



MADE EASY

India's Best Institute for IES, GATE & PSUs

Launches



Key Features :

- 1 300 Hrs. of classes with comprehensive and in-depth discussion on conventional questions.
- 2 Classes to be taken by the group of senior teachers only.
- 3 Well designed comprehensive Mains Exclusive workbooks for every subject which contain 2 sections i.e. unsolved and solved (for self practice).
- 4 Special sessions on improving motivation, writing skills, time management & presentation skills by B. Singh Sir.
- 5 Dynamic test series on every Sunday having test of 3 hours in synchronisation with the syllabus taught in the classes exactly on the UPSC pattern and environment.
- 6 Test Series contains **Repeat Topics** and **New Topics** to maintain continuity in study .
- 7 Facility to cross check the evaluated answer sheet & access to see the answer sheet of top scorer of every test to compare your performance.
- 8 There is provision to interact with teachers, to write your missed classroom tests & to discuss doubts, through online support using "Facebook ++" (A social learning platform of MADE EASY).
- 9 To create motivational environment & learning competitive environment, MADE EASY introduces reward point system for each student in every test. There will be provision of reward for top rankers in topicwise tests and in full syllabus tests.
- 10 There is option to join for Mains Classroom Program with Mains Test Series or Only Mains Exclusive Test Series.

Delhi : Batch Schedule

Stream	Centre	Date	Timing
CE	IGNOU Road Centre	21st Feb, 2017	3:00 pm to 9:00 pm (Flexible)
ME	Ghitorni Centre	15th Feb, 2017	8:00 am to 2:00 pm
EE	Chaudhary House	21st Feb, 2017	3:00 pm to 9:00 pm
E&T	Lado Sarai Centre	15th Feb, 2017	8:00 am to 2:00 pm

Fee Structure

Program	MADE EASY students	Non MADE EASY students
Mains Classroom Program + Mains Test Series	₹ 8,000	₹ 11,000
Mains Test Series	₹ 1,000	₹ 2,000

Hostel Facility

There are many private hostels (Separate for girls and boys) within walking distance from the institution. Students can easily find accommodation on their own. MADE EASY staff may help you in locating the same. Moreover, there are good food provisions and private mess for students, who provide their services on monthly/daily basis.

Test Venues

Delhi Centre

- CE** ▶ **IGNOU Road Centre** : Hundred Million, 6, Dang Complex, IGNOU Road, Near Saket metro station, ND-30; Ph: 011-29534645, 9599022014
- ME** ▶ **Ghitorni Centre**: Khasra No. 354, 100 Feet Road, Near Ghitorni Metro Station, New Delhi-30; Ph: 09599022013
- EE** ▶ **Choudhary House**: 32/1, Opp. Vijay Mandal Enclave, Gate No. 1, Kalu Sarai, New Delhi-16; Ph: 011-65470057
- E&T** ▶ **Lado Sarai Centre - II**: F-130, SP House, Near Kali Mandir, Lado Sarai New Delhi - 110030; Ph: 9810477590

Other Centres

- Noida (All Streams)** : D-28, Sector-63, Noida, Uttar Pradesh; Ph: 0120-6524612, 08860378009
- Hyderabad (All Streams)** : 5-1-744, Bank Street, Koti, Hyderabad; Ph: 040-24652324, 040-66774612
- Jaipur (All Streams)** : AB-559, Kings Road, Nirman Nagar, Jaipur, Rajasthan; Ph: 0141-4024612, 09166811228
- Bhopal (All Streams)** : Plot No. 46, ZONE - 2, M.P. Nagar, Bhopal - 462021; Ph: 0755-4004612, 08120035652
- Indore (All Streams)** : Gemini Mall, Opp. C21 Mall, Vijay Nagar; Ph: 07314029612, 07566669612
- Lucknow (All Streams)** : B1/67, Sector P, Aliganj, Lucknow; Ph: 09919111168, 08400029422
- Kolkata (All Streams)**: 755, Anandapur, Next to Fortis Hospital, Off-EM Bypass, Kolkata; Ph: 033-68888880, 08282888880
- Patna (All Streams)** : Nutan Complex, Near Krrish Hyundai, Main Road Kankarbagh, Patna; Ph: 0612-2356616, 09955991166
- Bhubaneswar (All Streams)** : B-61 A&B, Janpath, Saheed Nagar; Ph: 9040999888, 0674-6999888
- Pune (All Streams)** : Plot No. 84, 2nd Floor, Business Bay near RTO, Shivaji Nagar, Pune; Ph: 09168884343

