sup> Apr, 2025		Section C : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	
	Sunday		Section A: New Topic	Transportation Engineering + Building Materials (All Topics)	
ıc		5:00 PM to	Section B : Repeat Topic of Test 14	Flow of fluids, hydraulic machines and hydro power (All Topics)	150
<b>6</b> .		6:30 PM	Section C : Repeat Topic of Test 12	Design of concrete and Masonry Structures - 2 (Part Syllabus)  Topics: Design of slabs, foundations and retaining walls; Principles of pre-stressed concrete design including materials and methods; Earthquake resistant design of structures, design of Masonry structure	150
<b>17.</b>	4 <sup>th</sup> May, 2025	10 AM to 12 Noon	Full Syllabus Test	Paper- I : Non-Technical	200
8.	Sunday	2 PM to 5 PM	Full Syllabus Test	Paper- II : Technical	300
<b>9</b> .	11 <sup>th</sup> May, 2025	10 AM to 12 Noon	Full Syllabus Test	Paper-l : Non-Technical	200
<b>20.</b>	Sunday	2 PM to 5 PM	Full Syllabus Test	Paper- II : Technical	300
				•	
			Anubhav: Simu	late Real ESE Prelims Exam	
21.	18 <sup>th</sup> May, 2025	10 AM to 12 Noon	Non-Technical Paper (	Paper-I) : Full Syllabus Test	200
22.	Sunday	2 PM to 5 PM	Technical Paper (Pape	r-II) : Full Syllabus Test	300



