



IES MASTER

Institute for Engineers (IES/GATE/PSUs)

ESE-2023 Conventional Test Schedule, Electrical Engineering

Date	Topic
19 Mar 2023	N.T. : ECF-1, MC-1, MC-2, ADE-2 R.T. :
26 Mar 2023	N.T. : ECF-2, MI-1, CS-1, CS-2 R.T. : ECF-1, MC-1, MC-2, ADE-2
02 Apr 2023	N.T. : ECF-3, MI-2, MC-3, MC-4 R.T. : ECF-2, MI-1, CS-1, CS-2
09 Apr 2023	N.T. : BEX-1, ADE-1, ADE-3 R.T. : ECF-3, MI-2, MC-3, MC-4
16 Apr 2023	N.T. : EM-1, MATH-1, PS-1, SSP-1 R.T. : BEX-1, ADE-1, ADE-3
23 Apr 2023	N.T. : CF-1, MATH-2, PS-2, PE-1 R.T. : EM-1, MATH-1, PS-1, SSP-1
30 Apr 2023	N.T. : BEX-2, MI-3, CS-3, SSP-2 R.T. : CF-1, MATH-2, PS-2, PE-1
07 May 2023	N.T. : EM-2, PS-3 R.T. : BEX-2, MI-1, MI-3,.. CS-3, SSP-2, ADE-3, MC-1, MC-2
14 May 2023	N.T. : CF-2, PE-2 R.T. : EM-2, ECF-1, ECF-3, MI-2, PS-2, PS-3, ADE-2, CS-2
21 May 2023	N.T. : CF-3, MATH-3 R.T. : CF-2, ECF-2, MI-1, BEX-1, EM-1, CS-1, MI-3, CS-3, ADE-3, PE-2, SSP-1
28 May 2023	N.T. : R.T. : MATH-1, MATH-3, EM-1, EM-2, ECF-1, BEX-2, CF-3, ADE-2, CS-2, PS-1, PS-3 PE-1, SSP-2
04 June 2023	Full Length-1 (Test Paper-1 + Test Paper-2)
11 June 2023	Full Length-2 (Test Paper-1 + Test Paper-2)
18 June 2023	Full Length-3 (Test Paper-1 + Test Paper-2)

Test Type	Timing	Day
Conventional Test	10:00 A.M. to 1:00 P.M.	Sunday
Conventional Full Length Test Paper-1	10:00 A.M. to 1:00 P.M.	Sunday
Conventional Full Length Test Paper-2	02:00 P.M. to 5:00 P.M.	Sunday

Note : The timing of the test may change on certain dates. Prior information will be given in this regard.

