STUDY PLAN

Ashish SIR : Electrical Machine			Ashish SIR: Basic Electronics		
Date	**Topic**	**Timing**	**Date**	**Topic**	**Timing**
Recorded	Introduction to Electrical Machines	2:30PM 3:30PM	Wednesday, December 10, 2025	Introduction to Basic Electronics	5:00PM - 6:00PM
Recorded	Basic Concepts of Magnetic Materials	2:30PM 3:30PM	Thursday, December 11, 2025	Basics of Semiconductor Materials Part-1	5:00PM - 6:00PM
Recorded	Basic concepts of Rotating Machines	2:30PM 3:30PM	Friday, December 12, 2025	Basics of Semiconductor Materials Part-2	5:00PM - 6:00PM
Recorded	Working of DC Generators	2:30PM 3:30PM	Monday, December 15, 2025	Semiconductor Physics Part-1	5:00PM - 6:00PM
Recorded	Constrution of DC Machines	2:30PM 3:30PM	Tuesday, December 16, 2025	Semiconductor Physics Part-2	5:00PM - 6:00PM
Recorded	Commutator & Types of Windings	2:30PM 3:30PM	Wednesday, December 17, 2025	PN Junction Diode Part-1	5:00PM - 6:00PM
Recorded	Emf Equation of DC Generators	2:30PM 3:30PM	Thursday, December 18, 2025	PN Junction Diode Part-2	5:00PM - 6:00PM
Recorded	Type of DC Generators	2:30PM 3:30PM	Friday, December 19, 2025	Zener Diode Part -1	5:00PM - 6:00PM
Recorded	Questions on DC Generators	2:30PM 3:30PM	Monday, December 22, 2025	Zener Diode Part -2	5:00PM - 6:00PM
Recorded	Armature reaction of DC Generators-1	2:30PM 3:30PM	Tuesday, December 23, 2025	Tunnel diode, LED	5:00PM - 6:00PM
Recorded	Armature reaction of DC Generators-2	2:30PM 3:30PM	Wednesday, December 24, 2025	PhotoDiode, Shottcky Diode	5:00PM - 6:00PM
Recorded	Commutation in DC Machines	2:30PM 3:30PM	Thursday, December 25, 2025	BJT Part-1	5:00PM - 6:00PM
Recorded	Methods of improving commutations	2:30PM 3:30PM	Friday, December 26, 2025	BJT Part-2	5:00PM - 6:00PM
Recorded	Characteristics of DC Generators	2:30PM 3:30PM	Monday, December 29, 2025	BJT Part-3	5:00PM - 6:00PM
Recorded	Basic Principle of Motor	2:30PM 3:30PM	Tuesday, December 30, 2025	BJT Part-4	5:00PM - 6:00PM
Recorded	Torque Equation of DC Motors	2:30PM 3:30PM	Wednesday, December 31, 2025	BJT Part-5	5:00PM - 6:00PM
Recorded	Speed control of DC Motors	2:30PM 3:30PM	Thursday, January 1, 2026	BJT Part-6	5:00PM - 6:00PM
Recorded	Starting and Braking methods of DC Motors	2:30PM 3:30PM	Friday, January 2, 2026	BJT Part-7	5:00PM - 6:00PM
Recorded	Efficiency and testing methods of DC Motors	2:30PM 3:30PM	Monday, January 5, 2026	FeedBack Amplifier	5:00PM - 6:00PM