# MECHANICAL ENGINEERING

Test No.	Date/Day	Time	Subject		Mark
_		4:00 PM to	Section A: New Topic Reasoning & Aptitu	ude (All Topics)	
1.		5:00 PM	Section B : New Topic   Engineering Mathe	ematics (All Topics)	100
•	9 <sup>th</sup> Mar, 2025 Sunday	5:00 PM to	Section A: New Topic Thermodynamics	(All Topics)	
2.		6:30 PM	Section B : New Topic Refrigeration and A	Air-conditioning (All Topics)	150
			Section A: New Topic Basics of Energy at	nd Environment (All Topics)	
3.		4:00 PM to 5:00 PM	Section B : New Topic Basics of Material S	cience (AllTopics)	100
		3.0011	Section C : Repeat Topic of Test 1   Engineering Mathe	ematics + Reasoning & Aptitude (All Topics)	
	16 <sup>th</sup> Mar, 2025 Sunday		Section A: New Topic Production Engine	ering & Material Science (All Topics)	
4.	Junuay	5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 2 Thermodynamics - Topics: Thermodynamics - Thermodynamics; Entrop	systems and processes; properties of pure substance; Zeroth, First and Second Laws of	150
			Section C : Repeat Topic of Test 2   Vapour compression refri	Air-conditioning - 1 (Part Syllabus) geration, Refrigerants and Working cycles, Compressors, and Expansion devices, Other types of refrigeration systems like Vapour Absorption	
			Section A: New Topic   General Principles	of Design, Drawing, Importance of Safety (All Topics)	
<b>5</b> .		4:00 PM to	Section B : Repeat Topic of Test 3 Basics of Energy at	nd Environment (All Topics)	100
	22 <sup>rd</sup> M 2025	5:00 PM	Section C : Repeat Topic of Test 3 Basics of Material S	icience (All Topics)	
	23 <sup>rd</sup> Mar, 2025 Sunday		Section A: New Topic Fluid Mechanics ar	nd Turbo Machinery (All Topics)	
C		5:00 PM to	Topics: Metal joining, me	ering & Material Science - 1 (Part Syllabus) etal casting-Metal forming, computer Integrated manufacturing, Basic Crystallography, and Non Ferrous Metals, Non metallic materials,	150
6.		6:30 PM	Topics: Irreversibility ar to energy conversion: i electric and Vortex tub	2 (Part Syllabus) + Refrigeration and Air-conditioning - 2 (Part Syllabus) davailability, Otto, Diesel and Dual cycles, analysis of thermodynamic cycles related deal and real gases; compressibility factor; Gas mixtures + Vapour jet, thermo e refrigeration. Psychometric properties and processes, Comfort chart, Comfort tioning, Load calculations and Heat pumps	
			Section A: New Topic Basics of Project M	lanagement (All Topics)	100
7.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 5   General Principles	of Design, Drawing, Importance of Safety (All Topics)	
	30 <sup>th</sup> Mar, 2025	3.00 T W	Section C : Repeat Topic of Test 3 Basics of Energy at	nd Environment (All Topics)	
	Sunday		Section A: New Topic Heat Transfer (All Transfer)	opics) + IC Engines (All Topics)	<u> </u>
8.		5:00 PM to 6:30 PM	Topics: Basic Concepts a equation and applicatior	nd Turbo Machinery - 1 (Part Syllabus) nd Properties of Fluids, Manometry, Fluid Statics, Buoyancy, Equations of Motion, Bernoulli's ns + Reciprocating and Rotary pumps, Pelton wheel, Kaplan and Francis Turbines, ulse and Reaction principles	150
			Topics: Machining and m	ering & Material Science - 2 (Part Syllabus) nachine tool operations, Limits, fits and tolerances, Metrology and inspection ams, Basics of Nano-materials, Mechanical Properties & Testing, Corrosion prevention & control	
			Section A: New Topic Ethics and values	in Engineering profession (All Topics)	
<b>9</b> .	6 <sup>th</sup> Apr, 2025	4:00 PM to 5:00 PM	Section B: Repeat Topic of Test 7 Basics of Project N	Management (All Topics)	100
	Sunday		Section C : Repeat Topic of Test 5 General Principles	of Design, Drawing, Importance of Safety (All Topics)	
			Section A: New Topic Strength of Materia	als & Engineering Mechanics (All Topics)	-
10.		5:00 PM to 6:30 PM	Topics: Modes of heat to	Part Syllabus) + IC Engine - 1 (Part Syllabus) ransfer, Steady and unsteady heat conduction, Thermal resistance, Fins, Free and forced for convective heat transfer + SI and CI Engines, Engine Systems and Components.	150
101			Topics : Viscous flow of i pipes. + Steam and Ga	nd Turbo Machinery - 2 (Part Syllabus) ncompressible fluids, Laminar and Turbulent flows, Flow through pipes and head losses in s Turbines, Theory of Jet Propulsion – Pulse jet and Ram Jet Engines, Reciprocating ors – Theory and Applications	

