

STUDY PLAN

Ashish SIR : Electrical Machine			Measurement and instrumentation		
Date	Topic	Timing	Date	Topic	Timing
Thursday, October 23, 2025	Fundamentals of machine, Basics of transformer	2:00PM 3:30PM	Recorded	Introduction to Electrical & Electronics Engineering Measurements	6:15PM - 7:15PM
Friday, October 24, 2025	Shell type and core type	2:00PM 3:30PM	Recorded	Method of Measurement and Static Characteristics of Instruments	6:15PM - 7:15PM
Monday, October 27, 2025	Principle, ideal transformers, EMF equation	2:00PM 3:30PM	Recorded	Static Characteristics of Instruments	6:15PM - 7:15PM
Tuesday, October 28, 2025	Phasor diagram, Impedance transformer, rating of transformer	2:00PM 3:30PM	Recorded	Dynamic Characteristics of Instruments	6:15PM - 7:15PM
Wednesday, October 29, 2025	Equivalent circuit	2:00PM 3:30PM	Recorded	Error Analysis Part-1	6:15PM - 7:15PM
Thursday, October 30, 2025	OC test and SC test and Sumpner Test	2:00PM 3:30PM	Recorded	Error Analysis Part-2	6:15PM - 7:15PM
Friday, October 31, 2025	Voltage regulation	2:00PM 3:30PM	Recorded	Error Analysis Part-3	6:15PM - 7:15PM
Monday, November 3, 2025	Losses in transformer	2:00PM 3:30PM	Recorded	Types of Dampings and torques Part-1	6:15PM - 7:15PM
Tuesday, November 4, 2025	Efficiency of a Transformer	2:00PM 3:30PM	Recorded	Types of Dampings and torques Part-2	6:15PM - 7:15PM
Wednesday, November 5, 2025	Parallel Operation of Single Phase Transformer	2:00PM 3:30PM	Recorded	PMMC Part-1	6:15PM - 7:15PM
Thursday, November 6, 2025	Auto transformer	2:00PM 3:30PM	Recorded	PMMC Part-2	6:15PM - 7:15PM
Friday, November 7, 2025	3 phase transformer-1	2:00PM 3:30PM	Recorded	Rectifier type instruments	6:15PM - 7:15PM
Monday, November 10, 2025	3 phase transformer-2	2:00PM 3:30PM	Recorded	Ratio Meter & Megger	6:15PM - 7:15PM
Tuesday, November 11, 2025	DC generator introduction	2:00PM 3:30PM	Recorded	Moving iron type instruments -1	6:15PM - 7:15PM
Wednesday, November 12, 2025	Construction of DC machine	2:00PM 3:30PM	Recorded	Moving iron type instruments -2	6:15PM - 7:15PM
Thursday, November 13, 2025	Classification of windings and its analysis	2:00PM 3:30PM	Recorded	Power factor meter, flux meter, Frequency meter	6:15PM - 7:15PM
Friday, November 14, 2025	EMF equation & Classification of generators	2:00PM 3:30PM	Recorded	Measurement of Power-1	6:15PM - 7:15PM
Monday, November 17, 2025	Armature Reaction	2:00PM 3:30PM	Tuesday, October 7, 2025	Measurement of Power-2	6:15PM - 7:15PM
Tuesday, November 18, 2025	Commutation & interpolar winding	2:00PM 3:30PM	Wednesday, October 8, 2025	Energy meter -1	6:15PM - 7:15PM
Wednesday, November 19, 2025	DC Generator Characteristics	2:00PM 3:30PM	Thursday, October 9, 2025	Energy meter -2	6:15PM - 7:15PM
Thursday, November 20, 2025	Voltage buildup condition and Critical Condition	2:00PM 3:30PM	Friday, October 10, 2025	Instrument transformers Part-1	6:15PM - 7:15PM
Friday, November 21, 2025	Voltage Regulation and Parallel Operation of DC Generator	2:00PM 3:30PM	Monday, October 13, 2025	Instrument transformers Part-2	6:15PM - 7:15PM
Monday, November 24, 2025	DC motor introduction	2:00PM 3:30PM	Tuesday, October 14, 2025	CRO - 1	6:15PM - 7:15PM