Important Note

For those students who are appearing ESE-2017 mains Test Series at Classrooms

Test will conducted on	Every Sunday as per schedule. • (Thursday in case of Test No. 9 and 10)
Test solutions will be uploaded on www.madeeasy.in	Every Tuesday at 6:00 p.m • (Saturday in case of Test No. 9 and 10)
Test results will be updated on www.madeeasy.in	Every Friday at 6:00 p.m • (Tuesday in case of Test No. 9 and 10)
Students can see their evaluated answer sheets (This facility is available only at Delhi centre)	Saturday from 10:00 am to 6:00 p.m at corporate Office (Kalusarai, Delhi) Concerned Person : Mr.Suraj

For those students who are appearing ESE-2017 mains Test Series through Online mode

Test papers will be available on facebook ++ portal	Every Sunday as per schedule • (Thursday in case of Test No. 9 and 10)
Test solutions will be uploaded on facebook ++ portal	Every Tuesday at 6:00 p.m • (Saturday in case of Test No. 9 and 10)
Test results will be updated on website	Every Friday at 6:00 p.m • (Tuesday in case of Test No. 9 and 10)
Those students who are appearing ESE-2017 mains Test Series through Online mode has to upload their answers on	Every Monday before 6:00 pm. Answer booklets uploaded after Monday(6:00 pm) will not be evaluated. (Friday in case of Test No. 9 and 10)

Test Pattern

Test 1 (New Topics) Total Marks : 300 Duration : 3 Hrs	Section-A : New Topic Total 8 Questions of 25 Marks each Attempt any 6 questions (150 Marks)	Section-B : New Topic Total 8 Questions of 25 Marks each Attempt any 6 questions (150 Marks)	Section-C NA
Test 2-8 (New Topics & Repeat Topics) Total Marks : 300, Duration : 3 Hrs	Section-A : New Topic Total 8 Questions of 25 Marks each Attempt any 6 questions (150 Marks)	Section-B : Repeat Topic Total 4 Questions of 25 Marks each Attempt any 3 questions (75 Marks)	Section-C : Repeat Topic Total 4 Questions of 25 Marks each Attempt any 3 questions (75 Marks)
Test 9 (Full Syllabus Test) Total Marks : 300, Duration : 3 Hrs	Complete Syllabus of Paper-I Total 8 Questions of 50 Marks each Attempt any 6 questions	Test 10 (Full Syllabus Test) Total Marks : 300, Duration : 3 Hrs	Complete Syllabus of Paper-II Total 8 Questions of 50 Marks each Attempt any 6 questions
Test 11 (Full Syllabus Test) Total Marks : 300, Duration : 3 Hrs	Complete Syllabus of Paper-I Total 8 Questions of 50 Marks each Attempt any 6 questions	Test 12 (Full Syllabus Test) Total Marks : 300, Duration : 3 Hrs	Complete Syllabus of Paper-II Total 8 Questions of 50 Marks each Attempt any 6 questions

ONLINE FACILITY

"Write Mains Test Series from Your Home " Through Online Mode Using "Face book ++ "

A social learning platform of MADE EASY

- Visit : www.madeeasy.in, Click on MADE EASY Facebook++ icon.
- Register yourself, if you are new user. Current session student of MADE EASY will be auto-registered. They shall get login ID and password on their e-mail.
- Click ESE 2017 Mains Test Series in left pane and download the question paper you want to write.
- Write you answer in plane A4 sheet. Write page number at top left corner of every page.
- Scan these documents (You can take snap of these sheets by good resolution mobile phone also).
- Upload the documents in same place. You can find **Upload Solution** button against every paper.
- Make a zip folder of the documents and click on the submit button.
- The folder can contains jpeg, pdf, doc, png. It should not be greater than 100 MB.