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Test No.	Date/Day	Time	Subject		Mark
			Section A: New Topic Information and Communication	Technologies (ICT) (All Topics)	
11.		4:00 PM to 5:00 PM	Section B: Repeat Topic of Test 9   Ethics and values in Engineering p	orofession (All Topics)	100
	12 <sup>th</sup> 4 2025	3.00 FW	Section C : Repeat Topic of Test 7   Basics of Project Management	(All Topics)	
	13 <sup>th</sup> Apr, 2025 Sunday		Section A: New Topic Theory of Machines (All Topics)		
12.		5:00 PM to 6:30 PM	Section B: Repeat Topic of Test 10 Strength of Materials & Engineerin Topics: Stresses and Strains-Compound Stress Thin and thick Cylinders, Spheres. + Analysis o	ses and Strains, Bending Moment and Shear Force Diagrams,	150
				Engine - 2 (Part Syllabus) transfer coefficient; boiling & condensation, Heat exchanger ristics and testing of IC Engines; Fuels; Emissions and Emission Control.	
			Section A: New Topic Standards and Quality practices in productions	duction, construction, maintenance and services (All Topics)	
13.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 11   Information and Communication	Technologies (ICT) (All Topics)	100
			Section C : Repeat Topic of Test 9 Ethics and values in Engineering	profession (All Topics)	
	20 <sup>th</sup> Apr, 2025		Section A: New Topic Renewable Sources of Energy + Inc Robotics & Mechatronics	dustrial and Maintenance Engineering (All Topics)	
<b>14</b> .	Sunday	5:00 PM to 6:30 PM	Dynamic Analysis – Slider – crank mechanism:	bility, Inversions, Velocity & Acceleration Analysis of Planar Mechanisms, s, turning moment computations, flywheel, Governors, Free and forced stems, Transmissibility Ratio, Vibration Isolation, Critical Speed of Shafts.	150
			Section C : Repeat Topic of Test 10 Strength of Materials & Engineerin Topics: Theory of Bending Stresses, Slope and	g Mechanics - 2 (Part Syllabus) deflection, Torsion, Friction, Centroid and Centre of Gravity.	
		4:00 PM to	Section A: New Topic Current issues of national and interrection and industrial developments	national importance relating to social, (All Topics)	
<b>15</b> .		5:00 PM	Section B: Repeat Topic of Test 13 Standards and Quality practices in pro	duction, construction, maintenance & services (All Topics)	100
			Section C : Repeat Topic of Test 11   Information and Communication	Technologies (ICT) (All Topics)	
	27 <sup>th</sup> Apr, 2025		Section A: New Topic   Machine Design + Power Plant Eng	gineering (All Topics)	
6.	Sunday	5:00 PM to 6:30 PM	Section B: Repeat Topic of Test 14 Renewable Sources of Energy + Inc Robotics & Mechatronics	dustrial and Maintenance Engineering (All Topics)	150
		0.50 T W	tooth profiles, Law of gearing, Involute profile, Ir	ardation, cycloidal motion, oscillating followers; Gears – Geometry of nterference, Helical, Spiral and Worm Gears, Gear Trains- Simple, compound ing masses, Gyroscopes & its effect on automobiles, ships & aircrafts,	
17.	4 <sup>th</sup> May, 2025	10 AM to 12 Noon	Full Syllabus Test 1 Paper- I		20
8.	Sunday	2 PM to 5 PM	Full Syllabus Test 2   Paper- II		30
9.	11 <sup>th</sup> May, 2025	10 AM to 12 Noon	Full Syllabus Test Paper-I : Non-Technical		20
20.	Sunday	2 PM to 5 PM	Full Syllabus Test Paper- II : Technical		30



			Anubhav: Simulate Real ESE Prelims Exam	
21.	18 <sup>th</sup> May, 2025	10 AM to 12 Noon	Technical Paper (Paper-I) : Full Syllabus Test	200
22.	Sunday	2 PM to 5 PM	Non-Technical Paper (Paper-II) : Full Syllabus Test	300



