

STUDY PLAN

Electronics Devices				Ashish SIR : Measurement and instrumentation		
Date	Topic	Timing		Date	Topic	Timing
Recorded	Energy Band Diagram	Recorded		Recorded	Methods of measurements, type of instruments	3:00 PM - 4:00 PM
Recorded	Types of Semiconductor	Recorded		Recorded	Basic Characteristics of an Instrument & Error Analysis	3:00 PM - 4:00 PM
Recorded	Resistivity and Conductivity of Semiconductor	Recorded		Recorded	Types of Deflection, Damping and Controlling Torque	3:00 PM - 4:00 PM
Recorded	Hall Effect	Recorded		Recorded	classification of analog instruments, mcq	3:00 PM - 4:00 PM
Recorded	Practice Questions	Recorded		Recorded	Basic Galvanometer, PMMC & MI instruments	3:00 PM - 4:00 PM
Recorded	PN Junction Diodes	Recorded		Recorded	Electrodynamicometer instruments	3:00 PM - 4:00 PM
Recorded	Characteristics of PN Junction Diodes	Recorded		Recorded	Thermal instruments electrostatic instruments rectifier type	3:00 PM - 4:00 PM
Recorded	Transistion and Diffusion Capacitance	Recorded		Thursday, September 25, 2025	Requirement of Range Extension and Basic DC Ammeter & Voltmeter	3:00 PM - 4:00 PM
Recorded	Zener Diode	Recorded		Friday, September 26, 2025	Loading Effect Due to Voltmeter Resistance	3:00 PM - 4:00 PM
Recorded	Avalanche and Zener Breakdown	Recorded		Monday, September 29, 2025	Property , materials, measurments of low resistance	3:00 PM - 4:00 PM
Recorded	Rectifiers-1	Recorded		Tuesday, September 30, 2025	Measurments of medium resistance	3:00 PM - 4:00 PM
Recorded	Rectifiers-2	Recorded		Wednesday, October 1, 2025	Measurments of high resistance	3:00 PM - 4:00 PM
Recorded	Clippers	Recorded		Thursday, October 2, 2025	Measurments of inductance-1	3:00 PM - 4:00 PM
Recorded	Clampers	Recorded		Friday, October 3, 2025	Measurments of inductance-2	3:00 PM - 4:00 PM
Recorded	Practice Questions	Recorded		Monday, October 6, 2025	Capacitance and special bridges	3:00 PM - 4:00 PM
Recorded	Transistors and Its working	Recorded		Tuesday, October 7, 2025	DC and AC power,introduction to wattmeter	3:00 PM - 4:00 PM
Recorded	Confuguration and Characteristics of Transistors	Recorded		Wednesday, October 8, 2025	Blondel theorem , two WM method, Single WM method	3:00 PM - 4:00 PM
Recorded	Current Components in BJT	Recorded		Thursday, October 9, 2025	Errors in Wattmeter	3:00 PM - 4:00 PM
Recorded	Early Effect	Recorded		Friday, October 10, 2025	Induction Type Energy Meter	3:00 PM - 4:00 PM
Recorded	Mode of Operation	Recorded		Monday, October 13, 2025	Measurement of Frequency	3:00 PM - 4:00 PM
Recorded	Applications of Transistor	Recorded		Tuesday, October 14, 2025	Measurement of Power Factor	3:00 PM - 4:00 PM
Recorded	BJT amplifiers - 1	Recorded		Wednesday, October 15, 2025	Basics and construction of CRO	3:00 PM - 4:00 PM

