STUDY PLAN

Ashish SIR : Electrical Machine		
Date	**Topic**	**Timing**
Wednesday, October 29, 2025	Introduction to Electrical Machines	2:00PM 3:30PM
Thursday, October 30, 2025	Basic Concepts of Magnetic Materials	2:00PM 3:30PM
Friday, October 31, 2025	Basic concepts of Rotating Machines	2:00PM 3:30PM
Monday, November 3, 2025	Working of DC Generators	2:00PM 3:30PM
Tuesday, November 4, 2025	Constrution of DC Machines	2:00PM 3:30PM
Wednesday, November 5, 2025	Commutator & Types of Windings	2:00PM 3:30PM
Thursday, November 6, 2025	Emf Equation of DC Generators	2:00PM 3:30PM
Friday, November 7, 2025	Type of DC Generators	2:00PM 3:30PM
Monday, November 10, 2025	Questions on DC Generators	2:00PM 3:30PM
Tuesday, November 11, 2025	Armature reaction of DC Generators-1	2:00PM 3:30PM
Wednesday, November 12, 2025	Armature reaction of DC Generators-2	2:00PM 3:30PM
Thursday, November 13, 2025	Commutation in DC Machines	2:00PM 3:30PM
Friday, November 14, 2025	Methods of improving commutations	2:00PM 3:30PM
Monday, November 17, 2025	Characteristics of DC Generators	2:00PM 3:30PM
Tuesday, November 18, 2025	Basic Principle of Motor	2:00PM 3:30PM
Wednesday, November 19, 2025	Torque Equation of DC Motors	2:00PM 3:30PM
Thursday, November 20, 2025	Speed control of DC Motors	2:00PM 3:30PM
Friday, November 21, 2025	Starting and Braking methods of DC Motors	2:00PM 3:30PM
Monday, November 24, 2025	Efficiency and testing methods of DC Motors	2:00PM 3:30PM
Tuesday, November 25, 2025	Basics of Transformers	2:00PM 3:30PM
Wednesday, November 26, 2025	Construction of transformers & Emf Equation of transformers,	2:00PM 3:30PM
Thursday, November 27, 2025	Equivalent circuit, O.C.& S.C. Tests	2:00PM 3:30PM

Ashish Sir : Power Systems		
Date	**Topic**	**Timing**
Monday, January 5, 2026	Introduction to Power Systems	5:00PM - 6:00PM
Tuesday, January 6, 2026	Generation (Thermal Power plant, Hydro Power Plant)	5:00PM - 6:00PM
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
Monday, January 12, 2026	Per unit method Part-2	5:00PM - 6:00PM
Tuesday, January 13, 2026	Question practice Session	5:00PM - 6:00PM
Wednesday, January 14, 2026	Power factor improvement Part-1	5:00PM - 6:00PM
Thursday, January 15, 2026	Power factor improvement Part-2	5:00PM - 6:00PM
Friday, January 16, 2026	Power factor improvement Part-3	5:00PM - 6:00PM
Monday, January 19, 2026	Power factor improvement Part - 4	5:00PM - 6:00PM
Tuesday, January 20, 2026	Question practice Session	5:00PM - 6:00PM
Wednesday, January 21, 2026	Transmission line parameters Part-1	5:00PM - 6:00PM
Thursday, January 22, 2026	Transmission line parameters Part-2	5:00PM - 6:00PM
Friday, January 23, 2026	Transmission line parameters Part-3	5:00PM - 6:00PM
Monday, January 26, 2026	Short circuit of fault analysis Part -1	5:00PM - 6:00PM
Tuesday, January 27, 2026	Short circuit of fault analysis Part -2	5:00PM - 6:00PM
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

Friday, November 28, 2025	Voltage regulation of transformers,Losses and efficiency of transformers	2:00PM 3:30PM
Monday, December 1, 2025	3 Phase transformers,Parallel operation of transformers	2:00PM 3:30PM
Tuesday, December 2, 2025	Construction & Working of 3-Phase Induction Machines	2:00PM 3:30PM
Wednesday, December 3, 2025	Working & Equivalent Circuitof 3-Phase Induction Machines	2:00PM 3:30PM
Thursday, December 4, 2025	Torque Equation of 3-Phase induction Machines	2:00PM 3:30PM
Friday, December 5, 2025	Torque slip characteristics of 3-phase induction Motors	2:00PM 3:30PM
Monday, December 8, 2025	Starters & Braking methods of 3-Phase induction machines	2:00PM 3:30PM
Tuesday, December 9, 2025	Speed control of 3-Phase induction motors	2:00PM 3:30PM
Wednesday, December 10, 2025	Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors	2:00PM 3:30PM
Thursday, December 11, 2025	Consturction and working of 1-Phase induction motors	2:00PM 3:30PM
Friday, December 12, 2025	Split phase Induction Motors, Capacitor start, Capacitor start capacitor run, Shaded pole Induction Motors	2:00PM 3:30PM
Monday, December 15, 2025	Hysteresis, Switched Reluctance motors, stepper motors	2:00PM 3:30PM
Tuesday, December 16, 2025	Construction & Working of 3-phase Synchronous Machines	2:00PM 3:30PM
Wednesday, December 17, 2025	Armature reaction of 3-Phase synchronous generators at unity , Lagging pf & Leading pf	2:00PM 3:30PM
Thursday, December 18, 2025	Voltage Regulation of 3-Phase Synchronous generators	
Friday, December 19, 2025	Power flow,Synchronous condenser & important curves in synchronous machines in Synchronous Machines	
Monday, December 22, 2025	Parallel Operation of Synchronous Machines	
Tuesday, December 23, 2025	Working of 3-Phase synchornous motors	
Wednesday, December 24, 2025	Starting methods of synchronous motors, Synchronizing coefficient	
Thursday, December 25, 2025	Testings in Synchronous Machines	