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Incentives & Rewards for Top Rankers

The Top Rankers of each branch will be rewarded in following 3 categories :

1. **Best 5 scorers in topic wise tests :** Top scorers with cumulative maximum reward points will be rewarded . Reward points of best 7 tests out of total 8 topic wise tests will be considered .

In this category the rewards will be as follows :

Rank-1 ₹ 10,000

Rank-2 ₹ 8,000

Rank-3 ₹ 6,000

Rank-4 ₹ 4,000

Rank-5 ₹ 2,000

2. **Top 3 Scorers of each branch will be rewarded having best scores in all 4 full syllabus tests :**

In this category the rewards will be as follows:

Rank-1 ₹ 10,000

Rank-2 ₹ 8,000

Rank-3 ₹ 6,000

3. **Over all Topper of each branch in part syllabus (best 7 tests) and full syllabus tests will be rewarded .**

In this category topper will get Rs. 15,000 as reward.

Rank-1 ₹ 15,000

Note :

1. Reward points will be equal to the marks obtained by a candidate. Cumulative reward points for all the candidates will be displayed after each test .
2. For reward scheme only those candidates will be eligible who will write test series at MADE EASY centres. Online mode candidates will not be eligible.
3. In any dispute MADE EASY decision will be final.



MADE EASY

India's Best Institute for IES, GATE & PSUs

ESE 2017 Mains Test Series

**Civil
Engineering**

**8
Subjectwise Tests**

**4
Full Syllabus Tests**

**12
Total Tests**

Test No.	Date/Day	Subject	Marks	
1.	12 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section 1: New Topic Strength of Materials (All Topics)	150	
		Section 2 : New Topic Environmental Engineering (All Topics)	150	
2.	19 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Geo-technical & Foundation Engineering (All Topics)	150	
		Section B : Repeat Topic of Test 1 Strength of Materials - 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	75	
		Section C : Repeat Topic of Test 1 Environmental Engineering -1 (Part Syllabus) Topics: Water supply Engineering, Air, Noise pollution and ecology	75	
3.	26 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Structural Analysis (All Topics)	150	
		Section B : Repeat Topic of Test 1 Environmental Engineering - 2 (Part Syllabus) + Strength of Materials - 2 (Part Syllabus) Topics: Waste water engg, soild waste management + Torsion, Principle stress, theories of failure & shear stress	75	
		Section C : 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	75	
4.	2 nd Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Design of concrete and Masonry Structures (All Topics)	150	
		Section B : Repeat Topic of Test 2 Structural Analysis - 1 (Part Syllabus) Topics: Analysis of determinate and indeterminate structures (beams and plane frames only), suspended cables	75	
		Section C : Repeat Topic of Test 3 Geo-technical & Foundation Engineering - 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.	75	
5.	9 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Flow of fluids, hydraulic machines and hydro power (All Topics)	150	
		Section B : Repeat Topic of Test 3 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.	75	
		Section C : Repeat Topic of Test 4 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)	75	
6.	16 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Design of Steel Structure + Surveying and Geology (All Topics)	150	
		Section B : Repeat Topic of Test 4 Flow of fluids, hydraulic machines and hydro power - 1 (Part Syllabus) Topics: Fluid properties; Dimensional Analysis and Modeling; Fluid dynamics including flow kinematics and measurements; Flow net; Viscosity, Boundary layer and control, Drag, Lift, Pipe networks	75	
		Section C : Repeat Topic of Test 5 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	75	
7.	23 rd Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic CPM PERT + Hydrology and Water Resource Engineering (All Topics)	150	
		Section B : Repeat Topic of Test 5 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	75	
		Section C : Repeat Topic of Test 6 Flow of fluids, hydraulic machines and hydro power - 2 (Part Syllabus) Topics: Principles in open channel flow, Flow controls, Hydraulic jump, Surges, Various pumps, Air vessels, Hydraulic turbines – types, classifications & performance parameters; Power house – classification and layout, storage, pondage, control of supply.	75	
8.	30 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Transportation Engineering + Building Materials (All Topics)	150	
		Section B : Repeat Topic of Test 6 CPM PERT + Hydrology and Water Resource Engineering (All Topics) All syllabus of CPM PERT and Hydrology and water resource engineering	75	
		Section C : Repeat Topic of Test 7 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	75	
9.	4 th May, 2017 Thursday	Full Syllabus Test	Paper- I	300
10.	10 AM- 1 PM : FST-1 2 PM - 5 PM : FST-2	Full Syllabus Test	Paper- II	300
11.	7 th May, 2017 Sunday	Full Syllabus Test	Paper- I	300
12.	10 AM- 1 PM : FST-1 2 PM - 5 PM : FST-2	Full Syllabus Test	Paper- II	300

