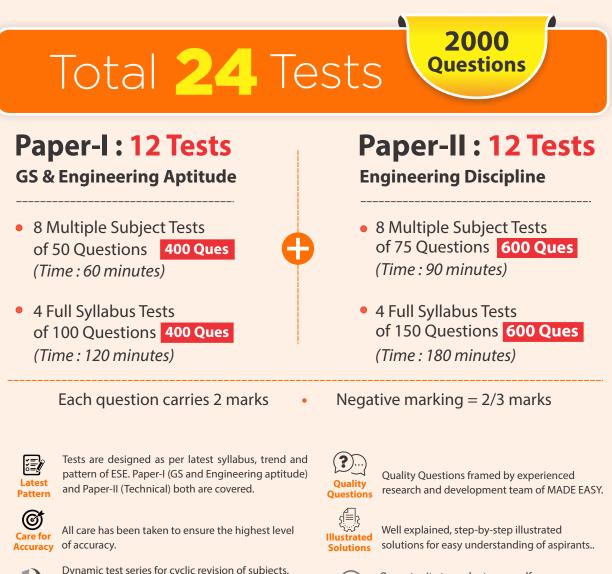
ESE 2023 Prelims Offline Test Series



Commencing from 6th Nov, 2022





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.



Fee Structure

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

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- 2 Year Course : 2020-2022 : Eligible for 2022 Test Series.

Enroll Now

- 2 Year Course 2021-2023 : Who had opted for ESE 2023 test series instead of ESE 2022.
- 1 Year Courses : 2021-22 : Who had opted for ESE 2023 test series instead of ESE 2022.

Admission Open

	Test Series Venues
Delhi	CE : IGNOU Road Centre : Hundred Million, 6, Dang Complex, Saidulajab Extension, IGNOU Road, Near Saket Metro Station, New Delhi - 110030 Ph: 011-40573823, 9599022014
	CE : Saket Centre : Opp. ITDC, Westend Marg, Near Saket Metro Station, Saidulajab, New Delhi -110030 • Ph: 8851176827
	ME : Sultanpur Centre : 174, Near Sultanpur Metro Station, Pillar no. SP 33, MG Road, Sultanpur, New Delhi - 110030 • Ph: 8851176828
	EE : Saket Centre : Opp. ITDC, Westend Marg, Near Saket Metro Station, Saidulajab, New Delhi -110030 • Ph: 8851176827
	EC : Saket Centre : Opp. ITDC, Westend Marg, Near Saket Metro Station, Saidulajab, New Delhi -110030 • Ph: 8851176827
Hyderabad Centre	2 nd Floor KVR Complex, Green Hills Colony, Victoria Memorial Metro Station, Kothapet, Hyderabad, Telangana–500035 Ph: 9021300500, 7290068509; Email : infohyderabad@madeeasy.in
Bhopal Centre	Plot No. 46, ZONE - 2, M.P. Nagar, Bhopal - 462021 Ph: 0755-4004612, 7290068507; Email : infobhopal@madeeasy.in
Jaipur Centre	A-1, Lion's Colony, Sitabari, Near The Theme Hotel, Tonk Road, Jaipur, Rajasthan - 302018 Ph: 9021300500, 7290068512; Email : infojaipur@madeeasy.in
Lucknow Centre	B-36, Sector-O Near CMS, Aliganj Lucknow-226021 Ph: 9021300500, 7290068506; Email : infolucknow@madeeasy.in
Bhubaneswar Centre	Plot No - 1441, CRPF SQUARE, Opposite of IOCL Petrol Pump, Bhubaneswar, Orissa Ph: 9021300500, 7290068510; Email : infobhubaneswar@madeeasy.in
Kolkata Centre	Sealdah Commercial Complex, 6 th Floor, Beliaghata Main Road, Near Sealdah Station, Kolkata-700014 Ph: 9021300500, 7290068511; Email : infokolkata@madeeasy.in
Pune Centre	2 nd Floor, Business Bay, Plot No. 84, Near R.T.O. Shivaji Nagar, Pune - 411001 Ph: 9021300500, 7290068508; Email : infopune@madeeasy.in
Patna Centre	Nutan Complex, Near Krrish Hyundai, Main Road Kankarbagh, Patna - 800020 Ph: 9021300500, 7290068505; Email : infopatna@madeeasy.in



