

STUDY PLAN

Electronics Devices			Measurement and instrumentation		
Date	Topic	Timing	Date	Topic	Timing
Recorded	Energy Band Diagram	Recorded	Recorded	Introduction to Electrical & Electronics Engineering Measurements	6:15PM - 7:15PM
Recorded	Types of Semiconductor	Recorded	Recorded	Method of Measurement and Static Characteristics of Instruments	6:15PM - 7:15PM
Recorded	Resistivity and Conductivity of Semiconductor	Recorded	Recorded	Static Characteristics of Instruments	6:15PM - 7:15PM
Recorded	Hall Effect	Recorded	Recorded	Dynamic Characteristics of Instruments	6:15PM - 7:15PM
Recorded	Practice Questions	Recorded	Recorded	Error Analysis Part-1	6:15PM - 7:15PM
Recorded	PN Junction Diodes	Recorded	Recorded	Error Analysis Part-2	6:15PM - 7:15PM
Recorded	Characteristics of PN Junction Diodes	Recorded	Recorded	Error Analysis Part-3	6:15PM - 7:15PM
Recorded	Transistion and Diffusion Capacacitance	Recorded	Recorded	Types of Dampings and torques Part-1	6:15PM - 7:15PM
Recorded	Zener Diode	Recorded	Recorded	Types of Dampings and torques Part-2	6:15PM - 7:15PM
Recorded	Avalanche and Zener Breakdown	Recorded	Recorded	PMMC Part-1	6:15PM - 7:15PM
Recorded	Rectifiers-1	Recorded	Recorded	PMMC Part-2	6:15PM - 7:15PM
Recorded	Rectifiers-2	Recorded	Recorded	Rectifier type instruments	6:15PM - 7:15PM
Recorded	Clippers	Recorded	Recorded	Ratio Meter & Megger	6:15PM - 7:15PM
Recorded	Clampers	Recorded	Recorded	Moving iron type instruments -1	6:15PM - 7:15PM
Recorded	Practice Questions	Recorded	Recorded	Moving iron type instruments -2	6:15PM - 7:15PM
Recorded	Transistors and Its working	Recorded	Recorded	Power factor meter, flux meter, Frequency meter	6:15PM - 7:15PM
Recorded	Confuguration and Characteristics of Transistors	Recorded	Recorded	Measurement of Power-1	6:15PM - 7:15PM
Recorded	Current Components in BJT	Recorded	Recorded	Measurement of Power-2	6:15PM - 7:15PM
Recorded	Early Effect	Recorded	Recorded	Energy meter - 1	6:15PM - 7:15PM
Recorded	Mode of Operation	Recorded	Recorded	Energy meter - 2	6:15PM - 7:15PM
Recorded	Applications of Transistor	Recorded	Recorded	Instrument transformers Part-1	6:15PM - 7:15PM
Recorded	BJT amplifiers - 1	Recorded	Recorded	Instrument transformers Part-2	6:15PM - 7:15PM
Recorded	BJT amplifiers - 2	Recorded	Recorded	CRO - 1	6:15PM - 7:15PM
Recorded	Power amplifiers	Recorded	Recorded	CRO - 2	6:15PM - 7:15PM

