



IES MASTER

Institute for Engineers (IES/GATE/PSUs)

ESE-2019 Conventional Test Schedule, Electrical Engineering

Date	Topic
17th Mar 2019	N.T. : ECF-1, MC-1, MC-2, ADE-2 R.T. :
24th Mar 2019	N.T. : ECF-2, MI-1, CS-1, CS-2 R.T. : ECF-1, MC-1, MC-2, ADE-2
31st Mar 2019	N.T. : ECF-3, MI-2, MC-3, MC-4 R.T. : ECF-2, MI-1, CS-1, CS-2
07th Apr 2019	N.T. : BEX-1, ADE-1, ADE-3 R.T. : ECF-3, MI-2, MC-3, MC-4
14th Apr 2019	N.T. : EM-1, MATH-1, PS-1, SSP-1 R.T. : BEX-1, ADE-1, ADE-3
21st Apr 2019	N.T. : CF-1, MATH-2, PS-2, PE-1 R.T. : EM-1, MATH-1, PS-1, SSP-1
28th Apr 2019	N.T. : BEX-2, MI-3, CS-3, SSP-2 R.T. : CF-1, MATH-2, PS-2, PE-1
05th May 2019	N.T. : EM-2, PS-3 R.T. : BEX-2, MI-1, MI-3, CS-3, SSP-2, ADE-3, MC-1, MC-2
12th May 2019	N.T. : CF-2, PE-2 R.T. : EM-2, ECF-1, ECF-3, MI-2, PS-2, PS-3, ADE-2, CS-2
19th May 2019	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
26th May 2019	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
02nd Jun 2019	Full Length-1 (Test Paper-1 + Test Paper-2)
09th Jun 2019	Full Length-2 (Test Paper-1 + Test Paper-2)
16th Jun 2019	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	
	♦ Linear Algebra ♦ Complex Variables ♦ Transform Theory		♦ Calculus ♦ Differential Equations		♦ Probability and Statistics ♦ Numerical Methods	
Electrical Materials (EM)	EM-1			EM-2		
	♦ Crystal Structures & Solid State ♦ Band Theory ♦ Dielectrics ♦ Magnetic materials			♦ Conductive materials ♦ Photo conductivity ♦ Nano materials ♦ Superconductors		
Electric Circuits & Fields (ECF)	ECF-1		ECF-2		ECF-3	
	♦ Circuit Elements ♦ 3-phase Circuits ♦ Network Graphs ♦ Transient and steady state Response		♦ Magnetically Coupled Circuits ♦ Network Theorems ♦ Two-port networks ♦ Resonance ♦ Basic Filters		♦ Electrostatics and Magneto statics ♦ Time varying fields & Maxwell's Equations	
Electrical & Electronic Measurements	MI-1		MI-2		MI-3	
	♦ Errors, Units, Dimensions & standards ♦ Galvanometers ♦ Types of Instruments ♦ Measurement of Power		♦ Measurement of Energy ♦ Measurement of resistance ♦ Potentiometers ♦ AC bridges ♦ CRO ♦ Q-meter		♦ Electronic Instrumentation ♦ Data Acquisition System ♦ Transducers	
Computer Fundamentals (CF)	CF-1		CF-2		CF-3	
	♦ Architecture, CPU, I/O, Memory, Peripheral devices ♦ Boolean algebra ♦ Number system arithmetic functions		♦ Basic of OS, Virtual memory ♦ File system ♦ Networking		♦ Data Representation and Programming, Programming languages	
Basic Electronics Engineering (BEX)	BEX-1			BEX-2		
	♦ Basics of diodes, BJT, FET, MOSFET			♦ Transistor amplifiers – equivalent circuits & frequency response ♦ Oscillators, Feedback amplifiers		
Analog Digital Electronics (ADE)	ADE-1		ADE-2		ADE-3	
	♦ OPAMP ♦ Multivibrator, Sample and Hold circuits ♦ Filters		♦ Digital Electronics ♦ Microprocessors		♦ Communications	
Systems and Signal Processing (SSP)	SSP-1			SSP-2		
	♦ Continuous & discrete-time signals ♦ Shifting and scaling ♦ Linear, time-invariant and causal system ♦ Laplace & Z-transform			♦ Fourier series ♦ Discrete Fourier Transform ♦ FFT ♦ FIR and IIR Filters ♦ Bilinear Transformation		
Control System (CS)	CS-1		CS-2		CS-3	
	♦ Basics ♦ Block diagram Algebra ♦ Signal flow ♦ Mathematical Modeling		♦ Time Response Analysis ♦ Stability ♦ Root Locus		♦ Controllers & Compensators ♦ State Variable Analysis ♦ Frequency Response & its stability	
Electrical Machines (MC)	MC-1	MC-2		MC-3		MC-4
	♦ Transformers ♦ Basic concepts of Rotating Machines	♦ Polyphase Induction Machines ♦ Single Phase motors		♦ DC Machines		♦ Synchronous Machines
Power System (PS)	PS-1		PS-2		PS-3	
	♦ Electric Power Sources-Thermal, Hydro Nuclear, Wind & Solar ♦ Performance of lines & cables ♦ HVDC & Corona ♦ Smart Grid; Environment Implications		♦ Symmetrical Components & Fault Analysis ♦ Power System stability & dynamics ♦ Load flow; Matrix Representation		♦ 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		
	♦ Power Semiconductor Devices ♦ High Frequency Inductors & transformers ♦ Diode Rectifiers ♦ Phase Controlled Rectifiers			♦ Choppers; DC-DC switched mode converters ♦ Inverters; DC-AC switched mode converters ♦ AC Voltage Controllers ♦ Cycloconverters ♦ Electric Drives ♦ Resonant Converters		