

STUDY PLAN

Ashish SIR : Power System			Ashish SIR : Network Theory		
Date	Topic	Timing	Date	Topic	Timing
Recorded	Hydroelectric Power Plant and Nuclear Power Plant	Recorded	Recorded	Classification of Element	Recorded
Recorded	Diesel Power Plant and Conventional Power Generation	Recorded	Recorded	Circuit Element (R,L,C)	Recorded
Recorded	Important Terms and Factor	Recorded	Recorded	Classification of Source	Recorded
Recorded	Load Curves and Selection of Generating Units	Recorded	Recorded	Ohm's Law and Kirchoff's Law	Recorded
Recorded	Power system introduction , materials	Recorded	Recorded	Nodal Analysis and Source Transformation	Recorded
Recorded	Modelling and short line	Recorded	Recorded	Mesh Analysis	Recorded
Recorded	Medium and long transmission line	Recorded	Recorded	Current and Voltage Division Rule, Star-Delta Conversion	Recorded
Recorded	Ferranti effect	Recorded	Recorded	Equivalent Connection of Source and Tellegen's Theorem	Recorded
Recorded	Concept of star and delta load	Recorded	Recorded	Thvenin's and Norton's Theorem	Recorded
Recorded	Concept of source and sink, high power factor	Recorded	Recorded	Maximum Power Transfer Theorem and Compensation Theorem	Recorded
Recorded	Relation between voltage and reactive power control	Recorded	Recorded	Superposition Theorem and Substitution Theorem	Recorded
Recorded	Shunt capacitor	Recorded	Recorded	Milliman's Theorem and Reciprocity Theorem	Recorded
Recorded	Shunt reactor , series capacitor	Recorded	Recorded	Alternating Voltage and Current	Recorded
Recorded	SPM, OLTC and Booster transformer	Recorded	Recorded	Why Sine Waveform? Generation of Alternating Voltage and Current	Recorded
Recorded	Calculation of R , L , C	Recorded	Recorded	Important AC terminology	Recorded
Tuesday, August 19, 2025	Bundle conductor	5:00 PM - 6:00 PM	Recorded	Complex Waveform and Phasor Representation of Sinusoidal Quantities	Recorded
Wednesday, August 20, 2025	Corona analysis	5:00 PM - 6:00 PM	Recorded	AC Circuit containing Pure R (or) L (or) C Only	Recorded
Thursday, August 21, 2025	Insulators analysis	5:00 PM - 6:00 PM	Recorded	R-L Series A.C. Circuit	Recorded
Friday, August 22, 2025	Sag and tension	5:00 PM - 6:00 PM	Recorded	R-C Series A.C Circuit	Recorded
Monday, August 25, 2025	Underground power cable analysis	5:00 PM - 6:00 PM	Recorded	R-L-C Series A.C Circuit and Resonance in series AC Circuit	Recorded
Tuesday, August 26, 2025	Per unit parameters	5:00 PM - 6:00 PM	Recorded	Variation of Voltages Across R/L/C with Frequency	Recorded
Wednesday, August 27, 2025	Balanced 3 phase circuit	5:00 PM - 6:00 PM	Recorded	Quality Factor, Bandwidth of series RLC Circuit	Recorded