# **ELECTRICAL ENGINEERING**

Test No.	Date/Day	Time			Subject	Marks
4		4:00 PM to	Section A : New Topic		Reasoning & Aptitude (AllTopics)	
1.		5:00 PM	Section B : New Topic		Engineering Mathematics (All Topics)	100
	9 <sup>th</sup> Mar, 2025 Sunday	5.00.014.	Section A: New Topic		Electrical Circuits (All Topics)	
2.		5:00 PM to 6:30 PM	Section B : New Topic		Digital Electronics + Microprocessors (All Topics)	150
			Section A: New Topic		Basics of Energy and Environment (All Topics)	1
3.		4:00 PM to	Section B : New Topic		Basics of Material Science (All Topics)	100
U.		5:00 PM	Section C : Repeat Topic of Test 1		Engineering Mathematics + Reasoning & Aptitude (AllTopics)	
	16 <sup>th</sup> Mar, 2025		Section A: New Topic	_	Control Systems + Engineering Mathematics (All Topics)	1
4.	Sunday	5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 2	: 	Electrical Circuits - 1  Topics: Circuit elements, KCL, KVL, Node and Mesh analysis, ideal current and voltage sources, Thevenin's, Norton's, Superposition and Maximum Power Transfer theorems, Sinusoidal steady state analysis. Transient response of DC and AC networks,	150
			Section C : Repeat Topic of Test 2		Digital Electronics -1 + Microprocessors -1 (Part Syllabus)  Boolean Algebra, Logic gates, Combinational circuits and multiplexers + Microprocessor basics- interfaces and applications.	
			Section A: New Topic		General Principles of Design, Drawing, Importance of Safety (All Topics)	
<b>5</b> .		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 3		Basics of Energy and Environment (All Topics)	100
	22rd M 2025		Section C : Repeat Topic of Test 3		Basics of Material Science (All Topics)	
	23 <sup>rd</sup> Mar, 2025 Sunday		Section A: New Topic		Electrical Machines (AllTopics)	
6.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 4	I	Control Systems - 1 + Engineering Mathematics - 1 (Part Syllabus)  Topics: Principles of feedback, transfer function, block diagrams and signal flow graphs, transient response analysis, steady-state errors, transforms and their applications; Routh-hurwitz criterion, root loci + Matrix theory, Eigen values & Eigen vectors, system of linear equations, Numerical methods for solution of non-linear algebraic equations & differential equations, integral calculus, partial derivatives, maxima &minima, Line, Surface & Volume Integrals.	150
			Section C : Repeat Topic of Test 2		Electrical Circuits - 2 + Digital Circuits - 2 (Part Syllabus)  Topics: Basic filter concepts, two-port networks, Network graphs, Magnetically coupled circuits  + Sequential logic circuits, multivibrators, sample and hold circuits and A/D-D/A converters.	
		4:00 PM to 5:00 PM	Section A: New Topic		Basics of Project Management (All Topics)	
7.			Section B : Repeat Topic of Test 5		General Principles of Design, Drawing, Importance of Safety (AllTopics)	100
			Section C : Repeat Topic of Test 3		Basics of Energy and Environment (All Topics)	
	30 <sup>th</sup> Mar, 2025		Section A: New Topic		Power Systems (All Topics)	
	Sunday		Section B : Repeat Topic of Test 6		Electrical Machines - 1 (Part Syllabus) Topics: 1-phase & 3-phase transformers - connections, parallel operation, auto-transformer, energy conversion principles, Induction motors - principles, types, performance characteristics, starting and speed control, servo and stepper motors.	
8.		5:00 PM to 6:30 PM	Section C : Repeat Topic of Test 4		Control Systems - 2 + Engineering Mathematics - 2 (Part Syllabus) Topics: Nyquist techniques, Bode plots, Iag, lead and lead-lag compensation, stability analysis, frequency response analysis, state space model, state transition matrix, controllability and observability, linear state variable feedback, PID and industrial controllers + Fourier series, linear, nonlinear and partial differential equations, initial and boundary value problems, complex variables, Taylor's and Laurent's series, residue theorem, probability and statistics fundamentals, Sampling theorem, random variables, Normal and Poisson distributions, correlation and regression analysis.	150
			Section A: New Topic		Ethics and values in Engineering profession (All Topics)	
9.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 7		Basics of Project Management (All Topics)	100
	6 <sup>th</sup> Apr, 2025	3.00 T W	Section C : Repeat Topic of Test 5		General Principles of Design, Drawing, Importance of Safety (All Topics)	1
	Sunday		Section A: New Topic		Power Electronics and Drives (All Topics)	
10.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 8		Power Systems - 1 (Part Syllabus) Topics: Basic power generation concepts, steam, gas and water turbines, transmission line models and performance, cable performance, insulation, corona and radio interference, power factor correction, Radial and ring-main distribution systems, voltage control and economic operation, HVDC transmission and FACTS, distributed generation, solar and wind power, smart grid concepts, environmental implications, fundamentals of power economics.	150
			Section C : Repeat Topic of Test 6		Electrical Machines - 2 (Part Syllabus) Topics: DC machines - types, windings, generator characteristics, armature reaction and commutation, starting and speed control of motors, Synchronous machines - performance, regulation, parallel operation of generators, motor starting, characteristics and applications	