*N.T. : New Topic. *R.T. : Revision Topic

Call us : 8010009955, 011-41013406 or Mail us : info@iesmaster.org

Subject Code Details

Engineering Mathematics (MATH)	MATH-1		MATH-2		MATH-3			
	<ul style="list-style-type: none"> ◆ Linear Algebra ◆ Complex Variables ◆ Transform Theory 		<ul style="list-style-type: none"> ◆ Calculus ◆ Differential Equations 		<ul style="list-style-type: none"> ◆ Probability and Statistics ◆ Numerical Methods 			
Electrical Materials (EM)	EM-1			EM-2				
	<ul style="list-style-type: none"> ◆ Crystal Structures & Solid State ◆ Band Theory ◆ Dielectrics ◆ Magnetic materials 			<ul style="list-style-type: none"> ◆ Conductive materials ◆ Photo conductivity ◆ Nano materials ◆ Superconductors 				
Electric Circuits & Fields (ECF)	ECF-1		ECF-2		ECF-3			
	<ul style="list-style-type: none"> ◆ Circuit Elements ◆ 3-phase Circuits ◆ Network Graphs ◆ Transient and steady state Response 		<ul style="list-style-type: none"> ◆ Magnetically Coupled Circuits ◆ Network Theorems ◆ Two-port networks ◆ Resonance ◆ Basic Filters 		<ul style="list-style-type: none"> ◆ Electrostatics and Magneto statics ◆ Time varying fields & Maxwell's Equations 			
Electrical & Electronic Measurements	MI-1		MI-2		MI-3			
	<ul style="list-style-type: none"> ◆ Errors, Units, Dimensions & standards ◆ Galvanometers ◆ Types of Instruments ◆ Measurement of Power 		<ul style="list-style-type: none"> ◆ Measurement of Energy ◆ Measurement of resistance ◆ Potentiometers ◆ AC bridges ◆ CRO ◆ Q-meter 		<ul style="list-style-type: none"> ◆ Electronic Instrumentation ◆ Data Acquisition System ◆ Transducers 			
Computer Fundamentals (CF)	CF-1		CF-2		CF-3			
	<ul style="list-style-type: none"> ◆ Architecture, CPU, I/O, Memory, Peripheral devices ◆ Boolean algebra ◆ Number system arithmetic functions 		<ul style="list-style-type: none"> ◆ Basic of OS, Virtual memory ◆ File system ◆ Networking 		<ul style="list-style-type: none"> ◆ Data Representation and Programming, Programming languages 			
Basic Electronics Engineering (BEX)	BEX-1			BEX-2				
	<ul style="list-style-type: none"> ◆ Basics of diodes, BJT, FET, MOSFET 			<ul style="list-style-type: none"> ◆ Transistor amplifiers – equivalent circuits & frequency response ◆ Oscillators, Feedback amplifiers 				
Analog Digital Electronics (ADE)	ADE-1		ADE-2		ADE-3			
	<ul style="list-style-type: none"> ◆ OPAMP ◆ Multivibrator, Sample and Hold circuits ◆ Filters 		<ul style="list-style-type: none"> ◆ Digital Electronics ◆ Microprocessors 		<ul style="list-style-type: none"> ◆ Communications 			
Systems and Signal Processing (SSP)	SSP-1			SSP-2				
	<ul style="list-style-type: none"> ◆ Continuous & discrete-time signals ◆ Shifting and scaling ◆ Linear, time-invariant and causal system ◆ Laplace & Z-transform 			<ul style="list-style-type: none"> ◆ Fourier series ◆ Discrete Fourier Transform ◆ FFT ◆ FIR and IIR Filters ◆ Bilinear Transformation 				
Control System (CS)	CS-1		CS-2		CS-3			
	<ul style="list-style-type: none"> ◆ Basics ◆ Block diagram Algebra ◆ Signal flow ◆ Mathematical Modeling 		<ul style="list-style-type: none"> ◆ Time Response Analysis ◆ Stability ◆ Root Locus 		<ul style="list-style-type: none"> ◆ Controllers & Compensators ◆ State Variable Analysis ◆ Frequency Response & its stability 			
Electrical Machines (MC)	MC-1		MC-2		MC-3			
	<ul style="list-style-type: none"> ◆ Transformers ◆ Basic concepts of Rotating Machines 		<ul style="list-style-type: none"> ◆ Polyphase Induction Machines ◆ Single Phase motors 		<ul style="list-style-type: none"> ◆ DC Machines 			
Power System (PS)	PS-1		PS-2		PS-3			
	<ul style="list-style-type: none"> ◆ Electric Power Sources-Thermal, Hydro Nuclear, Wind & Solar ◆ Performance of lines & cables ◆ HVDC & Corona ◆ Smart Grid; Environment Implications 		<ul style="list-style-type: none"> ◆ Symmetrical Components & Fault Analysis ◆ Power System stability & dynamics ◆ Load flow; Matrix Representation 		<ul style="list-style-type: none"> ◆ Economic Load Dispatch & Power Economics ◆ Load Frequency control ◆ Voltage Control & Compensation ◆ FACTS ◆ Power System Protection ◆ Solid state Relays 			
Power Electronics and Drivers (PE)	PE-1			PE-2				
	<ul style="list-style-type: none"> ◆ Power Semiconductor Devices ◆ High Frequency Inductors & transformers ◆ Diode Rectifiers ◆ Phase Controlled Rectifiers 			<ul style="list-style-type: none"> ◆ Choppers; DC-DC switched mode converters ◆ Inverters; DC-AC switched mode converters ◆ AC Voltage Controllers ◆ Cycloconverters ◆ Electric Drives ◆ Resonant Converters 				