

## STUDY PLAN

Avinash sir - Electronics Devices			Digital Electronics		
Date	Topic	Timing	Date	Topic	Timing
Recorded	Energy Band Diagram	6:30PM - 7:30PM	Recorded	Orientation	4 PM - 5 PM
Recorded	Types of Semiconductor	6:30PM - 7:30PM	Recorded	Introduction to Number systems	4 PM - 5 PM
Recorded	Resistivity and Conductivity of Semiconductor	6:30PM - 7:30PM	Recorded	Addition in different base	4 PM - 5 PM
Recorded	Hall Effect	6:30PM - 7:30PM	Recorded	Subtraction in Different Base	4 PM - 5 PM
Recorded	Practice Questions	6:30PM - 7:30PM	Recorded	Complements	4 PM - 5 PM
Recorded	PN Junction Diodes	6:30PM - 7:30PM	Recorded	Interconversions part-1	4 PM - 5 PM
Recorded	Characteristics of PN Junction Diodes	6:30PM - 7:30PM	Recorded	Interconversions part-2	4 PM - 5 PM
Recorded	Transistion and Diffusion Capacitance	6:30PM - 7:30PM	Recorded	Binary Codes,BCD	4 PM - 5 PM
Recorded	Zener Diode	6:30PM - 7:30PM	Recorded	Excess-3 and Gray Codes	4 PM - 5 PM
Recorded	Avalanche and Zener Breakdown	6:30PM - 7:30PM	Recorded	Practice Questions	4 PM - 5 PM
Recorded	Rectifiers-1	6:30PM - 7:30PM	Recorded	Axioms and Operations	4 PM - 5 PM
Recorded	Rectifiers-2	6:30PM - 7:30PM	Recorded	Laws of Boolean Algebra	4 PM - 5 PM
Recorded	Clippers	6:30PM - 7:30PM	Recorded	SOP and POS representation part-1	4 PM - 5 PM
Recorded	Clampers	6:30PM - 7:30PM	Recorded	SOP and POS representation part-2	4 PM - 5 PM
Recorded	Practice Questions	6:30PM - 7:30PM	Recorded	Basic Gates	4 PM - 5 PM
Recorded	Transistors and Its working	6:30PM - 7:30PM	Recorded	Special Gates	4 PM - 5 PM
Recorded	Confuguration and Characteristics of Transistors	6:30PM - 7:30PM	Recorded	Universal Gates	4 PM - 5 PM
Recorded	Current Components in BJT	6:30PM - 7:30PM	Recorded	Circuits of Gates	4 PM - 5 PM
Recorded	Early Effect	6:30PM - 7:30PM	Recorded	Adders	4 PM - 5 PM
Recorded	Mode of Operation	6:30PM - 7:30PM	Recorded	Subtractors	4 PM - 5 PM
Recorded	Applications of Transistor	6:30PM - 7:30PM	Recorded	Multiplexers part-1	4 PM - 5 PM
Recorded	BJT amplifiers - 1	6:30PM - 7:30PM	Recorded	Multiplexers part-2	4 PM - 5 PM
Recorded	BJT amplifiers - 2	6:30PM - 7:30PM	Recorded	Demultiplexers and Decoders	4 PM - 5 PM