Recorded	BJT amplifiers - 2	Recorded	Thursday, October 16, 2025	Measurement of phase and frequency	3:00 PM - 4:00 PM
Recorded	Power amplifiers	Recorded	Friday, October 17, 2025	Operation modes of CRO and Special CRO	3:00 PM - 4:00 PM
Recorded	Sinusoidal Oscillator & Phase shift Oscillator	Recorded	Monday, October 20, 2025	AC Potentiometers	3:00 PM - 4:00 PM
Recorded	Wien Bridge Oscillator	Recorded	Tuesday, October 21, 2025	Basic Potentiometer Circuit & Crompton's Potentiometer Circuit	3:00 PM - 4:00 PM
Recorded	Colpitts and Hartley Oscillators	Recorded	Wednesday, October 22, 2025	Introduction and classification	3:00 PM - 4:00 PM
Recorded	Multivibrator - 1	Recorded	Thursday, October 23, 2025	Strain gauges, LVDT, RTD, thermistor and pyrometer	3:00 PM - 4:00 PM
Recorded	Multivibrator - 2	Recorded	Friday, October 24, 2025	Construction, principle, application of Q-meter	3:00 PM - 4:00 PM
Recorded	Practice Questions	Recorded	Monday, October 27, 2025	CT & PT and Burden of Instrument Transformer	3:00 PM - 4:00 PM
Recorded	Inverter and UPS	Recorded	Tuesday, October 28, 2025	basic of DVM and its Extension, Type of DVM	3:00 PM - 4:00 PM
Recorded	Working of Triode	Recorded	Wednesday, October 29, 2025	basic of Electronic AC Voltmeter and its principle operation	3:00 PM - 4:00 PM
Recorded	Triode Circuits	Recorded	Thursday, October 30, 2025	Type of Electronic AC Voltmeters	3:00 PM - 4:00 PM
END OF SUBJECT			Friday, October 31, 2025	Live doubt and miscellaneous-1	3:00 PM - 4:00 PM
Linear Integrated Circuits			Monday, November 3, 2025	Live doubt and miscellaneous-2	3:00 PM - 4:00 PM
			Tuesday, November 4, 2025	Live doubt and miscellaneous-3	3:00 PM - 4:00 PM
			END OF SUBJECT		
Date	Topic	Timing	Ashish SIR : Network Theory		
Recorded	Introduction	Recorded			
Recorded	Construction and Properties part-1	Recorded			
Recorded	Construction and Properties part-2	Recorded	Date	Topic	Timing
Recorded	Construction and Properties part-2	Recorded	Recorded	Classification of Element	Recorded
Recorded	Linear applications part-1	Recorded	Recorded	Circuit Element (R,L,C)	Recorded
Recorded	Linear applications part-2	Recorded	Recorded	Classification of Source	Recorded
Recorded	Non Linear applications part-1	Recorded	Recorded	Ohm's Law and Kirchoff's Law	Recorded
Recorded	Non Linear applications part-2	Recorded	Recorded	Nodal Analysis and Source Transformation	Recorded
Recorded	Voltage regulators	Recorded	Recorded	Mesh Analysis	Recorded
Recorded	Miscellaneous	Recorded	Recorded	Current and Voltage Division Rule, Star-Delta Conversion	Recorded

Recorded	Introduction	Recorded		Recorded	Equivalent Connection of Source and Tellegen's Theorem	Recorded
Recorded	Question on Timers	Recorded		Recorded	Thvenin's and Norton's Theorem	Recorded
Recorded	Phase loked loop	Recorded		Recorded	Maximum Power Transfer Theorem and Compensation Theorem	Recorded
END OF SUBJECT				Recorded	Superposition Theorem and Substitution Theorem	Recorded
Data Communication and Network				Recorded	Milliman's Theorem and Reciprocity Theorem	Recorded
				Recorded	Alternating Voltage and Current	Recorded
				Recorded	Why Sine Waveform? Generation of Alernating Volatge and Current	Recorded
Date	Topic	Timing		Recorded	Important AC terminology	Recorded
Recorded	Data Communication	Recorded		Recorded	Complex Waveform and Phasor Representation of Sinusoidal Quantities	Recorded
Recorded	Hardware and interface - 1	Recorded		Recorded	AC Circuit containing Pure R (or) L (or) C Only	Recorded
Recorded	Hardware and interface - 2	Recorded		Recorded	R-L Series A.C. Circuit	Recorded
Recorded	OSI layers	Recorded		Recorded	R-C Series A.C Circuit	Recorded
Recorded	LAN, MAN, WAN	Recorded		Recorded	R-L-C Series A.C Circuit and Resonance in series AC Circuit	Recorded
Recorded	Network Topologies	Recorded		Recorded	Variation of Voltages Across R/L/C with Frequency	Recorded
Recorded	Objective Questions	Recorded		Recorded	Quality Factor, Bandwidth of series RLC Circuit	Recorded
Recorded	Ethernet	Recorded		Recorded	Parallel RLC Circuit and Resonance in parallel AC Circuit	Recorded
Recorded	IP addresses	Recorded		Recorded	Bandwidth, Cutoff Frequencies and Variation of Voltages Across R/L/C with Frequency of parallel resonance circuit	Recorded
Recorded	internet working	Recorded		Recorded	Methos of Solving Parallel AC Circuit	Recorded
END OF SUBJECT				Recorded	Important Admittance in parallel AC Circuit	Recorded
Communication Engineering				Recorded	Concept of Three phase Circuit - Star/Delta Connection and Power Relation	Recorded
				Recorded	Basic of Magnetism	Recorded
				Recorded	Concept of Electromagnetism and Force on Current Carrying Cunductor	Recorded
Date	Topic	Timing		Recorded	Important terms of Magnetic Circuit	Recorded
Recorded	Introduction	Recorded		Recorded	B-H Curve and Hystersis Loss	Recorded
Recorded	Modulation requiremets	Recorded		Recorded	Basic of Electromagnetic Induction-Self and mutual induction	Recorded
Recorded	Amplitude modulation part-1	Recorded		Recorded	Inductor in series and parallel with and without mutual inductance	Recorded