Test No.	Date/Day	Time		Subject	Marks
			Section A: New Topic	Information and Communication Technologies (ICT)  (All Topics)	1
11.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	100
•••	13 <sup>th</sup> Apr, 2025		Section C : Repeat Topic of Test 7	Basics of Project Management (All Topics)	4
	Sunday		Section A: New Topic	BEE + Analog Electronics + Electrical & Electronic Measurements (All Topics)	
12.		5:00 PM to	Section B : Repeat Topic of Test 10	Power Electronics and Drives -1 (Part Syllabus)  Topics: Semiconductor power diodes, transistors, thyristors, triacs, GTOs, MOSFETs and IGBTs - static characteristics and principles of operation, triggering circuits, phase control rectifiers, bridge converters: fully controlled and half controlled	150
12.		6:30 PM	Section C : Repeat Topic of Test 8	Power Systems - 2 (Part Syllabus) Topics: symmetrical components, fault analysis, Matrix representation of power systems, load flow analysis, System stability concepts, Swing curves and equal area criterion. Concepts of power system dynamics, Principles of protection systems, basics of solid state relays and digital protection; Circuit breakers.	
			Section A: New Topic	Standards and Quality practices in production, construction, maintenance and services (All Topics)	
13.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	100
	20 <sup>th</sup> Apr, 2025	3.00 T W	Section C : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	1
	Sunday		Section A: New Topic	Systems & Signal Processing + Communication Systems (AllTopics)	
14.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 12	BEE-1 + Analog Electronics - 1 + Electrical & Electronic Measurements - 1 (Part Syllabus) Topics: Basics of semiconductor diodes and transistors characteristics, junction and field effect transistors (BJT, FET, and MOSFETs) + Operational amplifiers-characteristics and applications + Principles of measurement, accuracy, precision and standards; Bridges and potentiometers; moving coil, moving iron, dynamometer and induction type instruments, measurement of voltage, current, power energy and power factor.	150
			Section C : Repeat Topic of Test 10	Power Electronics & Drives - 2 (Part Syllabus)  Topics : Principles of choppers and inverters, basis concepts of adjustable speed dc and ac drives, DC-DC switched mode converters, DC-AC switched mode converters, resonant converters, high frequency inductors and transformers, power supplies.	-
	27 <sup>th</sup> Apr, 2025		Section A: New Topic	Current issues of national and international importance relating to social, economic and industrial development	1
<b>15</b> .		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 13	Standards and Quality practices in production, construction, maintenance & services (All Topics)	100
		3.00 T W	Section C : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	-
	Sunday		Section A: New Topic	Electromagnetic Theory + Computer Fundamentals + Electrical Materials (All Topics)	
			Section B : Repeat Topic of Test 14	Systems & Signal Processing + Communication Systems (AllTopics)	
16.		5:00 PM to 6:30 PM	Section C : Repeat Topic of Test 12	BEE - 2 + Analog Electronics - 2 (Part Syllabus) + Electrical & Electronic Measurements - 2 (Part Syllabus)  Topics: Different types of transistor amplifiers, equivalent circuits and frequency response, oscillators and other circuits, feedback amplifiers + Basics of filter circuits and applications, simple active filters, basics of linear integrated circuits + Instrument transformers, digital voltmeters and multi-meters, phase, time and frequency measurement, q-meters, oscillosocopes, potentiometric recorders, error analysis, basics of sensors, transducers, basics of data acquisition systems,	150
17.	4 <sup>th</sup> May, 2025	10 AM to 12 Noon	Full Syllabus Test 1	Paper- I	200
18.	Sunday	2 PM to 5 PM	Full Syllabus Test 2	Paper- II	300
19.	11 <sup>th</sup> May, 2025	10 AM to 12 Noon	Full Syllabus Test	Paper-I : Non-Technical	200
20.	Sunday	2 PM to 5 PM	Full Syllabus Test	Paper-II : Technical	300
				•	
			Anubhav: Simul	ate Real ESE Prelims Exam	
21.	18 <sup>th</sup> May, 2025	10 AM to 12 Noon	Technical Paper (Paper	-I) : Full Syllabus Test	200
<b>22</b> .	Sunday	2 PM to	Non-Technical Paner (P	Paper-II) : Full Syllabus Test	300