Thursday, August 28, 2025	Single line diagram	5:00 PM - 6:00 PM	Recorded	Parallel RLC Circuit and Resonance in parallel AC Circuit	Recorded
Friday, August 29, 2025	Fundamentals of fault , classification	5:00 PM - 6:00 PM	Recorded	Bandwidth, Cutoff Frequencies and Variation of Voltages Across R/L/C with Frequency of parallel resonance circuit	Recorded
Monday, September 1, 2025	General Characteristics of fault, generator	5:00 PM - 6:00 PM	Recorded	Methos of Solving Parallel AC Circuit	Recorded
Tuesday, September 2, 2025	Symmetrical fault	5:00 PM - 6:00 PM	Recorded	Important Admittance in parallel AC Circuit	Recorded
Wednesday, September 3, 2025	Symmetrical componets	5:00 PM - 6:00 PM	Recorded	Concept of Three phase Circuit - Star/Delta Connection and Power Relation	Recorded
Thursday, September 4, 2025	Unsymmetrical fault	5:00 PM - 6:00 PM	Recorded	Basic of Magnetism	Recorded
Friday, September 5, 2025	Introduction to protection	5:00 PM - 6:00 PM	Tuesday, August 19, 2025	Concept of Electromagnetism and Force on Current Carrying Cunductor	1:30PM-2:30-PM
Monday, September 8, 2025	Relays-1	5:00 PM - 6:00 PM	Wednesday, August 20, 2025	Important terms of Magnetic Circuit	1:30PM-2:30-PM
Tuesday, September 9, 2025	Relays-2	5:00 PM - 6:00 PM	Thursday, August 21, 2025	B-H Curve and Hystersis Loss	1:30PM-2:30-PM
Wednesday, September 10, 2025	Circuit breaker-1	5:00 PM - 6:00 PM	Friday, August 22, 2025	Basic of Electromagnetic Induction-Self and mutual induction	1:30PM-2:30-PM
Thursday, September 11, 2025	Circuit breaker-2	5:00 PM - 6:00 PM	Monday, August 25, 2025	Inductor in series and parallel with and without mutual inductance	1:30PM-2:30-PM
Friday, September 12, 2025	Complete power system generation-1	5:00 PM - 6:00 PM	Tuesday, August 26, 2025	Cells and Batteries	1:30PM-2:30-PM
Monday, September 15, 2025	Complete power system generation-2	5:00 PM - 6:00 PM	Wednesday, August 27, 2025	Concept of Graph, Cut-set and Loops	1:30PM-2:30-PM
Tuesday, September 16, 2025	Live doubt and miscellaneous-1	5:00 PM - 6:00 PM	Thursday, August 28, 2025	Concept of graph Theory	1:30PM-2:30-PM
Wednesday, September 17, 2025	Live doubt and miscellaneous-2	5:00 PM - 6:00 PM	Friday, August 29, 2025	Loop and Cut-set Analysis	1:30PM-2:30-PM
Thursday, September 18, 2025	Live doubt and miscellaneous-3	5:00 PM - 6:00 PM	Monday, September 1, 2025	Impedance (Z) and Admittance (Y) Parameter	1:30PM-2:30-PM
END OF SUBJECT			Tuesday, September 2, 2025	Transmission (ABCD) , Hybrid (h), and Inverse Hybrid Parameter	1:30PM-2:30-PM
Ashish SIR : Electrical Machine			Wednesday, September 3, 2025	Interconnection Two Port Networks	1:30PM-2:30-PM
Date	Topic	Timing	Thursday, September 4, 2025	Basic of Transient	1:30PM-2:30-PM
Monday, September 1, 2025	Fundamentals of machine, Basics of transformer	2:00PM 3:30PM	Friday, September 5, 2025	Source Free Circuits (RL and RC)	1:30PM-2:30-PM
Tuesday, September 2, 2025	Shell type and core type	2:00PM 3:30PM	Monday, September 8, 2025	Source Free Circuits (series and parallel RLC)	1:30PM-2:30-PM
Wednesday, September 3, 2025	Principle, ideal transformers, EMF equation	2:00PM 3:30PM	Tuesday, September 9, 2025	Step Response of First Order Circuits (RL and RC)	1:30PM-2:30-PM
Thursday, September 4, 2025	Phasor diagram, Impedance transformer, rating of transformer	2:00PM 3:30PM	Wednesday, September 10, 2025	Step Response of Second Order Circuits (Series and Parallel RLC)	1:30PM-2:30-PM
Friday, September 5, 2025	Equivalent cricuit	2:00PM 3:30PM	END OF SUBJECT		
Monday, September 8, 2025	OC test and SC test and Sumpner Test	2:00PM 3:30PM	Measurement and instrumentation		
Tuesday, September 9, 2025	Voltage regulation	2:00PM 3:30PM	Date	Topic	Timing
Wednesday, September 10, 2025	Losses in transformer	2:00PM 3:30PM	Recorded	Methods of measurements, type of instruments	Recorded
Thursday, September 11, 2025	Efficiency of a Transformer	2:00PM 3:30PM	Recorded	Basic Characteristics of an Instrument & Error Analysis	Recorded
Friday, September 12, 2025	Parallel Operation of Single Phase Transformer	2:00PM 3:30PM	Recorded	Types of Deflection, Damping and Controlling Torque	Recorded
Monday, September 15, 2025	Auto transformer	2:00PM 3:30PM	Recorded	classification of analog instruments, mcq	Recorded
Tuesday, September 16, 2025	3 phase transformer-1	2:00PM 3:30PM	Recorded	Basic Galvanometer, PMMC & MI instruments	Recorded
Wednesday, September 17, 2025	3 phase transformer-2	2:00PM 3:30PM	Recorded	Electrodyanamometer instruments	Recorded

