



STUDY PLAN

Ashish SIR : Electrical Machine			Ashish Sir : Power Systems			
Date	Topic	Timing	Date	Topic	Timing	
Recorded	Introduction to Electrical Machines	2:30PM 3:30PM	Monday, January 5, 2026	Introduction to Power Systems	5:00PM - 6:00PM	
Recorded	Basic Concepts of Magnetic Materials	2:30PM 3:30PM	Tuesday, January 6, 2026	Generation (Thermal Power plant, Hydro Power Plant)	5:00PM - 6:00PM	
Recorded	Basic concepts of Rotating Machines	2:30PM 3:30PM	Wednesday, January 7, 2026	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	5:00PM - 6:00PM	
Recorded	Working of DC Generators	2:30PM 3:30PM	Thursday, January 8, 2026	Economic Load factors (Load factor, capacity factor etc.)	5:00PM - 6:00PM	
Recorded	Constrution of DC Machines	2:30PM 3:30PM	Friday, January 9, 2026	Per unit method Part-1	5:00PM - 6:00PM	
Recorded	Commutator & Types of Windings	2:30PM 3:30PM	Monday, January 12, 2026	Per unit method Part-2	5:00PM - 6:00PM	
Recorded	Emf Equation of DC Generators	2:30PM 3:30PM	Tuesday, January 13, 2026	Question practice Session	5:00PM - 6:00PM	
Recorded	Type of DC Generators	2:30PM 3:30PM	Wednesday, January 14, 2026	Power factor improvement Part-1	5:00PM - 6:00PM	
Recorded	Questions on DC Generators	2:30PM 3:30PM	Thursday, January 15, 2026	Power factor improvement Part-2	5:00PM - 6:00PM	
Recorded	Armature reaction of DC Generators-1	2:30PM 3:30PM	Friday, January 16, 2026	Power factor improvement Part-3	5:00PM - 6:00PM	
Recorded	Armature reaction of DC Generators-2	2:30PM 3:30PM	Monday, January 19, 2026	Power factor improvement Part - 4	5:00PM - 6:00PM	
Tuesday, November 25, 2025	Commutation in DC Machines	2:30PM 3:30PM	Tuesday, January 20, 2026	Question practice Session	5:00PM - 6:00PM	
Wednesday, November 26, 2025	Methods of improving commutations	2:30PM 3:30PM	Wednesday, January 21, 2026	Transmission line parameters Part-1	5:00PM - 6:00PM	
Thursday, November 27, 2025	Characteristics of DC Generators	2:30PM 3:30PM	Thursday, January 22, 2026	Transmission line parameters Part-2	5:00PM - 6:00PM	
Friday, November 28, 2025	Basic Principle of Motor	2:30PM 3:30PM	Friday, January 23, 2026	Transmission line parameters Part-3	5:00PM - 6:00PM	
Monday, December 1, 2025	Torque Equation of DC Motors	2:30PM 3:30PM	Monday, January 26, 2026	Short circuit of fault analysis Part -1	5:00PM - 6:00PM	
Tuesday, December 2, 2025	Speed control of DC Motors	2:30PM 3:30PM	Tuesday, January 27, 2026	Short circuit of fault analysis Part -2	5:00PM - 6:00PM	
Wednesday, December 3, 2025	Starting and Braking methods of DC Motors	2:30PM 3:30PM	Wednesday, January 28, 2026	Question practice Session	5:00PM - 6:00PM	
Thursday, December 4, 2025	Efficiency and testing methods of DC Motors	2:30PM 3:30PM	Thursday, January 29, 2026	Short circuit of fault analysis Part -3	5:00PM - 6:00PM	
Friday, December 5, 2025	Basics of Transformers	2:30PM 3:30PM	Friday, January 30, 2026	Power system stability Part - 1	5:00PM - 6:00PM	
Monday, December 8, 2025	Construction of transformers & Emf Equation of transformers,	2:30PM 3:30PM	Monday, February 2, 2026	Power system stability Part - 2	5:00PM - 6:00PM	
Tuesday, December 9, 2025	Equivalent circuit, O.C.& S.C. Tests	2:30PM 3:30PM	Tuesday, February 3, 2026	Switchgear and protection Part-1	5:00PM - 6:00PM	