CIVIL ENGINEERING

Test No.	Date/Day	Time			Subject	Mark
1		4:00 PM to	Section A : New Topic		Reasoning & Aptitude (All Topics)	
•	6 th Nov, 2022	5:00 PM	Section B : New Topic		Engineering Mathematics (All Topics)	100
0	Sunday	5:00 PM to	Section A: New Topic		Geo-technical & Foundation Engineering (All Topics)	
2.		6:30 PM	Section B : New Topic		Environmental Engineering (All Topics)	150
	13 th Nov, 2022 Sunday		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 (All Topics)	
			Section A: New Topic		Solid Mechanics (All Topics)	
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	l	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)	
5.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 3		Basics of Energy and Environment (All Topics)	100
		5.0011	Section C : Repeat Topic of Test 3		Basics of Material Science (All Topics)	
	20 th Nov, 2022 Sunday		Section A: New Topic		Design of Steel Structure (All Topics) + Surveying and Geology (All Topics)	150
•		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	
			Section A: New Topic		Basics of Project Management (All Topics)	
7.		4:00 PM to 5:00 PM 5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 5		General Principles of Design, Drawing, Importance of Safety (All Topics)	100
			Section C : Repeat Topic of Test 3		Basics of Energy and Environment (All Topics)	-
	27 th Nov, 2022 Sunday		Section A: New Topic		CPM PERT + Hydrology and Water Resource Engineering (All Topics)	150
8.			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	1	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
	4 th Dec, 2022		Section C : Repeat Topic of Test 5		General Principles of Design, Drawing, Importance of Safety (All Topics)	
	Sunday		Section A: New Topic		Structural Analysis (All Topics)	_
10.		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 including 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	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
		5.00110	Section C : Repeat Topic of Test 7	Basics of Project Management (All Topics)	
	11 th Dec, 2022 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)	
13.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	100
		51001111	Section C : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	
	18 th Dec, 2022 Sunday		Section A: New Topic	Flow of fluids, hydraulic machines and hydro power (All Topics)	1
14.	201100)	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, (All Topics) economic and industrial development	
15.		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
		5.0011	Section C : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	
	25 th Dec, 2022 Sunday		Section A: New Topic	Transportation Engineering + Building Materials (All Topics)	
10		5:00 PM to	Section B : Repeat Topic of Test 14	Flow of fluids, hydraulic machines and hydro power (All Topics)	150
16 .		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
17.	8 th Jan, 2023	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.	15 th Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 3	Paper- I	200
20 .	Sunday	2 PM to 5 PM	Full Syllabus Test 4	Paper- II	300
21.	22 nd Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 5	Paper- I	200
22.	Sunday	2 PM to 5 PM	Full Syllabus Test 6	Paper- II	300
23.	29 th Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 7	Paper- I	200
24.	Sunday	2 PM to 5 PM	Full Syllabus Test 8	Paper- II	300