Test Venue :

Corporate Office:
Mains Batch : A

IGNOU Centre:
Mains Batch B,C

IGNOU Centre:
Students enrolled only for ESE-2017 Mains Test Series

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ESE 2017 Mains Test Series

Mechanical Engineering

8

Subjectwise Tests

4

Full Syllabus Tests

12

Total Tests

Test No.	Date/Day	Subject		Marks
1.	12 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic	Strength of Materials & Mechanics (All Topics)	150
		Section B : New Topic	Theory of Machines (All Topics)	150
2.	19 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic	Thermodynamics + Refrigeration and Air-conditioning (All Topics)	150
		Section B : Repeat Topic of Test 1	Strength of Materials & 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,	75
		Section C : Repeat Topic of Test 1	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.	75
3.	26 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic	Production Engineering & Material Science (All Topics)	150
		Section B : Repeat Topic of Test 1	Strength of Materials & Mechanics - 2 (Part Syllabus) + Theory of Machines - 2 (Part Syllabus) Topics: Theory of Bending Stresses, Slope and deflection, Torsion, Friction, Centroid and Centre of Gravity, + 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 and Epicyclic; balancing of Revolving & Reciprocating masses, Gyroscopes & its Effect on automobiles, ships and aircrafts,	75
		Section C : Repeat Topic of Test 2	Thermodynamics - 1 (Part Syllabus) + Refrigeration and Air-conditioning - 1 (Part Syllabus) Topics: Thermodynamic systems and processes; properties of pure substance; Zeroth, First and Second Laws of Thermodynamics; Entropy, + Vapour compression refrigeration, Refrigerants and Working cycles, Compressors, Condensers, Evaporators and Expansion devices, Other types of refrigeration systems like Vapour Absorption,	75
4.	2 nd Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic	IC Engine + Power Plant (All Topics)	150
		Section B : 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	75
		Section C : Repeat Topic of Test 3	Production Engineering & Material Science - 1 (Part Syllabus) Topics: Metal casting-Metal forming, computer Integrated manufacturing, Basic Crystallography, Heat Treatment, Ferrous and Non Ferrous Metals, Non metallic materials,	75
5.	9 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic	Fluid Mechanics and Turbo Machinery (All Topics)	150
		Section B : Repeat Topic of Test 3	Production Engineering & Material Science - 2 (Part Syllabus) Topics: Metal Joining, 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	75
		Section C : Repeat Topic of Test 4	IC Engine - 1 (Part Syllabus) + Power Plant - 1 (Part Syllabus) Topics: SI and CI Engines, Engine Systems and Components,+ Rankine and Brayton cycles with regeneration and reheat, Fuels and their properties, Flue gas analysis, Boilers	75
6.	16 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic	Heat Transfer (All Topics)	150
		Section B : Repeat Topic of Test 4	IC Engine - 2 (Part Syllabus) + Power Plant - 2 (Part Syllabus) Topics: Performance characteristics and testing of IC Engines; Fuels; Emissions and Emission Control. + steam turbines and other power plant components like condensers, air ejectors, electrostatic precipitators and cooling towers – their theory and design, types and applications	75
		Section C : Repeat Topic of Test 5	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,,	75
7.	23 rd Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic	Renewable Sources of Energy + Industrial and Maintenance Engineering (All Topics)	150
		Section B : Repeat Topic of Test 5	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	75
		Section C : Repeat Topic of Test 6	Heat Transfer - 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,.	75
8.	30 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic	Machine Design + Mechatronics & Robotics (All Topics)	150
		Section B : Repeat Topic of Test 6	Heat Transfer - 2 (Part Syllabus) Topics : Radiative heat transfer, Radiation heat transfer coefficient; boiling & condensation, Heat exchanger performance analysis	75
		Section C : Repeat Topic of Test 7	Renewable Sources of Energy + Industrial and Maintenance Engineering (All Topics)	75
9.	4 th May, 2017 Thursday	Full Syllabus Test	Paper- I	300
10.	10 AM- 1 PM : FST-1 2 PM - 5 PM : FST-2	Full Syllabus Test	Paper- II	300
11.	7 th May, 2017 Sunday	Full Syllabus Test	Paper- I	300
12.	10 AM- 1 PM : FST-1 2 PM - 5 PM : FST-2	Full Syllabus Test	Paper- II	300