Non-Technical Paper (Paper-II) : Full Syllabus Test

300

**22.** 



# **ELECTRONICS & TELECOM ENGG.**

Test No.	Date/Day	Time		Subject	Marks
_		4:00 PM to	Section A : New Topic	Reasoning & Aptitude (All Topics)	
1.		5:00 PM	Section B : New Topic	Engineering Mathematics (AllTopics)	100
2	9 <sup>th</sup> Mar, 2025 Sunday	5:00 PM to	Section A: New Topic	Network Theory (All Topics)	
2.		6:30 PM	Section B : New Topic	Digital Circuits (All Topics)	150
			Section A: New Topic	Basics of Energy and Environment (All Topics)	
3.		4:00 PM to 5:00 PM	Section B : New Topic	Basics of Material Science (All Topics)	100
			Section C : Repeat Topic of Test 1	Engineering Mathematics + Reasoning & Aptitude (AllTopics)	1
	16 <sup>th</sup> Mar, 2025 Sunday		Section A: New Topic	Control Systems + Microprocessors and Microcontroller (All Topics)	
4.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 2	Network Theory - 1 (Part Syllabus) Topics: Ohm's & Kirchoff's laws, Wye-Delta transformation, mesh & nodal analysis, DC circuits. Single-phase AC circuits, Steady state sinusoidal analysis, frequency domain analysis of RLC circuits. Circuit theorems. Linear constant coefficient differential equations - Time domain analysis of RLC circuits, Solution of network equations using Laplace transforms.	150
			Section C : Repeat Topic of Test 2	Digital Circuits - 1 (Part Syllabus) Topics: Boolean Algebra & uses, Logic gates, Combinatorial circuits design& applications, Basics of multiplexers. MUX/ROM/PLA based design.	1
			Section A: New Topic	General Principles of Design, Drawing, Importance of Safety (All Topics)	
<b>5</b> .		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 3	Basics of Energy and Environment (All Topics)	100
	23 <sup>rd</sup> Mar, 2025		Section C : Repeat Topic of Test 3	Basics of Material Science (AllTopics)	
	Sunday		Section A: New Topic	Electronic Devices & Circuits + Analog Circuits (All Topics)	1
6.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 4	Control Systems - 1 (Part Syllabus) + Microprocessors and Microcontroller - 1 (Part Syllabus) Topics: Feedback systems-open &close loop types, Signal flow graphs. Transient and Steady state analysis. Stability analysis, Routh-Hurwitz criteria. Root loci + Microprocessors - basics, interrupts, instruction sets.	150
		0.00	Section C : Repeat Topic of Test 2	Network Theory - 2 (Part Syllabus) + Digital Circuits - 2 (Part Syllabus)  Topics: 2-port network parameters-driving point & transfer functions. Network graphs & matrices. + Sequential circuits design& applications, counters, registers, memories, Moore & Mealy circuit design. Digital IC families.  A/D-D/A converters.	]
			Section A: New Topic	Basics of Project Management (All Topics)	
7.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 5	General Principles of Design, Drawing, Importance of Safety (All Topics)	100
	20 <sup>th</sup> Mary 2025		Section C : Repeat Topic of Test 3	Basics of Energy and Environment (All Topics)	
	30 <sup>th</sup> Mar, 2025 Sunday		Section A: New Topic	Analog and Digital Communication Systems (All Topics)	
8.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 6	Electronic Devices & Circuits - 1 (Part Syllabus) + Analog Circuits Topics - 1 (Part Syllabus)  Topics: Basics of semiconductors. Diode basics and characteristics, Diodes for different uses. Basics of Optoelectronics and its applications,  Optical sources/detectors + Topics: Diode circuits for different uses, Small signal equivalent circuits of diodes. Biasing & stability  of BJT & JFET amplifier circuits. Small signal equivalent circuits of BJTS and FETs, single stage amplifiers.	150
			Section C : Repeat Topic of Test 4	Control Systems - 2 (Part Syllabus) + Microprocessors and Microcontroller - 2 (Part Syllabus)  Topics: Frequency response analysis, Nyquist/Bode plots. Design of control systems, compensators, elements of lead/lag compensation, PID and industrial controllers. State equations for networks + DMA, peripheral interfacing, Microcontrollers & uses and Embedded systems.	
			Section A: New Topic	Ethics and values in Engineering profession (All Topics)	
9.	6 <sup>th</sup> Apr, 2025	4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 7	Basics of Project Management (All Topics)	100
	Sunday		Section C : Repeat Topic of Test 5	General Principles of Design, Drawing, Importance of Safety (All Topics)	
			Section A: New Topic	Signals and Systems + Basic Electrical Engineering (All Topics)	1
10.		5:00 PM to 6:30 PM	Section B: Repeat Topic of Test 8	Analog & Digital Communication Systems - 1 (Part Syllabus) Topics: Random signals, noise, probability theory. Analog communication Systems - AM, FM, transmitters, receivers, theory, practice, standards, SNR comparison.	150
		0.50 F W	Section C : Repeat Topic of Test 6	Electronic Devices & Circuits-2 (Part Syllabus) + Analog Circuits Topics -2 (Part Syllabus) + Analog Circuits -2 (Part Syllabus) + Analog Circuits -2 (Part Syllabus) + Analog Circuits -2 (Part Sylla	