MECHANICAL ENGINEERING

Test No.	Date/Day	Time		Subject	Marks
		4:00 PM to	Section A : New Topic	Reasoning & Aptitude (All Topics)	
1.	6 th Nov, 2022	5:00 PM	Section B : New Topic	Engineering Mathematics (All Topics)	100
•	Sunday	5:00 PM to	Section A: New Topic	Thermodynamics (All Topics)	
2.		6:30 PM	Section B : New Topic	Refrigeration and Air-conditioning (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 (All Topics)	
	13 th Nov, 2022		Section A: New Topic	Production Engineering & Material Science (All Topics)	
4.	Sunday	5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 2	Thermodynamics - 1 (Part Syllabus) Topics: Thermodynamic systems and processes; properties of pure substance; Zeroth, First and Second Laws of Thermodynamics; Entropy.	150
			Section C : Repeat Topic of Test 2	Refrigeration and Air-conditioning - 1 (Part Syllabus) Vapour compression refrigeration, Refrigerants and Working cycles, Compressors, Condensers, Evaporators 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)	100
5.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 3	Basics of Energy and Environment (All Topics)	
		3.00 FIN	Section C : Repeat Topic of Test 3	Basics of Material Science (All Topics)	
	20 th Nov, 2022 Sunday	5:00 PM to 6:30 PM	Section A: New Topic	Fluid Mechanics and Turbo Machinery (All Topics)	
•			Section B : Repeat Topic of Test 4	Production Engineering & Material Science - 1 (Part Syllabus) Topics: Metal joining, metal casting-Metal forming, computer Integrated manufacturing, Basic Crystallography, Heat Treatment, Ferrous and Non Ferrous Metals, Non metallic materials,	150
6.			Section C : Repeat Topic of Test 2	Thermodynamics - 2 (Part Syllabus) + Refrigeration and Air-conditioning - 2 (Part Syllabus) Topics: Irreversibility and availability, Otto, Diesel and Dual cycles, analysis of thermodynamic cycles related to energy conversion: ideal and real gases; compressibility factor; Gas mixtures + Vapour jet, thermo electric and Vortex tube refrigeration. Psychometric properties and processes, Comfort chart, Comfort and industrial air conditioning, Load calculations and Heat pumps	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 (All Topics)	100
		5.0011	Section C : Repeat Topic of Test 3	Basics of Energy and Environment (All Topics)	-
	27 th Nov, 2022		Section A: New Topic	Heat Transfer (All Topics) + IC Engines (All Topics)	150
8.	Sunday	5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 6	Fluid Mechanics and Turbo Machinery - 1 (Part Syllabus) Topics: Basic Concepts and Properties of Fluids, Manometry, Fluid Statics, Buoyancy, Equations of Motion, Bernoulli's equation and applications + Reciprocating and Rotary pumps, Pelton wheel, Kaplan and Francis Turbines, velocity diagrams, Impulse and Reaction principles	
			Section C : Repeat Topic of Test 4	Production Engineering & Material Science - 2 (Part Syllabus) Topics: Machining and machine tool operations, Limits, fits and tolerances, Metrology and inspection + Alloys and Phase diagrams, Basics of Nano-materials, Mechanical Properties & Testing, Corrosion prevention &control	
			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
			Section C : Repeat Topic of Test 5	General Principles of Design, Drawing, Importance of Safety (All Topics)	
	4 th Dec, 2022		Section A: New Topic	Strength of Materials & Engineering Mechanics (All Topics)	1
10 .	Sunday	5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 8	Heat Transfer - 1 [Part Syllabus] + IC Engine - 1 [Part Syllabus] Topics: Modes of heat transfer, Steady and unsteady heat conduction, Thermal resistance, Fins, Free and forced convection, Correlations for convective heat transfer + SI and CI Engines, Engine Systems and Components.	150
			Section C : Repeat Topic of Test 6	Fluid Mechanics and Turbo Machinery - 2 [Part Syllabus] Topics : Viscous flow of incompressible fluids, Laminar and Turbulent flows, Flow through pipes and head losses in pipes. + Steam and Gas Turbines, Theory of Jet Propulsion – Pulse jet and Ram Jet Engines, Reciprocating and Rotary Compressors – Theory and Applications	

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Test No.	Date/Day	Time		Subject	Marks
			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
		5.00 T M	Section C : Repeat Topic of Test 7	Basics of Project Management (All Topics)	
	11 th Dec, 2022 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 & Engineering Mechanics - 1 (Part Syllabus) Topics: Stresses and Strains-Compound Stresses and Strains, Bending Moment and Shear Force Diagrams, Thin and thick Cylinders, Spheres. + Analysis of System of Forces,	150
			Section C : Repeat Topic of Test 8	Heat Transfer - 2 (Part Syllabus) + IC Engine - 2 (Part Syllabus) Topics: Radiative heat transfer, Radiation heat transfer coefficient; boiling & condensation, Heat exchanger performance analysis + Performance characteristics and testing of IC Engines; Fuels; Emissions and Emission Control.	
			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
		5.001 M	Section C : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	
	18 th Dec, 2022 Sunday		Section A: New Topic	Renewable Sources of Energy + Industrial and Maintenance Engineering (All Topics) Robotics & Mechatronics	
14.	Sunday	5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 12	Theory of Machines - 1 (Part Syllabus) Topics: Types of Kinematics Pair & analysis Mobility, Inversions, Velocity & Acceleration Analysis of Planar Mechanisms, Dynamic Analysis – Slider – crank mechanisms, turning moment computations, flywheel, Governors, Free and forced vibration of undamped and damped SDOF systems, Transmissibility Ratio, Vibration Isolation, Critical Speed of Shafts.	150
			Section C : Repeat Topic of Test 10	Strength of Materials & Engineering Mechanics - 2 (Part Syllabus) Topics: Theory of Bending Stresses, Slope and deflection, Torsion, Friction, Centroid and Centre of Gravity.	
46	25 th Dec, 2022	4:00 PM to	Section A: New Topic	Current issues of national and international importance relating to social, (All Topics) economic and industrial development	
15.		5:00 PM	Section B : Repeat Topic of Test 13	Standards and Quality practices in production, construction, maintenance & services (All Topics)	100
			Section C : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	
			Section A: New Topic	Machine Design + Power Plant Engineering (All Topics)	
16.	Sunday	5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 14	Renewable Sources of Energy + Industrial and Maintenance Engineering (All Topics) Robotics & Mechatronics	150
		0.30 PM	Section C : Repeat Topic of Test 12	Theory of Machines - 2 [Part Syllabus] Topics : CAMs with uniform acceleration and retardation, cycloidal motion, oscillating followers; Gears – Geometry of tooth profiles, Law of gearing, Involute profile, Interference, Helical, Spiral and Worm Gears, Gear Trains- Simple, compound & Epicyclic; balancing of Revolving & Reciprocating masses, Gyroscopes & its effect on automobiles, ships & aircrafts,	
17.	8 th Jan, 2023	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 .	15 th Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 3	Paper- I	200
20 .	Sunday	2 PM to 5 PM	Full Syllabus Test 4	Paper- II	300
21 .	22 nd Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 5	Paper- I	200
22.	Sunday	2 PM to 5 PM	Full Syllabus Test 6	Paper- II	300
23.	29 th Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 7	Paper- I	200
24.	Sunday	2 PM to 5 PM	Full Syllabus Test 8	Paper- II	300