Thursday, September 18, 2025	DC generator introduction	2:00PM 3:30PM	Recorded	Thermal instruments electrostatic instruments rectifier type	Recorded
Friday, September 19, 2025	Construction of DC machine	2:00PM 3:30PM	Recorded	Requirement of Range Extension and Basic DC Ammeter & Voltmeter	Recorded
Monday, September 22, 2025	Classification of windings and its analysis	2:00PM 3:30PM	Recorded	Loading Effect Due to Voltmeter Resistance	Recorded
Tuesday, September 23, 2025	EMF equation & Classification of generators	2:00PM 3:30PM	Recorded	Property , materials, measurments of low resistance	Recorded
Wednesday, September 24, 2025	Armature Reaction	2:00PM 3:30PM	Recorded	Measurments of medium resistance	Recorded
Thursday, September 25, 2025	Commutation & interpolar winding	2:00PM 3:30PM	Recorded	Measurments of high resistance	Recorded
Friday, September 26, 2025	DC Generator Characteristics	2:00PM 3:30PM	Recorded	Measurments of inductance-1	Recorded
Monday, September 29, 2025	Voltage buildup condition and Critical Condition	2:00PM 3:30PM	Recorded	Measurments of inductance-2	Recorded
Tuesday, September 30, 2025	Voltage Regulation and Parallel Operation of DC Generator	2:00PM 3:30PM	Recorded	Capacitance and special bridges	Recorded
Wednesday, October 1, 2025	DC motor introduction	2:00PM 3:30PM	Recorded	DC and AC power,introduction to wattmeter	Recorded
Thursday, October 2, 2025	Classification of DC motor	2:00PM 3:30PM	Recorded	Blondel theorem , two WM method, Single WM method	Recorded
Friday, October 3, 2025	Significance of back emf and torque analysis	2:00PM 3:30PM	Recorded	Errors in Wattmeter	Recorded
Monday, October 6, 2025	DC Motor Characterstic	2:00PM 3:30PM	Recorded	Induction Type Energy Meter	Recorded
Tuesday, October 7, 2025	DC Motor Losses and Efficiency	2:00PM 3:30PM	Recorded	Measurement of Frequency	Recorded
Wednesday, October 8, 2025	Speed control of motor	2:00PM 3:30PM	Recorded	Measurement of Power Factor	Recorded
Thursday, October 9, 2025	DC Motor Starter	2:00PM 3:30PM	Recorded	Basics and construction of CRO	Recorded
Friday, October 10, 2025	Breaking and testing	2:00PM 3:30PM	Recorded	Measurement of phase and frequency	Recorded
Monday, October 13, 2025	3 phase IM introduction and construction	2:00PM 3:30PM	Recorded	Operation modes of CRO and Special CRO	Recorded
Tuesday, October 14, 2025	Slip and rotor circuit parameters	2:00PM 3:30PM	Recorded	AC Potentiometers	Recorded
Wednesday, October 15, 2025	Torque Slip characteristics	2:00PM 3:30PM	Recorded	Basic Potentiometer Circuit &Crompton's Potentiometer Circuit	Recorded
Thursday, October 16, 2025	Starting methods	2:00PM 3:30PM	Recorded	Strain gauges, LVDT, RTD. thermistor and pyrometer	Recorded
Friday, October 17, 2025	Speed control of Induction Motor	2:00PM 3:30PM	Recorded	Construction , principle, application of Q- meter	Recorded
Monday, October 20, 2025	Testing of Indction motor	2:00PM 3:30PM	Recorded	CT & PT and Burden of Instrument Transformer	Recorded
Ashish SIR : Control system			Recorded	basic of DVM and its Extension, Type of DVM	Recorded
			Recorded	basic of Electronic AC Voltmeter and its principle operation	Recorded
			Recorded	Type of Electronic AC Voltmeters	Recorded
Date	Topic	Timing	Recorded	Live doubt and miscellaneous-1	Recorded
Saturday, September 20, 2025	Basic of Control System	5:00 PM - 6:00 PM	Recorded	Live doubt and miscellaneous-2	Recorded
Monday, September 22, 2025	Transfer Function Analysis of AC and DC servomotor	5:00 PM - 6:00 PM	Recorded	Live doubt and miscellaneous-3	Recorded
Tuesday, September 23, 2025	Control system Representation	5:00 PM - 6:00 PM	Basic Electronics		
Wednesday, September 24, 2025	Time Response Analysis Part-1	5:00 PM - 6:00 PM	Date	Topic	Timing
Thursday, September 25, 2025	Time Response Analysis Part-2	5:00 PM - 6:00 PM	Recorded	Orientation	Recorded