Test Venue :

Saket-1 Centre:
Mains Batch A,C

Ghitorni Centre:
Mains Batch B,D

Ghitorni Centre:
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ESE 2017 Mains Test Series

**Electrical
Engineering**

8
Subjectwise Tests

4
Full Syllabus Tests

12
Total Tests

Test No.	Date/Day	Subject	Marks
1.	12 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Electrical Circuits (All Topics)	150
		Section B : New Topic Digital Electronics (All Topics)	150
2.	19 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Control Systems + Microprocessors (All Topics)	150
		Section B : Repeat Topic of Test 1 Electrical Circuits - 1 (Part Syllabus) Topics: Circuit elements, network graph, 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.	75
		Section C : Repeat Topic of Test 1 Digital Electronics - 1 (Part Syllabus) Topics: Boolean Algebra & uses, Logic gates, Combinatorial circuits design& applications, Basics of multiplexers.	75
3.	26 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Power Systems (All Topics)	150
		Section B : Repeat Topic of Test 1 Electrical Circuits - 2 (Part Syllabus) + Digital Electronics - 2 (Part Syllabus) Topics: Transient response of DC and AC networks, Basic filter concepts, two-port networks, three phase circuits, Magnetically coupled circuits. Sequential circuits design& applications, counters, registers, memories, A/D-D/A converters.	75
		Section C : Repeat Topic of Test 2 Control Systems - 1 (Part Syllabus) + Microprocessors - 1 (Part Syllabus) Topics: Principles of feedback, transfer function, block diagrams and signal flow graphs, steady-state errors, transforms and their applications; Routh-hurwitz criterion, root loci. Microprocessor basics- interfaces and applications.	75
4.	2 nd Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Electrical Machines (All Topics)	150
		Section B : Repeat Topic of Test 2 Control Systems - 2 (Part Syllabus) + Microprocessors - 2 (Part Syllabus) Topics: Nyquist techniques, Bode plots, lag, lead and lead-lag compensation, stability analysis, transient and frequency response analysis, state space model, state transition matrix, controllability and observability, linear state variable feedback, PID and industrial controllers. Microprocessor basics- interfaces and applications.	75
		Section C : Repeat Topic of Test 3 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, symmetrical components, fault analysis, principles of protection systems, basics of solid state relays and digital protection; Circuit breakers.	75
5.	9 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Power Electronics & Drives + Engineering Mathematics (All Topics)	150
		Section B : Repeat Topic of Test 3 Power Systems - 2 (Part Syllabus) Topics: Radial and ring-main distribution systems, Matrix representation of power systems, load flow analysis, voltage control and economic operation, System stability concepts, Swing curves and equal area criterion. HVDC transmission and FACTS concepts, Concepts of power system dynamics, distributed generation, solar and wind power, smart grid concepts, environmental implications, fundamentals of power economics.	75