Test No.	Date/Day	Time		Subject	Marks
			Section A: New Topic	Information and Communication Technologies (ICT) (All Topics)	ŀ
11.		4:00 PM to	Section B : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	100
•••	13 <sup>th</sup> Apr, 2025	5:00 PM	Section C : Repeat Topic of Test 7	Basics of Project Management (All Topics)	
	Sunday		Section A: New Topic	Advanced Communication + Electronic Measurements and Instrumentation (All Topics)	<u>.                                      </u>
12.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 10	Signals and Systems - 1 (Part Syllabus) + Basic Electrical Engineering - 1 (Part Syllabus)  Topics: Classification and Applications of signals and systems. CTF5, CTFT and their application to continuous time systems. Laplace transform, its applications and realization of continuous time systems + Electro-magnetism, Faraday's & Lenz's laws, induced EMF and its uses; DC machines, and synchronous machines; Electrical power sources-basics: hydroelectric, thermal, nuclear, wind, solar; Basics of batteries and their uses.	150
			Section C : Repeat Topic of Test 8	Analog & Digital Communication Systems - 2 (Part Syllabus)  Topics: Information theory. Digital communication systems - Analog versus digital communication & applications, basics, sampling, quantizing, coding, PCM, DPCM, multiplexing-audio/video, Digital modulation: ASK, FSK, PSK. multiple accesses: TDMA, FDMA, CDMA.	
			Section A: New Topic	Standards and Quality practices in production, construction, maintenance and services (All Topics)	
13.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 11	Information and Communication Technologies (ICT)  (All Topics)	100
	20 <sup>th</sup> Apr, 2025	3.00 T W	Section C : Repeat Topic of Test 9	Ethics and values in Engineering profession (AllTopics)	
	Sunday		Section A: New Topic	Electromagnetics + Computer Organization and Architecture (All Topics)	
14.		5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 12	Advanced Comm1 (Part Syllabus) + Electronic Measurements & Instrumentation-1 (Part Syllabus)  Topics: Fibre optic communication systems: fibre optics, theory, practice, standards, block schematics, link calculations, system design. Communication networks: Principles, practices, technologies, uses, O3 model, security. Basic packet multiplexed streams and scheduling, protocols (TCP/TCPP). + Principles of measurement, accuracy, precision and standards, Static/dynamic characteristics of measurement systems, errors, statistical analysis and curve fitting. Analog and Digital systems for measurement, measuring instruments for different applications.	150