Ashish SIR : UEE		
Date	**Topic**	**Timing**

Monday, February 2, 2026	Power system stability Part - 2	5:00PM - 6:00PM
Tuesday, February 3, 2026	Switchgear and protection Part-1	5:00PM - 6:00PM
Wednesday, February 4, 2026	Switchgear and protection Part-2	5:00PM - 6:00PM
Thursday, February 5, 2026	Switchgear and protection Part-3	5:00PM - 6:00PM
Friday, February 6, 2026	Switchgear and protection Part-4	5:00PM - 6:00PM
Monday, February 9, 2026	Switchgear and protection Part-5	5:00PM - 6:00PM
Tuesday, February 10, 2026	Question practice Session	5:00PM - 6:00PM
Wednesday, February 11, 2026	Cables, insulators Part -1	5:00PM - 6:00PM
Thursday, February 12, 2026	Cables, insulators Part -2	5:00PM - 6:00PM
Friday, February 13, 2026	Circuit Breakers Part -1	5:00PM - 6:00PM
Monday, February 16, 2026	Circuit Breakers Part -2	5:00PM - 6:00PM
Tuesday, February 17, 2026	Question practice Session	5:00PM - 6:00PM

Measurement and instrumentation		
Date	**Topic**	**Timing**
Recorded	Introduction to Electrical & Electronics Engineering Measurements	6:15PM - 7:15PM
Recorded	Method of Measurement and Static Characteristics of Instruments	6:15PM - 7:15PM
Recorded	Static Characteristics of Instruments	6:15PM - 7:15PM
Recorded	Dynamic Characteristics of Instruments	6:15PM - 7:15PM
Recorded	Error Analysis Part-1	6:15PM - 7:15PM
Recorded	Error Analysis Part-2	6:15PM - 7:15PM
Recorded	Error Analysis Part-3	6:15PM - 7:15PM
Recorded	Types of Dampings and torques Part-1	6:15PM - 7:15PM
Recorded	Types of Dampings and torques Part-2	6:15PM - 7:15PM
Recorded	PMMC Part-1	6:15PM - 7:15PM
Recorded	PMMC Part-2	6:15PM - 7:15PM

Monday, December 22, 2025	Type of Motor and Characterstics	5:00 PM - 6:00 PM	Recorded	Rectifier type instruments	6:15PM - 7:15PM
Tuesday, December 23, 2025	Type of loads	5:00 PM - 6:00 PM	Recorded	Ratio Meter & Megger	6:15PM - 7:15PM
Wednesday, December 24, 2025	System of electric traction and track electrification	5:00 PM - 6:00 PM	Recorded	Moving iron type instruments -1	6:15PM - 7:15PM
Thursday, December 25, 2025	Speed-time curves for different services	5:00 PM - 6:00 PM	Recorded	Moving iron type instruments -2	6:15PM - 7:15PM
Friday, December 26, 2025	Calculation of various quantities of Electrical Traction	5:00 PM - 6:00 PM	Recorded	Power factor meter, flux meter, Frequency meter	6:15PM - 7:15PM
Monday, December 29, 2025	Methods of Electrical Heating	5:00 PM - 6:00 PM	Recorded	Measurement of Power-1	6:15PM - 7:15PM
Tuesday, December 30, 2025	Methods of Electrical Welding	5:00 PM - 6:00 PM	Recorded	Measurement of Power-2	6:15PM - 7:15PM
Wednesday, December 31, 2025	Introduction and terms used in Illumination	5:00 PM - 6:00 PM	Recorded	Energy meter -1	6:15PM - 7:15PM
Thursday, January 1, 2026	Discharge Lamps, MV and SV Lamps	5:00 PM - 6:00 PM	Recorded	Energy meter -2	6:15PM - 7:15PM
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-1	6:15PM - 7:15PM
END OF SUBJECT			Recorded	Instrument transformers Part-2	6:15PM - 7:15PM
Ashish Sir : Control system			Recorded	CRO - 1	6:15PM - 7:15PM
			Recorded	CRO - 2	6:15PM - 7:15PM
			Recorded	AC bridges=1	6:15PM - 7:15PM
Date	**Topic**	**Timing**	Recorded	AC bridges=2	6:15PM - 7:15PM
Recorded	Basic of Control System	Recorded	Recorded	Transducers Part-1	6:15PM - 7:15PM
Recorded	Transfer Function Analysis of AC and DC servomotor	Recorded	Recorded	Transducers Part-2	6:15PM - 7:15PM
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			