		Section C : Repeat Topic of Test 4 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.	75
6.	16 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Basic Electronics Engg. + Analog Electronics + Electrical & Electronic Measurements (All Topics)	150
		Section B : Repeat Topic of Test 4 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	75
		Section C : Repeat Topic of Test 5 Power Electronics & Drives + Engineering Mathematics - 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 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.	75
7.	23 rd Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Systems & Signal Processing + Communication Systems (All Topics)	150
		Section B : Repeat Topic of Test 5 Power Electronics & Drives - 2 (Part Syllabus) + Engineering Mathematics - 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 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.	75
		Section C : Repeat Topic of Test 6 Basic Electronics Engineering -1 (Part Syllabus) + Analog Electronics - 1 (Part Syllabus) + Electrical & Electronic Measurements - 1 (Part Syllabus) Topics: Basics and characteristics of diodes, BJT, FET and MOSFETs, different types of amplifiers, equivalent circuits. 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.	75
8.	30 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Electromagnetic Theory + Computer Fundamentals + Electrical Materials (All Topics)	150
		Section B : Repeat Topic of Test 6 Basic Electronics Engineering - 2 (Part Syllabus) + Analog Electronics - 2 (Part Syllabus) + Electrical & Electronic Measurements - 2 (Part Syllabus) Topics: Operational amplifiers - characteristics and applications, oscillators and other circuits, feedback amplifiers, frequency response of transistor amplifiers Instrument transformers, digital voltmeters and multi-meters, phase, time and frequency measurement, q-meters, oscilloscopes, potentiometric recorders, error analysis, basics of sensors, transducers, basics of data acquisition systems,	75
		Section C : Repeat Topic of Test 7 Systems & Signal Processing + Communication Systems (All Topics)	75
9.	4 th May, 2017 Thursday	Full Syllabus Test Paper- I	300
10.	10 AM- 1 PM : FST-1 2 PM - 5 PM : FST-2	Full Syllabus Test Paper- II	300
11.	7 th May, 2017 Sunday	Full Syllabus Test Paper- I	300
12.	10 AM- 1 PM : FST-1 2 PM - 5 PM : FST-2	Full Syllabus Test Paper- II	300

Test Venue :

Lado Sarai-2 Centre:
Mains Batch A

Choudhary House:
Mains Batch B

Choudhary House:
Students enrolled only for ESE-2017 Mains Test Series

Admission Open

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Home



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ESE 2017

Mains Test Series

Electronics & Telecom Engg.