			Section C : Repeat Topic of Test 10	Signals and Systems - 2 (Part Syllabus) + Basic Electrical Engineering - 2 (Part Syllabus)  Topics: Discrete time Fourier transform, Discrete Fourier transform and their application to discrete time systems.  Z-transform, its applications and realization of discrete time systems. Digital filters: FIR/IIR types, design, speech/audio/radar signal processing uses + Transformers, efficiency; induction machines.	
			Section A: New Topic	Current issues of national and international importance relating to social, economic and industrial development	
<b>15.</b>		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 13	Standards and Quality practices in production, construction, maintenance & services (All Topics)	100
	27 <sup>th</sup> Apr, 2025		Section C : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (AllTopics)	
	Sunday		Section A: New Topic	Advanced Electronics + Materials Science (All Topics)	
			Section B : Repeat Topic of Test 14	Electromagnetics + Computer Organization and Architecture (All Topics)	150
16.		5:00 PM to 6:30 PM	Section C : Repeat Topic of Test 12	Advanced Comm2 (Part Syllabus) + Electronic Measurements & Instrumentation-2 (Part Syllabus) Topics: Microwave & satellite communication: Terrestrial/space type LOS systems, block schematics link calculations, system design. Communication satellites, orbits, characteristics, systems, uses. Cellular networks, types, analysis. + Measurement systems for non-electrical quantities, different types of transducers and displays. Basics of telemetry and data acquisition systems.	150
<b>17.</b>	4 <sup>th</sup> Marri 2025	10 AM to 12 Noon	Full Syllabus Test 1	Paper-I	200
18.	4 <sup>th</sup> May, 2025 Sunday	2 PM to 5 PM	Full Syllabus Test 2	Paper- II	300
19.	11 <sup>th</sup> May, 2025	10 AM to 12 Noon	Full Syllabus Test	Paper-I : Non-Technical	200
20.	Sunday	2 PM to 5 PM	Full Syllabus Test	Paper- II : Technical	300
				+	
			Anubhav : Simu	late Real ESE Prelims Exam	
21.	18 <sup>th</sup> May, 2025	10 AM to 12 Noon	Technical Paper (Pape	r-I) : Full Syllabus Test	200
<b>22</b> .	Sunday	2 PM to 5 PM	Non-Technical Paper (	Paper-II) : Full Syllabus Test	300



- Tests will be conducted as per the above-given schedule.
- Answer Key/Solutions will be uploaded on **Sunday7:00 PM** on www.madeeasy.in
- In case of any discrepancy in the solution, students can challenge the answer key provided by us. The link "Challenge the solutions" will be available on the home page of www.madeeasy.in from Sunday 7:00 PM to Monday 5:00 PM.
- Test result will be uploaded on **Friday 6:00 PM** on www.madeeasy.in

#### **Tests for Absentees**

Students are advised not to be absent. If you miss the test(s) due to any unavoidable circumstances, then you can appear on the next day (Monday).

**Part Syllabus Test Timing:** 4:00 PM to 6:30 PM.

Full Syllabus test Timing: 10:00 AM to 12:00 PM and 12:30 PM to 3:30 PM.

**NOTE:** Test papers will be evaluated, but RANK will NOT be generated for absentees.