Recorded	Power amplifiers	6:30PM - 7:30PM	Recorded	Practice Questions	4 PM - 5 PM
Recorded	Sinusoidal Oscillator & Phase shift Oscillator	6:30PM - 7:30PM	Recorded	Introduction to flip flops	4 PM - 5 PM
Recorded	Wien Bridge Oscillator	6:30PM - 7:30PM	Recorded	Different types of Flip flops	4 PM - 5 PM
Recorded	Colpitts and Hartley Oscillators	6:30PM - 7:30PM	Recorded	Counters Basics	4 PM - 5 PM
Recorded	Multivibrator - 1	6:30PM - 7:30PM	Recorded	Counters Basics	4 PM - 5 PM
Recorded	Multivibrator - 2	6:30PM - 7:30PM	Recorded	Practice Questions	4 PM - 5 PM
Friday, December 26, 2025	Practice Questions	6:30PM - 7:30PM	Friday, December 26, 2025	A/D Convertors	4 PM - 5 PM
Monday, December 29, 2025	Inverter and UPS	6:30PM - 7:30PM	Monday, December 29, 2025	D/A Convertors	4 PM - 5 PM
Tuesday, December 30, 2025	Working of Triode	6:30PM - 7:30PM	Tuesday, December 30, 2025	Practice Questions	4 PM - 5 PM
Wednesday, December 31, 2025	Triode Circuits	6:30PM - 7:30PM	Wednesday, December 31, 2025	Memories	4 PM - 5 PM
END OF SUBJECT			Ashish sir - Measurement and instrumentation		
Linear Integrated Circuits			Date	Topic	Timing
			Recorded	Introduction to Electrical & Electronics Engineering Measurements	Recorded
			Recorded	Method of Measurement and Static Characteristics of Instruments	Recorded
			Recorded	Static Characteristics of Instruments	Recorded
Date	Topic	Timing	Recorded	Dynamic Characteristics of Instruments	Recorded
Monday, January 5, 2026	Introduction	4 PM - 5 PM	Recorded	Error Analysis Part-1	Recorded
Tuesday, January 6, 2026	Construction and Properties part-1	4 PM - 5 PM	Recorded	Error Analysis Part-2	Recorded
Wednesday, January 7, 2026	Construction and Properties part-2	4 PM - 5 PM	Recorded	Error Analysis Part-3	Recorded
Thursday, January 8, 2026	Linear applications part-1	4 PM - 5 PM	Recorded	Types of Dampings and torques Part-1	Recorded
Friday, January 9, 2026	Linear applications part-2	4 PM - 5 PM	Recorded	Types of Dampings and torques Part-2	Recorded
Monday, January 12, 2026	Non Linear applications part-1	4 PM - 5 PM	Recorded	PMMC Part-1	Recorded
Tuesday, January 13, 2026	Non Linear applications part-2	4 PM - 5 PM	Recorded	PMMC Part-2	Recorded
Wednesday, January 14, 2026	Voltage regulators	4 PM - 5 PM	Recorded	Rectifier type instruments	Recorded
Thursday, January 15, 2026	Miscellaneous	4 PM - 5 PM	Recorded	Ratio Meter & Megger	Recorded
Friday, January 16, 2026	Introduction	4 PM - 5 PM	Recorded	Moving iron type instruments -1	Recorded
Monday, January 19, 2026	Question on Timers	4 PM - 5 PM	Recorded	Moving iron type instruments -2	Recorded
Tuesday, January 20, 2026					

Wednesday, January 21, 2026	Phase loked loop	4 PM - 5 PM	Recorded	Power factor meter, flux meter, Frequency meter	Recorded
END OF SUBJECT			Recorded	Measurement of Power-1	Recorded
Data Communication and Network			Recorded	Measurement of Power-2	Recorded
			Recorded	Energy meter -1	Recorded
			Recorded	Energy meter -2	Recorded
			Recorded	Instrument transformers Part-1	Recorded
Date	Topic	Timing	Recorded	Instrument transformers Part-2	Recorded
Monday, January 26, 2026	Data Communication	Recorded	Recorded	CRO - 1	Recorded
Tuesday, January 27, 2026	Hardware and interface - 1	Recorded	Recorded	CRO - 2	Recorded
Wednesday, January 28, 2026	Hardware and interface - 2	Recorded	Recorded	AC bridges=1	Recorded
Thursday, January 29, 2026	OSI layers	Recorded	Recorded	AC bridges=2	Recorded
Friday, January 30, 2026	LAN, MAN, WAN	Recorded	Recorded	Transducers Part-1	Recorded
Monday, February 2, 2026	Network Topologies	Recorded	Recorded	Transducers Part-2	Recorded
Tuesday, February 3, 2026	Objective Questions	Recorded	END OF SUBJECT		
Wednesday, February 4, 2026	Ethernet	Recorded	Ashish SIR : Network Theory		
Thursday, February 5, 2026	IP addresses	Recorded			
Friday, February 6, 2026	internet working	Recorded			
END OF SUBJECT					
Communication Engineering			Date	Topic	Timing
			Recorded	Classification of Element	Recorded
			Recorded	Circuit Element (R,L,C)	Recorded
Date	Topic	Timing	Recorded	Classification of Source	Recorded
Recorded	Introduction	Recorded	Recorded	Ohm's Law and Kirchoff's Law	Recorded
Recorded	Modulation requirements	Recorded	Recorded	Nodal Analysis and Source Transformation	Recorded
Recorded	Amplitude modulation part-1	Recorded	Recorded	Mesh Analysis	Recorded
Recorded	Amplitude modulation part-2	Recorded	Recorded	Current and Voltage Division Rule, Star-Delta Conversion	Recorded
Recorded	Amplitude modulation part-2	Recorded	Recorded	Equivalent Connection of Source and Tellegen's Theorem	Recorded
Recorded	DSBSC Modulation and demodulation	Recorded	Recorded	Thvenin's and Norton's Theorem	Recorded
Recorded	SSB SC Modulation and demodulation	Recorded	Recorded	Maximum Power Transfer Theorem and Compensation Theorem	Recorded

