



IES MASTER

Institute for Engineers (IES/GATE/PSUs)

ESE-2021 Conventional Test Schedule, Electronics & Telecomm. Eng.

Date	Topic
14th Aug. 2021	N.T. : ACT-1, ADC-1, ADC-3 R.T. :
22nd Aug. 2021	N.T. : NT-1, MI-1, CS-2 R.T. : ACT-1, ADC-1, ADC-3
29th Aug. 2021	N.T. : EMT-1, MI-2, BEE-1 R.T. : NT-1, CS-2, ADC-1
5th Sept. 2021	N.T. : BEX-1, COMM-1, COMM-2 R.T. : EMT-1, MI-2, BEE-1
12th Sept. 2021	N.T. : MAT-1, AET-1, CS-1 R.T. : BEX-1, COMM-1, COMM-2, MI-1
19th Sept. 2021	N.T. : CO-1, AET-2, BEX-3 R.T. : MAT-1, CS-1, ADC-3
26th Sept. 2021	N.T. : BEX-2, MI-3, CS-3 R.T. : CO-1, AET-1, BEX-3
3rd Oct. 2021	N.T. : MAT-2, BEE-2, NT-2 R.T. : BEX-2, MI-3, CS-3, AET-2
10th Oct. 2021	N.T. : CO-2, ADC-4, EMT-2 R.T. : MAT-2, BEE-2, NT-2, AET-1, BEX-3
17th Oct. 2021	N.T. : ADC-2, ACT-2, EMT-3 R.T. : CO-2, ADC-4, BEX-2, MI-3, CS-3
24th Oct. 2021	N.T. : NT-3, COMM-3 R.T. : BEX-1, BEX-3, CS-2, EMT-3, ACT-2, ADC-2
31st Oct. 2021	Full Length-1 (Test Paper-1 + Test Paper-2)
7th Nov. 2021	Full Length-2 (Test Paper-1 + Test Paper-2)
14th Nov. 2021	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.	Tuesday
Conventional Full Length Test Paper-2	02:00 P.M. to 5:00 P.M.	Tuesday