ELECTRICAL ENGINEERING

Test No.	Date/Day	Time			Subject	Marks
		4:00 PM to	Section A : New Topic	1	Reasoning & Aptitude (All Topics)	1
1.	6 th Nov, 2022	5:00 PM	Section B : New Topic		Engineering Mathematics (All Topics)	100
	Sunday	5:00 PM to	Section A: New Topic	1	Electrical Circuits (All Topics)	
2.		6:30 PM	Section B : New Topic		Digital Electronics + Microprocessors (All Topics)	150
			Section A: New Topic	1	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 (All Topics)	
	13 th Nov, 2022		Section A: New Topic	1	Control Systems + Engineering Mathematics (All Topics)	
4.	Sunday	5:00 PM to 6:30 PM	Section B : Repeat Topic of Test 2		Electrical Circuits - 1 (Part Syllabus) 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	I	General Principles of Design, Drawing, Importance of Safety (All Topics)	
5.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 3	1	Basics of Energy and Environment (All Topics)	100
			Section C : Repeat Topic of Test 3		Basics of Material Science (All Topics)	
	20 th Nov, 2022 Sunday	5:00 PM to 6:30 PM	Section A: New Topic	1	Electrical Machines (All Topics)	1
6.			Section B : Repeat Topic of Test 4		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.	
			Section A: New Topic	I	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
		5.0011	Section C : Repeat Topic of Test 3		Basics of Energy and Environment (All Topics)	
			Section A: New Topic	1	Power Systems (All Topics)	1
	27 th Nov, 2022 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, Iead and Iead-Iag 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
			Section C : Repeat Topic of Test 5		General Principles of Design, Drawing, Importance of Safety (All Topics)	1
			Section A: New Topic		Power Electronics and Drives (All Topics)	
10.	4 th Dec, 2022 Sunday	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	

Admission Open Enroll Now

Test No.	Date/Day	Time		Subject	Mark
			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
•••			Section C : Repeat Topic of Test 7	Basics of Project Management (All Topics)	-4
	11 th Dec, 2022		Section A: New Topic	BEE + Analog Electronics + Electrical & Electronic Measurements (All Topics)	1
12.	Sunday	5:00 PM to		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		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
-		5.00 F M	Section C : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	
			Section A: New Topic	Systems & Signal Processing + Communication Systems (All Topics)	
14.	18 th Dec, 2022 Sunday	5:00 PM to 6:30 PM	·	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
				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.	
	- 25 th Dec, 2022 -			Current issues of national and international importance relating to social, (All Topics) economic and industrial development	1
15.		4:00 PM to 5:00 PM		Standards and Quality practices in production, construction, maintenance & services (All Topics)	100
			Section C : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	-1
	25 [™] Dec, 2022 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 (All Topics)	
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 transformer, digital voltmeters and multi-meters, phase, time and frequency measurement, -meters, oscilloscoeps, potentiometric recorders, error analysis, basics of sensors, transducers, basics of data acquisition systems,	150
17.	8 th Jan, 2023	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.	15 th Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 3	Paper- I	200
20.	Sunday	2 PM to 5 PM	Full Syllabus Test 4	Paper- II	300
21.	22 nd Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 5	Paper- I	200
22.	Sunday	2 PM to 5 PM	Full Syllabus Test 6	Paper- II	300
23.	29 th Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 7	Paper- I	200
24.	Sunday	2 PM to 5 PM	Full Syllabus Test 8	Paper- II	300



ELECTRONICS & TELECOM ENGG.