Tuesday, November 25, 2025	Classification of DC motor	2:00PM 3:30PM	Wednesday, October 15, 2025	CRO - 2	6:15PM - 7:15PM
Wednesday, November 26, 2025	Significance of back emf and torque analysis	2:00PM 3:30PM	Thursday, October 16, 2025	AC bridges=1	6:15PM - 7:15PM
Thursday, November 27, 2025	DC Motor Characterstic	2:00PM 3:30PM	Friday, October 17, 2025	AC bridges=2	6:15PM - 7:15PM
Friday, November 28, 2025	DC Motor Losses and Efficiency	2:00PM 3:30PM	Thursday, October 23, 2025	Transducers Part-1	6:15PM - 7:15PM
Monday, December 1, 2025	Speed control of motor	2:00PM 3:30PM	Friday, October 24, 2025	Transducers Part-2	6:15PM - 7:15PM
Tuesday, December 2, 2025	DC Motor Starter	2:00PM 3:30PM	Ashish Sir : Power Systems		
Wednesday, December 3, 2025	Breaking and testing	2:00PM 3:30PM			
Thursday, December 4, 2025	3 phase IM introduction and construction	2:00PM 3:30PM			
Friday, December 5, 2025	Slip and rotor circuit parameters	2:00PM 3:30PM			
Monday, December 8, 2025	Torque Slip characteristics	2:00PM 3:30PM	Monday, January 5, 2026	Introduction to Power Systems	5:00PM - 6:00PM
Tuesday, December 9, 2025	Starting methods	2:00PM 3:30PM	Tuesday, January 6, 2026	Generation (Thermal Power plant, Hydro Power Plant)	5:00PM - 6:00PM
Wednesday, December 10, 2025	Speed control of Induction Motor	2:00PM 3:30PM	Wednesday, January 7, 2026	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	5:00PM - 6:00PM
Thursday, December 11, 2025	Testing of Indction motor	2:00PM 3:30PM	Thursday, January 8, 2026	Economic Load factors (Load factor, capacity factor etc.)	5:00PM - 6:00PM
Ashish SIR : UEE			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
Date	Topic	Timing	Wednesday, January 14, 2026	Power factor improvement Part-1	5:00PM - 6:00PM
Monday, December 22, 2025	Type of Motor and Characterstics	5:00 PM - 6:00 PM	Thursday, January 15, 2026	Power factor improvement Part-2	5:00PM - 6:00PM
Tuesday, December 23, 2025	Type of loads	5:00 PM - 6:00 PM	Friday, January 16, 2026	Power factor improvement Part-3	5:00PM - 6:00PM
Wednesday, December 24, 2025	System of electric traction and track electrification	5:00 PM - 6:00 PM	Monday, January 19, 2026	Power factor improvement Part - 4	5:00PM - 6:00PM
Thursday, December 25, 2025	Speed-time curves for different services	5:00 PM - 6:00 PM	Tuesday, January 20, 2026	Question practice Session	5:00PM - 6:00PM
Friday, December 26, 2025	Calculation of various quantities of Electrical Traction	5:00 PM - 6:00 PM	Wednesday, January 21, 2026	Transmission line parameters Part-1	5:00PM - 6:00PM
Monday, December 29, 2025	Methods of Electrical Heating	5:00 PM - 6:00 PM	Thursday, January 22, 2026	Transmission line parameters Part-2	5:00PM - 6:00PM
Tuesday, December 30, 2025	Methods of Electrical Welding	5:00 PM - 6:00 PM	Friday, January 23, 2026	Transmission line parameters Part-3	5:00PM - 6:00PM
Wednesday, December 31, 2025	Introduction and terms used in Illumination	5:00 PM - 6:00 PM	Monday, January 26, 2026	Short circuit of fault analysis Part -1	5:00PM - 6:00PM
Thursday, January 1, 2026	Discharge Lamps, MV and SV Lamps	5:00 PM - 6:00 PM	Tuesday, January 27, 2026	Short circuit of fault analysis Part -2	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	Wednesday, January 28, 2026	Question practice Session	5:00PM - 6:00PM

END OF SUBJECT			Thursday, January 29, 2026	Short circuit of fault analysis Part -3	5:00PM - 6:00PM
Ashish Sir : Control system			Friday, January 30, 2026	Power system stability Part - 1	5:00PM - 6:00PM
			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
Date	Topic	Timing	Wednesday, February 4, 2026	Switchgear and protection Part-2	5:00PM - 6:00PM
Recorded	Basic of Control System	Recorded	Thursday, February 5, 2026	Switchgear and protection Part-3	5:00PM - 6:00PM
Recorded	Transfer Function Analysis of AC and DC servomotor	Recorded	Friday, February 6, 2026	Switchgear and protection Part-4	5:00PM - 6:00PM
Recorded	Control system Representation	Recorded	Monday, February 9, 2026	Switchgear and protection Part-5	5:00PM - 6:00PM
Recorded	Time Response Analysis Part-1	Recorded	Tuesday, February 10, 2026	Question practice Session	5:00PM - 6:00PM
Recorded	Time Response Analysis Part-2	Recorded	Wednesday, February 11, 2026	Cables, insulators Part -1	5:00PM - 6:00PM
Recorded	Routh Hurwitz Criterion, Root Locus	Recorded	Thursday, February 12, 2026	Cables, insulators Part -2	5:00PM - 6:00PM
Recorded	Bode Plotting using semi log graph paper	Recorded	Friday, February 13, 2026	Circuit Breakers Part -1	5:00PM - 6:00PM
Recorded	Compensator	Recorded	Monday, February 16, 2026	Circuit Breakers Part -2	5:00PM - 6:00PM
Recorded	Controller	Recorded	Tuesday, February 17, 2026	Question practice Session	5:00PM - 6:00PM