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

	BEX-1	BEX-2	BEX-3	
Basic Electronics Engineering (BEX)	<ul style="list-style-type: none"> ◆ Basics of Semiconductors ◆ Diode : Basics, Characteristics & its types ◆ BJT, JFET, MOSFET-Basic Structure & Characteristics 	<ul style="list-style-type: none"> ◆ Transistor Amplifiers ◆ Oscillators & Other circuits ◆ Basic of Linear ICs ◆ Operational Amplifier & their applications 	<ul style="list-style-type: none"> ◆ Basics of ICs; Bipolar, MOS & CMOS ICs ◆ Optical Sources / Detectors ◆ Basics of Optoelectronics & Applications 	
Basic Electrical Engineering (BEE)	BEE-1		BEE-2	
	<ul style="list-style-type: none"> ◆ Single Phase AC circuits ◆ Transformer ◆ DC Machine 		<ul style="list-style-type: none"> ◆ Induction Machine ◆ Synchronous Machine ◆ Electrical Power Sources, Basics of Batteries & its uses 	
Material Science (MAT)	MAT-1		MAT-2	
	<ul style="list-style-type: none"> ◆ Crystalline Structure ◆ Dielectric properties of matter ◆ Ceramic materials ◆ Magnetic properties of materials 		<ul style="list-style-type: none"> ◆ Insulating laminates for electronics ◆ Conductors & Superconductors ◆ Semiconductor & Optical materials ◆ Nano materials ◆ Nano-optical / Magnetic / Electronic materials 	
Electronic Measurement and Instrumentation (MI)	MI-1	MI-2	MI-3	
	<ul style="list-style-type: none"> ◆ Error analysis & basics of measurement ◆ Basic measuring instruments 	<ul style="list-style-type: none"> ◆ Measurement of Resistance ◆ AC Bridges ◆ Potentiometer ◆ Cathode Ray Oscilloscope (CRO) ◆ Q-meter 	<ul style="list-style-type: none"> ◆ Basics of electronic measurements ◆ Digital & electronic voltmeter ◆ Digital frequency meter ◆ Transducers & Displays ◆ Basics of Telemetry ◆ Data Acquisition System 	
Network Theory (NT)	NT-1	NT-2	NT-3	
	<ul style="list-style-type: none"> ◆ Network elements ◆ Network theorems ◆ 2-port networks 	<ul style="list-style-type: none"> ◆ Transient and Steady State Response ◆ Steady State Sinusoidal analysis ◆ Resonance 	<ul style="list-style-type: none"> ◆ Network Functions ◆ Magnetically Coupled Circuits ◆ Graph Theory ◆ Filters ◆ State equations for networks 	
Analog and Digital Circuits (ADC)	ADC-1	ADC-2	ADC-3	
	<ul style="list-style-type: none"> ◆ Small Signal equivalent of Diodes, BJTs and FETs ◆ Different Diode Circuits ◆ Biasing and Stability of BJTs & JFET amplifier circuits 	<ul style="list-style-type: none"> ◆ Analysis / Design of amplifiers signal & multi-stage ◆ Feedback & its uses ◆ Active filters, timers, multipliers, wave shaping 	<ul style="list-style-type: none"> ◆ Boolean Algebra & Logic Gates ◆ Combinational circuits : Design & Applications 	<ul style="list-style-type: none"> ◆ Sequential circuits: Design & Applications ◆ Design IC Logic families ◆ A/D & D/A converters
Among and Digital Communication (COMM)	COMM-1		COMM-2	COMM-3
	<ul style="list-style-type: none"> ◆ Analog Communication Systems 		<ul style="list-style-type: none"> ◆ Digital Communication Systems 	<ul style="list-style-type: none"> ◆ Random Signals and Noise ◆ Information & Probability Theory ◆ Multiple Access-TDMA, FDMA, CDMA
Control Systems (CS)	CS-1	CS-2	CS-3	
	<ul style="list-style-type: none"> ◆ Signals and Systems ◆ System Realization ◆ Transforms & their Applications 	<ul style="list-style-type: none"> ◆ Basics of Control Systems ◆ Block Diagram & Signal Flow Graphs ◆ Time Response Analysis ◆ Routh Hurwitz criteria & Root Locus Technique 	<ul style="list-style-type: none"> ◆ Frequency Response Analysis ◆ Stability in Frequency Domain ◆ Controllers and compensators ◆ State Space Analysis 	
Computer Organization and Architecture (CO)	CO-1		CO-2	
	<ul style="list-style-type: none"> ◆ Basics of Computer Organization ◆ Operating Systems 		<ul style="list-style-type: none"> ◆ Database Management Systems ◆ Data Structure and Programming 	
Electromagnetics (EMT)	EMT-1	EMT-2	EMT-3	
	<ul style="list-style-type: none"> ◆ Elements of Vector Calculus ◆ Electrostatics ◆ Magnetostatics 	<ul style="list-style-type: none"> ◆ Maxwell's Equations ◆ Electromagnetic Wave propagation through different media ◆ Transmission Lines 	<ul style="list-style-type: none"> ◆ Waveguides ◆ antenna Theory 	
Advanced Electronics Topics (AET)	AET-1		AET-2	
	<ul style="list-style-type: none"> ◆ VLSI Technology ◆ VLSI Design ◆ Mealy and Moore circuit design ◆ Pipeline concept and functions ◆ Designs for testability and examples 		<ul style="list-style-type: none"> ◆ Digital Signals Processing ◆ Digital Filters ◆ Speech / Audio / Radar Signal Processing ◆ Microprocessors and Microcontrollers ◆ Embedded Systems 	
Advanced communication Topics (ACT)	ACT-1	ACT-2		
	<ul style="list-style-type: none"> ◆ Communication Networks : Principles / Practices / Technologies / Uses / OSI Model / Security ◆ Basic packet multiplexed streams / scheduling ◆ Protocols (TCP / TCP-IP) ◆ Cellular Networks : Types, Analysis 		<ul style="list-style-type: none"> ◆ Microwave & Satellite Communication ◆ Fiber Optic Communication 	