Recorded	Basics of Transformers	2:30PM 3:30PM	Tuesday, January 6, 2026	Power amplifier	5:00PM - 6:00PM
Recorded	Construction of transformers & Emf Equation of transformers,	2:30PM 3:30PM	Wednesday, January 7, 2026	FET introduction and working	5:00PM - 6:00PM
Recorded	Equivalent circuit, O.C.& S.C. Tests	2:30PM 3:30PM	Thursday, January 8, 2026	MCQs on FET	5:00PM - 6:00PM
Wednesday, December 10, 2025	Voltage regulation of transformers,Losses and efficiency of transformers	2:30PM 3:30PM	Friday, January 9, 2026	MOSFET introduction and working	5:00PM - 6:00PM
Thursday, December 11, 2025	3 Phase transformers,Parallel operation of transformers	2:30PM 3:30PM	Monday, January 12, 2026	Op-amp Part-1	5:00PM - 6:00PM
Friday, December 12, 2025	Construction & Working of 3-Phase Induction Machines	2:30PM 3:30PM	Tuesday, January 13, 2026	Op-amp Part-2	5:00PM - 6:00PM
Monday, December 15, 2025	Working & Equivalent Circuitof 3-Phase Induction Machines	2:30PM 3:30PM	Wednesday, January 14, 2026	Op-amp Part-3	5:00PM - 6:00PM
Tuesday, December 16, 2025	Torque Equation of 3-Phase induction Machines	2:30PM 3:30PM	Thursday, January 15, 2026	Number system Part-1	5:00PM - 6:00PM
Wednesday, December 17, 2025	Torque slip characteristics of 3-phase induction Motors	2:30PM 3:30PM	Friday, January 16, 2026	Number system Part-2	5:00PM - 6:00PM
Thursday, December 18, 2025	Starters & Braking methods of 3-Phase induction machines	2:30PM 3:30PM	Monday, January 19, 2026	Boolean algebra	5:00PM - 6:00PM
Friday, December 19, 2025	Speed control of 3-Phase induction motors	2:30PM 3:30PM	Tuesday, January 20, 2026	Logic Gates	5:00PM - 6:00PM
Monday, December 22, 2025	Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors	2:30PM 3:30PM	Wednesday, January 21, 2026	Basics of Power Electronics Part-1	5:00PM - 6:00PM
Tuesday, December 23, 2025	Consturction and working of 1-Phase induction motors	2:30PM 3:30PM	Thursday, January 22, 2026	Basics of Power Electronics Part-2	5:00PM - 6:00PM
Wednesday, December 24, 2025	Split phase Induction Motors, Capacitor start, Capacitor start capacitor run, Shaded pole Induction Motors	2:30PM 3:30PM	Friday, January 23, 2026	SCR Part-1	5:00PM - 6:00PM
Thursday, December 25, 2025	Hysteresis, Switched Reluctance motors, stepper motors	2:30PM 3:30PM	Monday, January 26, 2026	SCR Part-2	5:00PM - 6:00PM
Friday, December 26, 2025	Construction & Working of 3-phase Synchronous Machines	2:30PM 3:30PM	Tuesday, January 27, 2026	Types of Switches and their working Part-1	5:00PM - 6:00PM
Monday, December 29, 2025	Armature reaction of 3-Phase synchronous generators at unity , Lagging pf & Leading pf	2:30PM 3:30PM	Wednesday, January 28, 2026	Types of Switches and their working Part-2	5:00PM - 6:00PM
Tuesday, December 30, 2025	Voltage Regulation of 3-Phase Synchronous generators	2:30PM 3:30PM	Thursday, January 29, 2026	Types of Switches and their working Part-3	5:00PM - 6:00PM
Wednesday, December 31, 2025	Power flow,Synchronous condenser & important curves in synchronous machines in Synchronous Machines	2:30PM 3:30PM	Friday, January 30, 2026	Miscellnous	5:00PM - 6:00PM
Thursday, January 1, 2026	Parallel Operation of Synchronous Machines	2:30PM 3:30PM	**Ashish Sir : Power Systems**		
Friday, January 2, 2026	Working of 3-Phase synchornous motors	2:30PM 3:30PM	**Date**	**Topic**	**Timing**
Monday, January 5, 2026	Starting methods of synchronous motors, Synchronizing coefficient	2:30PM 3:30PM	Monday, January 5, 2026	Introduction to Power Systems	5:00PM - 6:00PM

Tuesday, January 6, 2026	Testings in Synchronous Machines	2:30PM 3:30PM	Tuesday, January 6, 2026	Generation (Thermal Power plant, Hydro Power Plant)	5:00PM - 6:00PM
Ashish SIR : UEE			Wednesday, January 7, 2026	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	5:00PM - 6:00PM
			Thursday, January 8, 2026	Economic Load factors (Load factor, capacity factor etc.)	5:00PM - 6:00PM
			Friday, January 9, 2026	Per unit method Part-1	5:00PM - 6:00PM
Date	**Topic**	**Timing**	Monday, January 12, 2026	Per unit method Part-2	5:00PM - 6:00PM
Monday, December 22, 2025	Type of Motor and Characterstics	5:00 PM - 6:00 PM	Tuesday, January 13, 2026	Question practice Session	5:00PM - 6:00PM
Tuesday, December 23, 2025	Type of loads	5:00 PM - 6:00 PM	Wednesday, January 14, 2026	Power factor improvement Part-1	5:00PM - 6:00PM
Wednesday, December 24, 2025	System of electric traction and track electrification	5:00 PM - 6:00 PM	Thursday, January 15, 2026	Power factor improvement Part-2	5:00PM - 6:00PM
Thursday, December 25, 2025	Speed-time curves for different services	5:00 PM - 6:00 PM	Friday, January 16, 2026	Power factor improvement Part-3	5:00PM - 6:00PM
Friday, December 26, 2025	Calculation of various quantities of Electrical Traction	5:00 PM - 6:00 PM	Monday, January 19, 2026	Power factor improvement Part - 4	5:00PM - 6:00PM
Monday, December 29, 2025	Methods of Electrical Heating	5:00 PM - 6:00 PM	Tuesday, January 20, 2026	Question practice Session	5:00PM - 6:00PM
Tuesday, December 30, 2025	Methods of Electrical Welding	5:00 PM - 6:00 PM	Wednesday, January 21, 2026	Transmission line parameters Part-1	5:00PM - 6:00PM
Wednesday, December 31, 2025	Introduction and terms used in Illumination	5:00 PM - 6:00 PM	Thursday, January 22, 2026	Transmission line parameters Part-2	5:00PM - 6:00PM
Thursday, January 1, 2026	Discharge Lamps, MV and SV Lamps	5:00 PM - 6:00 PM	Friday, January 23, 2026	Transmission line parameters Part-3	5:00PM - 6:00PM
Friday, January 2, 2026	Basic Principle of Light Control , Types and design of lightning and flood lighting	5:00 PM - 6:00 PM	Monday, January 26, 2026	Short circuit of fault analysis Part -1	5:00PM - 6:00PM
END OF SUBJECT			Tuesday, January 27, 2026	Short circuit of fault analysis Part -2	5:00PM - 6:00PM
Ashish Sir : Control system			Wednesday, January 28, 2026	Question practice Session	5:00PM - 6:00PM
			Thursday, January 29, 2026	Short circuit of fault analysis Part -3	5:00PM - 6:00PM
			Friday, January 30, 2026	Power system stability Part - 1	5:00PM - 6:00PM
Date	**Topic**	**Timing**	Monday, February 2, 2026	Power system stability Part - 2	5:00PM - 6:00PM
Recorded	Basic of Control System	Recorded	Tuesday, February 3, 2026	Switchgear and protection Part-1	5:00PM - 6:00PM
Recorded	Transfer Function Analysis of AC and DC servomotor	Recorded	Wednesday, February 4, 2026	Switchgear and protection Part-2	5:00PM - 6:00PM
Recorded	Control system Representation	Recorded	Thursday, February 5, 2026	Switchgear and protection Part-3	5:00PM - 6:00PM