Recorded	Sinusoidal Oscillator & Phase shift Oscillator	Recorded	Recorded	AC bridges=1	6:15PM - 7:15PM
Recorded	Wien Bridge Oscillator	Recorded	Recorded	AC bridges=2	6:15PM - 7:15PM
Recorded	Colpitts and Hartley Oscillators	Recorded	Recorded	Transducers Part-1	6:15PM - 7:15PM
Recorded	Multivibrator - 1	Recorded	Recorded	Transducers Part-2	6:15PM - 7:15PM
Recorded	Multivibrator - 2	Recorded	END OF SUBJECT		
Recorded	Practice Questions	Recorded	Ashish SIR : Network Theory		
Recorded	Inverter and UPS	Recorded			
Recorded	Working of Triode	Recorded			
Recorded	Triode Circuits	Recorded			
END OF SUBJECT			Date	Topic	Timing
Linear Integrated Circuits			Recorded	Classification of Element	Recorded
			Recorded	Circuit Element (R,L,C)	Recorded
			Recorded	Classification of Source	Recorded
			Recorded	Ohm's Law and Kirchoff's Law	Recorded
Date	Topic	Timing	Recorded	Nodal Analysis and Source Transformation	Recorded
Recorded	Introduction	Recorded	Recorded	Mesh Analysis	Recorded
Recorded	Construction and Properties part-1	Recorded	Recorded	Current and Voltage Division Rule, Star-Delta Conversion	Recorded
Recorded	Construction and Properties part-2	Recorded	Recorded	Equivalent Connection of Source and Tellegen's Theorem	Recorded
Recorded	Construction and Properties part-2	Recorded	Recorded	Thvenin's and Norton's Theorem	Recorded
Recorded	Linear applications part-1	Recorded	Recorded	Maximum Power Transfer Theorem and Compensation Theorem	Recorded
Recorded	Linear applications part-2	Recorded	Recorded	Superposition Theorem and Substitution Theorem	Recorded
Recorded	Non Linear applications part-1	Recorded	Recorded	Milliman's Theorem and Reciprocity Theorem	Recorded
Recorded	Non Linear applications part-2	Recorded	Recorded	Alternating Voltage and Current	Recorded
Recorded	Voltage regulators	Recorded	Recorded	Why Sine Waveform? Generation of Alternating Voltage and Current	Recorded
Recorded	Miscellaneous	Recorded	Recorded	Important AC terminology	Recorded
Recorded	Introduction	Recorded	Recorded	Complex Waveform and Phasor Representation of Sinusoidal Quantities	Recorded
Recorded	Question on Timers	Recorded	Recorded	AC Circuit containing Pure R (or) L (or) C Only	Recorded
Recorded	Phase locked loop	Recorded	Recorded	R-L Series A.C. Circuit	Recorded
END OF SUBJECT			Recorded	R-C Series A.C. Circuit	Recorded
Data Communication and Network			Recorded	R-L-C Series A.C. Circuit and Resonance in series AC Circuit	Recorded
			Recorded	Variation of Voltages Across R/L/C with Frequency	Recorded
			Recorded	Quality Factor, Bandwidth of series RLC Circuit	Recorded

Date	Topic	Timing		Recorded	Parallel RLC Circuit and Resonance in parallel AC Circuit	Recorded
Recorded	Data Communication	Recorded		Recorded	Bandwidth, Cutoff Frequencies and Variation of Voltages Across R/L/C with Frequency of parallel resonance circuit	Recorded
Recorded	Hardware and interface - 1	Recorded		Recorded	Methods of Solving Parallel AC Circuit	Recorded
Recorded	Hardware and interface - 2	Recorded		Recorded	Important Admittance in parallel AC Circuit	Recorded
Recorded	OSI layers	Recorded		Recorded	Concept of Three phase Circuit - Star/Delta Connection and Power Relation	Recorded
Recorded	LAN, MAN, WAN	Recorded		Recorded	Basic of Magnetism	Recorded
Recorded	Network Topologies	Recorded		Recorded	Concept of Electromagnetism and Force on Current Carrying Conductor	Recorded
Recorded	Objective Questions	Recorded		Recorded	Important terms of Magnetic Circuit	Recorded
Recorded	Ethernet	Recorded		Recorded	B-H Curve and Hysteresis Loss	Recorded
Recorded	IP addresses	Recorded		Recorded	Basic of Electromagnetic Induction-Self and mutual induction	Recorded
Recorded	internet working	Recorded		Recorded	Inductor in series and parallel with and without mutual inductance	Recorded
END OF SUBJECT				Recorded	Cells and Batteries	Recorded
Communication Engineering				Recorded	Concept of Graph, Cut-set and Loops	Recorded
				Recorded	Concept of graph Theory	Recorded
				Recorded	Loop and Cut-set Analysis	Recorded
				Recorded	Impedance (Z) and Admittance (Y) Parameter	Recorded
Date	Topic	Timing		Recorded	Transmission (ABCD), Hybrid (h), and Inverse Hybrid Parameter	Recorded
Recorded	Introduction	Recorded		Recorded	Interconnection Two Port Networks	Recorded
Recorded	Modulation requirements	Recorded		Recorded	Basic of Transient	Recorded
Recorded	Amplitude modulation part-1	Recorded		Recorded	Source Free Circuits (RL and RC)	Recorded
Recorded	Amplitude modulation part-2	Recorded		Recorded	Source Free Circuits (series and parallel RLC)	Recorded
Recorded	DSBSC Modulation and demodulation	Recorded		Recorded	Step Response of First Order Circuits (RL and RC)	Recorded
Recorded	SSB SC Modulation and demodulation	Recorded		Recorded	Step Response of Second Order Circuits (Series and Parallel RLC)	Recorded
Recorded	VSB modulation and demodulation	Recorded		Microprocessor & Microcontroller		
Recorded	Practice Questions	Recorded				
Recorded	Introduction	Recorded				
Recorded	Phase and frequency modulation parameters	Recorded		Date	Topic	Timing
Recorded	Modulation and demodulation techniques	Recorded		Recorded	Microprocessor-1	Recorded
Recorded	Receivers part-1	Recorded		Recorded	Microprocessor-2	Recorded
Recorded	Receivers part-2	Recorded		Recorded	Microprocessor-3	Recorded
Recorded	Receivers part-3	Recorded		Recorded	Microprocessor-4	Recorded