Friday, September 26, 2025	Routh Hurwitz Criterion, Root Locus	5:00 PM - 6:00 PM	Recorded	Introduction to Number systems	Recorded
Saturday, September 27, 2025	Bode Plotting using semi log graph paper	5:00 PM - 6:00 PM	Recorded	Addition in different base	Recorded
Sunday, September 28, 2025	Compensator	5:00 PM - 6:00 PM	Recorded	Subtraction in Different Base	Recorded
Monday, September 29, 2025	Controller	5:00 PM - 6:00 PM	Recorded	Complements	Recorded
Ashish SIR : Estimation & Coasting			Recorded	Interconversions part-1	Recorded
			Recorded	Interconversions part-2	Recorded
			Recorded	Binary Codes,BCD	Recorded
Date	Topic	Timing	Recorded	Excess-3 and Gray Codes	Recorded
Wednesday, October 1, 2025	Class -1	5:00 PM - 6:00 PM	Recorded	Practice Questions	Recorded
Thursday, October 2, 2025	Class -2	5:00 PM - 6:00 PM	Recorded	Axioms and Operations	Recorded
Friday, October 3, 2025	Class -3	5:00 PM - 6:00 PM	Recorded	Laws of Boolean Algebra	Recorded
Monday, October 6, 2025	Class -4	5:00 PM - 6:00 PM	Recorded	SOP and POS representation part-1	Recorded
Tuesday, October 7, 2025	Class -5	5:00 PM - 6:00 PM	Recorded	SOP and POS representation part-2	Recorded
Ashish SIR : UEE			Recorded	Basic Gates	Recorded
			Recorded	Special Gates	Recorded
			Recorded	Universal Gates	Recorded
Date	Topic	Timing	Recorded	Circuits of Gates	Recorded
Wednesday, October 8, 2025	Type of Motor and Characteristics	5:00 PM - 6:00 PM	Recorded	Adders	Recorded
Thursday, October 9, 2025	Type of loads	5:00 PM - 6:00 PM	Recorded	Subtractors	Recorded
Friday, October 10, 2025	System of electric traction and track electrification	5:00 PM - 6:00 PM	Recorded	Multiplexers part-1	Recorded
Monday, October 13, 2025	Speed-time curves for different services	5:00 PM - 6:00 PM	Recorded	Multiplexers part-2	Recorded
Tuesday, October 14, 2025	Calculation of various quantities of Electrical Traction	5:00 PM - 6:00 PM	Recorded	Demultiplexers and Decoders	Recorded
Wednesday, October 15, 2025	Methods of Electrical Heating	5:00 PM - 6:00 PM	Recorded	Practice Questions	Recorded
Thursday, October 16, 2025	Methods of Electrical Welding	5:00 PM - 6:00 PM	Recorded	Introduction to flip flops	Recorded
Friday, October 17, 2025	Introduction and terms used in Illumination	5:00 PM - 6:00 PM	Recorded	Different types of Flip flops	Recorded
Monday, October 20, 2025	Discharge Lamps, MV and SV Lamps	5:00 PM - 6:00 PM	Recorded	Counters Basics	Recorded
Tuesday, October 21, 2025	Basic Principle of Light Control , Types and design of lightning and flood lighting	5:00 PM - 6:00 PM	Recorded	Counters Basics	Recorded
END OF SUBJECT			Recorded	Practice Questions	Recorded
			Recorded	A/D Convertors	Recorded
			Recorded	D/A Convertors	Recorded
			Recorded	Practice Questions	Recorded
			Recorded	Memories	Recorded

				Power Electronics		
				Date	Title	Time
				Recorded	Power Electronics -1	Recorded
				Recorded	Power Electronics -2	Recorded
				Recorded	Power Electronics -3	Recorded
				Recorded	Power Electronics -4	Recorded
				Recorded	Power Electronics -5	Recorded
				Recorded	Power Electronics -6	Recorded
				Recorded	Power Electronics -7	Recorded
				Recorded	Power Electronics -8	Recorded
				Recorded	Power Electronics -9	Recorded
				Recorded	Power Electronics -10	Recorded
				Recorded	Power Electronics -11	Recorded
				Recorded	Power Electronics -12	Recorded
				Recorded	Power Electronics -13	Recorded
				Recorded	Power Electronics -14	Recorded
				Recorded	Power Electronics -15	Recorded
				Recorded	Power Electronics -16	Recorded
				Recorded	Power Electronics -17	Recorded
				Recorded	Power Electronics -18	Recorded

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