Recorded	Time Response Analysis Part-1	Recorded	Friday, February 6, 2026	Switchgear and protection Part-4	5:00PM - 6:00PM
Recorded	Time Response Analysis Part-2	Recorded	Monday, February 9, 2026	Switchgear and protection Part-5	5:00PM - 6:00PM
Recorded	Routh Hurwitz Criterion, Root Locus	Recorded	Tuesday, February 10, 2026	Question practice Session	5:00PM - 6:00PM
Recorded	Bode Plotting using semi log graph paper	Recorded	Wednesday, February 11, 2026	Cables, insulators Part -1	5:00PM - 6:00PM
Recorded	Compensator	Recorded	Thursday, February 12, 2026	Cables, insulators Part -2	5:00PM - 6:00PM
Recorded	Controller	Recorded	Friday, February 13, 2026	Circuit Breakers Part -1	5:00PM - 6:00PM
Ashish Sir - Network Theory			Monday, February 16, 2026	Circuit Breakers Part -2	5:00PM - 6:00PM
Date	**Topic**	**Timing**	Tuesday, February 17, 2026	Question practice Session	5:00PM - 6:00PM
Recorded	Electric Potential	Recorded	**Measurement and instrumentation**		
Recorded	Ohms law, Concept of Resistance	Recorded	**Date**	**Topic**	**Timing**
Recorded	Types Of Circuit Elements	Recorded	Recorded	Introduction to Electrical & Electronics Engineering Measurements	Recorded
Recorded	Concept of Inductor	Recorded	Recorded	Error Analysis Part-1	Recorded
Recorded	Concept of Capacitance & Laplace transforms	Recorded	Recorded	Error Analysis Part-2	Recorded
Recorded	Some Functions & Their Laplace Transforms	Recorded	Recorded	Types of Dampings and torques	Recorded
Recorded	Resistance in Series and Parallel & Star Delta conversion	Recorded	Recorded	PMMC	Recorded
Recorded	Capacitance in Series and Parallel	Recorded	Recorded	Rectifier type instruments	Recorded
Recorded	KVL and KCL	Recorded	Recorded	Moving iron type instruments -1	Recorded
Recorded	Question Practice Session	Recorded	Recorded	Moving iron type instruments -2	Recorded
Recorded	Questions Practice Session	Recorded	Recorded		Recorded
Recorded	Network Theorem	Recorded	Recorded	Power factor meter, flux meter, Frequency meter	Recorded
Recorded	(Superposition Theorem)	Recorded	Recorded	Measurement of Power-1	Recorded
Recorded	Thevenin's, Nortons Theorem	Recorded	Recorded	Measurement of Power-2	Recorded
Recorded	Maximum Power Transfer Theorem	Recorded	Recorded	Energy meter -1	Recorded

Recorded	Tellegen's, Milliman's & Reciprocity Theorem	Recorded	Recorded	Energy meter -2	Recorded
Recorded	AC Fundamentals	Recorded	Recorded	Instrument transformers Part-1	Recorded
Recorded	Series Resonance	Recorded	Recorded	Instrument transformers Part-2	Recorded
Recorded	Parallel Resonance	Recorded	Recorded	CRO - 1	Recorded
Recorded	Performance Parameters of Series and Parallel Resonance	Recorded	Recorded	CRO - 2	Recorded
Recorded	Average & RMS values of difference waveforms	Recorded	Recorded	AC bridges 1	Recorded
Recorded	Two Port Networks & Graph Theory	Recorded	Recorded	AC bridges 2	Recorded
Recorded	Graph Theory and Questions	Recorded			
Recorded	Poly phase Network	Recorded			
Recorded	Poly phase Network	Recorded			
Recorded	Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor	Recorded			