Recorded	VSB modulation and demodulation	Recorded	Recorded	Superposition Theorem and Substitution Theorem	Recorded
Recorded	Practice Questions	Recorded	Recorded	Milliman's Theorem and Reciprocity Theorem	Recorded
Recorded	Introduction	Recorded	Recorded	Alternating Voltage and Current	Recorded
Recorded	Phase and frequency modulation parameters	Recorded	Recorded	Why Sine Waveform? Generation of Alternating Voltage and Current	Recorded
Recorded	Modulation and demodulation techniques	Recorded	Recorded	Important AC terminology	Recorded
Recorded	Receivers part-1	Recorded	Recorded	Complex Waveform and Phasor Representation of Sinusoidal Quantities	Recorded
Recorded	Receivers part-2	Recorded	Recorded	AC Circuit containing Pure R (or) L (or) C Only	Recorded
Recorded	Receivers part-3	Recorded	Recorded	R-L Series A.C. Circuit	Recorded
Recorded	Block Diagram of PCM	Recorded	Recorded	R-C Series A.C Circuit	Recorded
Recorded	Sampling criteria	Recorded	Recorded	R-L-C Series A.C Circuit and Resonance in series AC Circuit	Recorded
Recorded	Quantization	Recorded	Recorded	Variation of Voltages Across R/L/C with Frequency	Recorded
Recorded	Intersymbol interference	Recorded	Recorded	Quality Factor, Bandwidth of series RLC Circuit	Recorded
Recorded	Frequency division multiplexing	Recorded	Recorded	Parallel RLC Circuit and Resonance in parallel AC Circuit	Recorded
Recorded	Time division multiplexing	Recorded	Recorded	Bandwidth, Cutoff Frequencies and Variation of Voltages Across R/L/C with Frequency of parallel resonance circuit	Recorded
Recorded	Wave Propagation - 1	Recorded	Recorded	Methods of Solving Parallel AC Circuit	Recorded
Recorded	Wave Propagation - 2	Recorded	Recorded	Important Admittance in parallel AC Circuit	Recorded
Recorded	Equivalent Circuit of TL	Recorded	Recorded	Concept of Three phase Circuit - Star/Delta Connection and Power Relation	Recorded
Recorded	Lossless and distortionless TL	Recorded	Recorded	Basic of Magnetism	Recorded
Recorded	Input impedance of TL	Recorded	Recorded	Concept of Electromagnetism and Force on Current Carrying Conductor	Recorded
Recorded	Reflection coefficient and VSWR	Recorded	Recorded	Important terms of Magnetic Circuit	Recorded
Recorded	Practice Questions	Recorded	Recorded	B-H Curve and Hysteresis Loss	Recorded
Recorded	Smith Chart	Recorded	Recorded	Basic of Electromagnetic Induction-Self and mutual induction	Recorded
Recorded	Radar range equation	Recorded	Recorded	Inductor in series and parallel with and without mutual inductance	Recorded
Recorded	Satellite Communication - 1	Recorded	Recorded	Cells and Batteries	Recorded
Recorded	Satellite Communication - 2	Recorded	Recorded	Concept of Graph, Cut-set and Loops	Recorded
Recorded	Cellular Communication - 1	Recorded	Recorded	Concept of graph Theory	Recorded

Recorded	Cellular Communication - 2	Recorded	Recorded	Loop and Cut-set Analysis	Recorded
<b>Ashish Sir : Control system</b>			Recorded	Impedance (Z) and Admittance (Y) Parameter	Recorded
			Recorded	Transmission (ABCD) , Hybrid (h), and Inverse Hybrid Parameter	Recorded
			Recorded	Interconnection Two Port Networks	Recorded
<b>Date</b>	<b>Topic</b>	<b>Timing</b>	Recorded	Basic of Transient	Recorded
Recorded	Basic of Control System	3:00 PM - 4:00 PM	Recorded	Source Free Circuits (RL and RC)	Recorded
Recorded	Transfer Function Analysis of AC and DC servomotor	3:00 PM - 4:00 PM	Recorded	Source Free Circuits (series and parallel RLC)	Recorded
Recorded	Control system Representation	3:00 PM - 4:00 PM	Recorded	Step Response of First Order Circuits (RL and RC)	Recorded
Recorded	Time Response Analysis Part-1	3:00 PM - 4:00 PM	Recorded	Step Response of Second Order Circuits (Series and Parallel RLC)	Recorded
Recorded	Time Response Analysis Part-2	3:00 PM - 4:00 PM	<b>Microprocessor &amp; Microcontroller</b>		
Recorded	Routh Hurwitz Criterion, Root Locus	3:00 PM - 4:00 PM			
Recorded	Bode Plotting using semi log graph paper	3:00 PM - 4:00 PM			
Recorded	Compensator	3:00 PM - 4:00 PM	<b>Date</b>	<b>Topic</b>	<b>Timing</b>
Recorded	Controller	3:00 PM - 4:00 PM	Recorded	Microprocessor-1	Recorded
			Recorded	Microprocessor-2	Recorded
			Recorded	Microprocessor-3	Recorded
			Recorded	Microprocessor-4	Recorded
			Recorded	Microprocessor-5	Recorded
			Recorded	Microprocessor-6	Recorded
			Recorded	Microprocessor-7	Recorded
			Recorded	Microprocessor-8	Recorded
			Recorded	Microprocessor-9	Recorded
			Recorded	Microprocessor-10	Recorded