Test No.	Date/Day	Time			Subject	Mark
		4:00 PM to	Section A : New Topic	1	Reasoning & Aptitude (All Topics)	
1.	6 th Nov, 2022	5:00 PM	Section B : New Topic		Engineering Mathematics (All Topics)	100
•	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 (All Topics)	1
	13 th Nov, 2022		Section A: New Topic	I	Control Systems + Microprocessors and Microcontroller (All Topics)	1
4.	Sunday	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.	
			Section A: New Topic		General Principles of Design, Drawing, Importance of Safety (All Topics)	
5.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 3		Basics of Energy and Environment (All Topics)	100
	20 th Nov, 2022		Section C : Repeat Topic of Test 3		Basics of Material Science (All Topics)	
	Sunday	5:00 PM to 6:30 PM	Section A: New Topic		Electronic Devices & Circuits + Analog Circuits (All Topics)	
6.			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
_			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
		5.0011	Section C : Repeat Topic of Test 3		Basics of Energy and Environment (All Topics)	
	27 th Nov, 2022		Section A: New Topic	1	Analog and Digital Communication Systems (All Topics)	
8.	Sunday	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 didodes. Biasing & stability of BJT & JFET amplifier circuits. Small signal equivalent circuits of BJTS and FETs, single stage amplifiers.	150
		Sec	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.		4:00 PM to 5:00 PM	Section B : Repeat Topic of Test 7		Basics of Project Management (All Topics)	100
			Section C : Repeat Topic of Test 5		General Principles of Design, Drawing, Importance of Safety (All Topics)	
	4 th Dec, 2022 Sunday		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 1 111	Section C : Repeat Topic of Test 6		Electronic Devices & Circuits-2 (Part Syllabus) + Analog Circuits Topics -2 (Part Syllabus) Topics : BJT, JFETs, MOSFETs basics and characteristics + Multi-stage, Feedback amplifiers, oscillators and other circuits. Basics of linear ICs, operational amplifiers and their applications-linear & non-linear, Active filters, timers, multipliers, wave shaping	

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Test No.	Date/Day	Time		Subject	Mark
			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
		5.00 T M	Section C : Repeat Topic of Test 7	Basics of Project Management (All Topics)	
	11 th Dec, 2022		Section A: New Topic	Advanced Communication + Electronic Measurements and Instrumentation (All Topics)	
12.	Sunday	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, CTF1 and their application to continuous time systems. Laplace transform, its applications and realization of continuous time systems + Electro-magnetism, Faradays's & Lenz's laws, induced EWF 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
			Section C : Repeat Topic of Test 9	Ethics and values in Engineering profession (All Topics)	
	toth D 2022		Section A: New Topic	Electromagnetics + Computer Organization and Architecture (All Topics)	
14.	18 th Dec, 2022 Sunday	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, OSI model, security Basic packet multiplead streams and scheduling, protocols (TCP/TCPIP). + 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, measurements 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.	
	25 th Dec, 2022		Section A: New Topic	Current issues of national and international importance relating to social, (All Topics) economic and industrial development	
15.		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
			Section C : Repeat Topic of Test 11	Information and Communication Technologies (ICT) (All Topics)	
	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)	-
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
17.	9 th Ion 2022	10 AM to 12 Noon	Full Syllabus Test 1	Paper- I	200
18.	8''' Jan, 2023 Sunday	2 PM to 5 PM	Full Syllabus Test 2	Paper- II	300
19 .	15 th Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 3	Paper- I	200
20 .	Sunday	2 PM to 5 PM	Full Syllabus Test 4	Paper- II	300
21.	22 nd Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 5	Paper- I	200
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23.	29 th Jan, 2023	10 AM to 12 Noon	Full Syllabus Test 7	Paper- I	200
24	Sunday	2 PM to 5 PM	Full Syllabus Test 8	Paper- II	300



- Tests will be conducted as per the above-given schedule.
- Answer Key/Solutions will be uploaded on **Sunday 7:00 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 remain absent for the tests. If you miss the tests due to any unavoidable circumstances, then you can appear the test 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 these students (Absentees)