Recorded	Amplitude modulation part-2	Recorded		Recorded	Cells and Batteries	Recorded
Recorded	Amplitude modulation part-2	Recorded		Recorded	Concept of Graph, Cut-set and Loops	Recorded
Recorded	DSBSC Modulation and demodulation	Recorded		Recorded	Concept of graph Theory	Recorded
Recorded	SSB SC Modulation and demodulation	Recorded		Recorded	Loop and Cut-set Analysis	Recorded
Recorded	VSB modulation and demodulation	Recorded		Recorded	Impedance (Z) and Admittance (Y) Parameter	Recorded
Recorded	Practice Questions	Recorded		Recorded	Transmission (ABCD) , Hybrid (h), and Inverse Hybrid Parameter	Recorded
Recorded	Introduction	Recorded		Recorded	Interconnection Two Port Networks	Recorded
Recorded	Phase and frequency modulation parameters	Recorded		Recorded	Basic of Transient	Recorded
Recorded	Modulation and demodulation techniques	Recorded		Recorded	Source Free Circuits (RL and RC)	Recorded
Recorded	Recievers part-1	Recorded		Recorded	Source Free Circuits (series and parallel RLC)	Recorded
Recorded	Recievers part-2	Recorded		Recorded	Step Response of First Order Circuits (RL and RC)	Recorded
Recorded	Recievers part-3	Recorded		Recorded	Step Response of Second Order Circuits (Series and Parallel RLC)	Recorded
Recorded	Block Diagram of PCM	Recorded		Microprocessor & Microcontroller		
Recorded	Sampling criteria	Recorded				
Recorded	Quantization	Recorded				
Recorded	Intersymbol interference	Recorded		Date	Topic	Timing
Recorded	Frequency division multiplexing	Recorded		Recorded	Microprocessor-1	Recorded
Recorded	Time division multiplexing	Recorded		Recorded	Microprocessor-2	Recorded
Recorded	Wave Propagation - 1	Recorded		Recorded	Microprocessor-3	Recorded
Recorded	Wave Propagation - 2	Recorded		Recorded	Microprocessor-4	Recorded
Recorded	Equivalent Circuit of TL	Recorded		Recorded	Microprocessor-5	Recorded
Recorded	Lossless and distortionless TL	Recorded		Recorded	Microprocessor-6	Recorded
Recorded	Input impedance of TL	Recorded		Recorded	Microprocessor-7	Recorded
Recorded	Reflection coefficient and VSWR	Recorded		Recorded	Microprocessor-8	Recorded
Recorded	Practice Questions	Recorded		Recorded	Microprocessor-9	Recorded
Recorded	Smith Chart	Recorded		Recorded	Microprocessor-10	Recorded

Recorded	Radar range equation	Recorded		Ashish Sir : Control system		
Recorded	Satellite Communication - 1	Recorded				
Recorded	Satellite Communication - 2	Recorded				
Recorded	Cellular Communication - 1	Recorded		Date	Topic	Timing
Recorded	Cellular Communication - 2	Recorded		Monday, September 29, 2025	Basic of Control System	3:00 PM - 4:00 PM
Digital Electronics				Tuesday, September 30, 2025	Transfer Function Analysis of AC and DC servomotor	3:00 PM - 4:00 PM
				Wednesday, October 1, 2025	Control system Representation	3:00 PM - 4:00 PM
				Thursday, October 2, 2025	Time Response Analysis Part-1	3:00 PM - 4:00 PM
				Friday, October 3, 2025	Time Response Analysis Part-2	3:00 PM - 4:00 PM
Date	Topic	Timing		Monday, October 6, 2025	Routh Hurwitz Criterion, Root Locus	3:00 PM - 4:00 PM
Recorded	Orientation	Recorded		Tuesday, October 7, 2025	Bode Plotting using semi log graph paper	3:00 PM - 4:00 PM
Recorded	Introduction to Number systems	Recorded		Wednesday, October 8, 2025	Compensator	3:00 PM - 4:00 PM
Recorded	Addition in different base	Recorded		Thursday, October 9, 2025	Controller	3:00 PM - 4:00 PM
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				