Recorded	Block Diagram of PCM	Recorded		Recorded	Microprocessor-5	Recorded
Recorded	Sampling criteria	Recorded		Recorded	Microprocessor-6	Recorded
Recorded	Quantization	Recorded		Recorded	Microprocessor-7	Recorded
Recorded	Intersymbol interference	Recorded		Recorded	Microprocessor-8	Recorded
Recorded	Frequency division multiplexing	Recorded		Recorded	Microprocessor-9	Recorded
Recorded	Time division multiplexing	Recorded		Recorded	Microprocessor-10	Recorded
Recorded	Wave Propagation - 1	Recorded		Ashish Sir : Control system		
Recorded	Wave Propagation - 2	Recorded				
Recorded	Equivalent Circuit of TL	Recorded				
Recorded	Lossless and distortionless TL	Recorded		Date	Topic	Timing
Recorded	Input impedance of TL	Recorded		Recorded	Basic of Control System	3:00 PM - 4:00 PM
Recorded	Reflection coefficient and VSWR	Recorded		Recorded	Transfer Function Analysis of AC and DC servomotor	3:00 PM - 4:00 PM
Recorded	Practice Questions	Recorded		Recorded	Control system Representation	3:00 PM - 4:00 PM
Recorded	Smith Chart	Recorded		Recorded	Time Response Analysis Part-1	3:00 PM - 4:00 PM
Recorded	Radar range equation	Recorded		Recorded	Time Response Analysis Part-2	3:00 PM - 4:00 PM
Recorded	Satellite Communication - 1	Recorded		Recorded	Routh Hurwitz Criterion, Root Locus	3:00 PM - 4:00 PM
Recorded	Satellite Communication - 2	Recorded		Recorded	Bode Plotting using semi log graph paper	3:00 PM - 4:00 PM
Recorded	Cellular Communication - 1	Recorded		Recorded	Compensator	3:00 PM - 4:00 PM
Recorded	Cellular Communication - 2	Recorded		Recorded	Controller	3:00 PM - 4:00 PM
Digital Electronics						
Date	Topic	Timing				
Recorded	Orientation	Recorded				
Recorded	Introduction to Number systems	Recorded				
Recorded	Addition in different base	Recorded				
Recorded	Subtraction in Different Base	Recorded				
Recorded	Complements	Recorded				
Recorded	Interconversions part-1	Recorded				
Recorded	Interconversions part-2	Recorded				
Recorded	Binary Codes,BCD	Recorded				
Recorded	Excess-3 and Gray Codes	Recorded				

Recorded	Practice Questions	Recorded				
Recorded	Axioms and Operations	Recorded				
Recorded	Laws of Boolean Algebra	Recorded				
Recorded	SOP and POS representation part-1	Recorded				
Recorded	SOP and POS representation part-2	Recorded				
Recorded	Basic Gates	Recorded				
Recorded	Special Gates	Recorded				
Recorded	Universal Gates	Recorded				
Recorded	Circuits of Gates	Recorded				
Recorded	Adders	Recorded				
Recorded	Subtractors	Recorded				
Recorded	Multiplexers part-1	Recorded				
Recorded	Multiplexers part-2	Recorded				
Recorded	Demultiplexers and Decoders	Recorded				
Recorded	Practice Questions	Recorded				
Recorded	Introduction to flip flops	Recorded				
Recorded	Different types of Flip flops	Recorded				
Recorded	Counters Basics	Recorded				
Recorded	Counters Basics	Recorded				
Recorded	Practice Questions	Recorded				
Recorded	A/D Convertors	Recorded				
Recorded	D/A Convertors	Recorded				
Recorded	Practice Questions	Recorded				
Recorded	Memories	Recorded				