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Wednesday, December 10, 2025	Voltage regulation of transformers,Losses and efficiency of transformers	2:30PM 3:30PM	Wednesday, February 4, 2026	Switchgear and protection Part-2	5:00PM - 6:00PM	
Thursday, December 11, 2025	3 Phase transformers,Parallel operation of transformers	2:30PM 3:30PM	Thursday, February 5, 2026	Switchgear and protection Part-3	5:00PM - 6:00PM	
Friday, December 12, 2025	Construction & Working of 3-Phase Induction Machines	2:30PM 3:30PM	Friday, February 6, 2026	Switchgear and protection Part-4	5:00PM - 6:00PM	
Monday, December 15, 2025	Working & Equivalent Circuitof 3-Phase Induction Machines	2:30PM 3:30PM	Monday, February 9, 2026	Switchgear and protection Part-5	5:00PM - 6:00PM	
Tuesday, December 16, 2025	Torque Equation of 3-Phase induction Machines	2:30PM 3:30PM	Tuesday, February 10, 2026	Question practice Session	5:00PM - 6:00PM	
Wednesday, December 17, 2025	Torque slip characteristics of 3-phase induction Motors	2:30PM 3:30PM	Wednesday, February 11, 2026	Cables, insulators Part -1	5:00PM - 6:00PM	
Thursday, December 18, 2025	Starters & Braking methods of 3-Phase induction machines	2:30PM 3:30PM	Thursday, February 12, 2026	Cables, insulators Part -2	5:00PM - 6:00PM	
Friday, December 19, 2025	Speed control of 3-Phase induction motors	2:30PM 3:30PM	Friday, February 13, 2026	Circuit Breakers Part -1	5:00PM - 6:00PM	
Monday, December 22, 2025	Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors	2:30PM 3:30PM	Monday, February 16, 2026	Circuit Breakers Part -2	5:00PM - 6:00PM	
Tuesday, December 23, 2025	Consturction and working of 1-Phase induction motors	2:30PM 3:30PM	Tuesday, February 17, 2026	Question practice Session	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	Measurement and instrumentation			
Thursday, December 25, 2025	Hysteresis, Switched Reluctance motors, stepper motors	2:30PM 3:30PM	Date	Topic	Timing	
Friday, December 26, 2025	Construction & Working of 3-phase Synchronous Machines	2:30PM 3:30PM	Recorded	Introduction to Electrical & Electronics Engineering Measurements	Recorded	
Monday, December 29, 2025	Armature reaction of 3-Phase synchronous generators at unity , Lagging pf & Leading pf	2:30PM 3:30PM	Recorded	Method of Measurement and Static Characteristics of Instruments	Recorded	
Tuesday, December 30, 2025	Voltage Regulation of 3-Phase Synchronous generators	2:30PM 3:30PM	Recorded	Static Characteristics of Instruments	Recorded	
Wednesday, December 31, 2025	Power flow,Synchronous condenser & important curves in synchronous machines in Synchronous Machines	2:30PM 3:30PM	Recorded	Dynamic Characteristics of Instruments	Recorded	
Thursday, January 1, 2026	Parallel Operation of Synchronous Machines	2:30PM 3:30PM	Recorded	Error Analysis Part-1	Recorded	
Friday, January 2, 2026	Working of 3-Phase synchornous motors	2:30PM 3:30PM	Recorded	Error Analysis Part-2	Recorded	
Monday, January 5, 2026	Starting methods of synchronous motors, Synchronizing coefficient	2:30PM 3:30PM	Recorded	Error Analysis Part-3	Recorded	
Tuesday, January 6, 2026	Testings in Synchronous Machines	2:30PM 3:30PM	Recorded	Types of Dampings and torques Part-1	Recorded	
		Recorded	Types of Dampings and torques Part-2	Recorded		
Ashish SIR : UEE			Recorded	PMMC Part-1	Recorded	
			Recorded	PMMC Part-2	Recorded	
Date	Торіс	Timing	Recorded	Rectifier type instruments	Recorded	
Monday, December 22, 2025	Type of Motor and Characterstics	5:00 PM - 6:00 PM	Recorded	Ratio Meter & Megger	Recorded	
Tuesday, December 23, 2025	Type of loads	5:00 PM - 6:00 PM	Recorded	Moving iron type instruments -1	Recorded	

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Wednesday, December 24, 2025	System of electric traction and track electrification	5:00 PM - 6:00 PM	Recorded	Moving iron type instruments -2	Recorded
Thursday, December 25, 2025	Speed-time curves for different services	5:00 PM - 6:00 PM	Recorded	Power factor meter, flux meter, Frequency meter	Recorded
Friday, December 26, 2025	Calculation of various quantities of Electrical Traction	5:00 PM - 6:00 PM	Recorded	Measurement of Power-1	Recorded
Monday, December 29, 2025	Methods of Electrical Heating	5:00 PM - 6:00 PM	Recorded	Measurement of Power-2	Recorded
Tuesday, December 30, 2025	Methods of Electrical Welding	5:00 PM - 6:00 PM	Recorded	Energy meter -1	Recorded
Wednesday, December 31, 2025	Introduction and terms used in Illumination	5:00 PM - 6:00 PM	Recorded	Energy meter -2	Recorded
Thursday, January 1, 2026	Discharge Lamps, MV and SV Lamps	5:00 PM - 6:00 PM	Recorded	Instrument transformers Part-1	Recorded
Friday, January 2, 2026	Basic Principle of Light Control , Types and design of lightning and flood lighting	5:00 PM - 6:00 PM	Recorded	Instrument transformers Part-2	Recorded
	END OF SUBJECT		Recorded	CRO - 1	Recorded
			Recorded	CRO - 2	Recorded
		Recorded	AC bridges=1	Recorded	
			Recorded	AC bridges=2	Recorded
Date	Topic	Timing	Recorded	Transducers Part-1	Recorded
Recorded	Basic of Control System	Recorded	Recorded	Transducers Part-2	Recorded
Recorded	Transfer Function Analysis of AC and DC servomotor	Recorded			
Recorded	Control system Representation	Recorded			
Recorded	Time Response Analysis Part-1	Recorded			
Recorded	Time Response Analysis Part-2	Recorded			
Recorded	Routh Hurwitz Criterion, Root Locus	Recorded			
Recorded	Bode Plotting using semi log graph paper	Recorded			
Recorded	Compensator	Recorded			
Recorded	Controller	Recorded			

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