8
Subjectwise Tests

4
Full Syllabus Tests

12
Total Tests

Test No.	Date/Day	Subject	Marks
1.	12 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Network Theory (All Topics)	150
		Section B : New Topic Digital Circuits (All Topics)	150
2.	19 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Control Systems + Microprocessors and Microcontroller (All Topics)	150
		Section B : Repeat Topic of Test 1 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.	75
		Section C : Repeat Topic of Test 1 Digital Circuits - 1 (Part Syllabus) Topics: Boolean Algebra & uses, Logic gates, Combinatorial circuits design& applications, Basics of multiplexers. MUX/ROM/PLA based design.	75
3.	26 th Mar, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Analog and Digital Communication Systems (All Topics)	150
		Section B : Repeat Topic of Test 1 Network Theory - 2 (Part Syllabus) + Digital Circuits - 2 (Part Syllabus) Topics: 2-port network parameters-driving point & transfer functions. Network Synthesis. Network graphs & matrices. Sequential circuits design& applications, counters, registers, memories, Moore & Mealy circuit design. Digital IC families. A/D-D/A converters.	75
		Section C : Repeat Topic of Test 2 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, DMA, instruction sets, interfacing.	75
4.	2 nd Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Signals and Systems + Advanced Electronics Topics (All Topics)	150
		Section B : Repeat Topic of Test 2 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. Microcontrollers & uses and Embedded systems.	75
		Section C : Repeat Topic of Test 3 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.	75
5.	9 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Electronic Devices & Circuits + Advanced Communication Topics (All Topics)	150
		Section B : Repeat Topic of Test 3 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.	75
		Section C : Repeat Topic of Test 4 Signals and Systems - 1 (Part Syllabus) + Advanced Electronics Topics - 1 (Part Syllabus) Topics: Classification and Applications of signals and systems. CTFS, CTFT and their application to continuous time systems. Laplace transform, its applications and realization of continuous time systems. Basics of Integrated Circuits : Bipolar, MOS and CMOS ICs. VLSI technology: Processing, lithography, interconnects, packaging, testing.	75
6.	16 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Analog Circuits + Electronic Measurements and Instrumentation (All Topics)	150
		Section B : Repeat Topic of Test 4 Signals and Systems - 2 (Part Syllabus) + Advanced Electronics Topics - 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. VLSI design: Principles, Design for testability, examples.	75
		Section C : Repeat Topic of Test 5 Electronic Devices & Circuits - 1 (Part Syllabus) + Advanced Commu. Topics - 1 (Part Syllabus) Topics: Basics of semiconductors. Diode basics and characteristics, Diodes for different uses. Fibre optic communication systems: fibre optics, theory, practice, standards, block schematics, link calculations, system design. Cellular networks, types, analysis, protocols (TCP/TCP/IP), multiple accesses: TDMA, FDMA, CDMA.	75
7.	23 rd Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Electromagnetics + Computer Organization and Architecture (All Topics)	150
		Section B : Repeat Topic of Test 5 Electronic Devices & Circuits-2 (Part Syllabus) + Advanced Communication Topics-2 (Part Syllabus) Topics : BJT, JFETs, MOSFETs basics and characteristics. Basics of Optoelectronics and its applications, Optical sources/ detectors. Microwave & satellite communication: Terrestrial/space type LOS systems, block schematics link calculations, system design. Communication satellites, orbits, characteristics, systems, uses. Communication networks: Principles, practices, technologies, uses, OSI model, security. Basic packet multiplexed streams and scheduling.	75
		Section C : Repeat Topic of Test 6 Analog Circuits -1 (Part Syllabus) + Electronic Measurements and Instrumentation-1 (Part Syllabus) 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. 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.	75
8.	30 th Apr, 2017 Sunday 1:00 - 4:00 PM	Section A: New Topic Basic Electrical Engineering + Materials Science (All Topics)	150
		Section B : Repeat Topic of Test 6 Analog Circuits-2 (Part Syllabus) + Electronic Measurements and Instrumentation -2 (Part Syllabus) Topics : 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. Measurement systems for non-electrical quantities, different types of transducers and displays. Basics of telemetry and data acquisition systems.	75
		Section C : Repeat Topic of Test 7 Electromagnetics + Computer Organization and Architecture (All Topics)	75
9.	4 th May, 2017 Thursday	Full Syllabus Test Paper- I	300
10.	10 AM- 1 PM : FST-1 2 PM - 5 PM : FST-2	Full Syllabus Test Paper- II	300
11.	7 th May, 2017 Sunday	Full Syllabus Test Paper- I	300
12.	10 AM- 1 PM : FST-1 2 PM - 5 PM : FST-2	Full Syllabus Test Paper- II	300

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