

STUDY PLAN

Ashish SIR : Electrical Machine				Measurement and instrumentation		
Date	Topic	Timing		Date	Topic	Timing
Thursday, September 25, 2025	Fundamentals of machine, Basics of transformer	2:00PM 3:30PM		Monday, October 20, 2025	Methods of measurements, type of instruments	2:00PM 3:30PM
Friday, September 26, 2025	Shell type and core type	2:00PM 3:30PM		Tuesday, October 21, 2025	Basic Characteristics of an Instrument & Error Analysis	2:00PM 3:30PM
Monday, September 29, 2025	Principle, ideal transformers, EMF equation	2:00PM 3:30PM		Wednesday, October 22, 2025	Types of Deflection, Damping and Controlling Torque	2:00PM 3:30PM
Tuesday, September 30, 2025	Phasor diagram, Impedance transformer, rating of transformer	2:00PM 3:30PM		Thursday, October 23, 2025	classification of analog instruments, mcq	2:00PM 3:30PM
Wednesday, October 1, 2025	Equivalent circuit	2:00PM 3:30PM		Friday, October 24, 2025	Basic Galvanometer, PMMC & MI instruments	2:00PM 3:30PM
Thursday, October 2, 2025	OC test and SC test and Sumpner Test	2:00PM 3:30PM		Monday, October 27, 2025	Electrodynamometer instruments	2:00PM 3:30PM
Friday, October 3, 2025	Voltage regulation	2:00PM 3:30PM		Tuesday, October 28, 2025	Thermal instruments electrostatic instruments rectifier type	2:00PM 3:30PM
Monday, October 6, 2025	Losses in transformer	2:00PM 3:30PM		Wednesday, October 29, 2025	Requirement of Range Extension and Basic DC Ammeter & Voltmeter	2:00PM 3:30PM
Tuesday, October 7, 2025	Efficiency of a Transformer	2:00PM 3:30PM		Thursday, October 30, 2025	Loading Effect Due to Voltmeter Resistance	2:00PM 3:30PM
Wednesday, October 8, 2025	Parallel Operation of Single Phase Transformer	2:00PM 3:30PM		Friday, October 31, 2025	Property , materials, measurements of low resistance	2:00PM 3:30PM
Thursday, October 9, 2025	Auto transformer	2:00PM 3:30PM		Monday, November 3, 2025	Measurements of medium resistance	2:00PM 3:30PM
Friday, October 10, 2025	3 phase transformer-1	2:00PM 3:30PM		Tuesday, November 4, 2025	Measurements of high resistance	2:00PM 3:30PM
Monday, October 13, 2025	3 phase transformer-2	2:00PM 3:30PM		Wednesday, November 5, 2025	Measurements of inductance-1	2:00PM 3:30PM
Tuesday, October 14, 2025	DC generator introduction	2:00PM 3:30PM		Thursday, November 6, 2025	Measurements of inductance-2	2:00PM 3:30PM
Wednesday, October 15, 2025	Construction of DC machine	2:00PM 3:30PM		Friday, November 7, 2025	Capacitance and special bridges	2:00PM 3:30PM
Thursday, October 16, 2025	Classification of windings and its analysis	2:00PM 3:30PM		Monday, November 10, 2025	DC and AC power, introduction to wattmeter	2:00PM 3:30PM
Friday, October 17, 2025	EMF equation & Classification of generators	2:00PM 3:30PM		Tuesday, November 11, 2025	Blondel theorem , two WM method, Single WM method	2:00PM 3:30PM
Monday, October 20, 2025	Armature Reaction	2:00PM 3:30PM		Wednesday, November 12, 2025	Errors in Wattmeter	2:00PM 3:30PM
Tuesday, October 21, 2025	Commutation & interpolar winding	2:00PM 3:30PM		Thursday, November 13, 2025	Induction Type Energy Meter	2:00PM 3:30PM
Wednesday, October 22, 2025	DC Generator Characteristics	2:00PM 3:30PM		Friday, November 14, 2025	Measurement of Frequency	2:00PM 3:30PM
Thursday, October 23, 2025	Voltage buildup condition and Critical Condition	2:00PM 3:30PM		Monday, November 17, 2025	Measurement of Power Factor	2:00PM 3:30PM
Friday, October 24, 2025	Voltage Regulation and Parallel Operation of DC Generator	2:00PM 3:30PM		Tuesday, November 18, 2025	Basics and construction of CRO	2:00PM 3:30PM
Monday, October 27, 2025	DC motor introduction	2:00PM 3:30PM		Wednesday, November 19, 2025	Measurement of phase and frequency	2:00PM 3:30PM

Tuesday, October 28, 2025	Classification of DC motor	2:00PM 3:30PM	Thursday, November 20, 2025	Operation modes of CRO and Special CRO	2:00PM 3:30PM
Wednesday, October 29, 2025	Significance of back emf and torque analysis	2:00PM 3:30PM	Friday, November 21, 2025	AC Potentiometers	2:00PM 3:30PM
Thursday, October 30, 2025	DC Motor Characteristic	2:00PM 3:30PM	Monday, November 24, 2025	Basic Potentiometer Circuit & Crompton's Potentiometer Circuit	2:00PM 3:30PM
Friday, October 31, 2025	DC Motor Losses and Efficiency	2:00PM 3:30PM	Tuesday, November 25, 2025	Strain gauges, LVDT, RTD, thermistor and pyrometer	2:00PM 3:30PM
Monday, November 3, 2025	Speed control of motor	2:00PM 3:30PM	Wednesday, November 26, 2025	Construction, principle, application of Q-meter	2:00PM 3:30PM
Tuesday, November 4, 2025	DC Motor Starter	2:00PM 3:30PM	Thursday, November 27, 2025	CT & PT and Burden of Instrument Transformer	2:00PM 3:30PM
Wednesday, November 5, 2025	Breaking and testing	2:00PM 3:30PM	Friday, November 28, 2025	basic of DVM and its Extension, Type of DVM	2:00PM 3:30PM
Thursday, November 6, 2025	3 phase IM introduction and construction	2:00PM 3:30PM	Monday, December 1, 2025	basic of Electronic AC Voltmeter and its principle operation	2:00PM 3:30PM
Friday, November 7, 2025	Slip and rotor circuit parameters	2:00PM 3:30PM	Tuesday, December 2, 2025	Type of Electronic AC Voltmeters	2:00PM 3:30PM
Monday, November 10, 2025	Torque Slip characteristics	2:00PM 3:30PM	Wednesday, December 3, 2025	Live doubt and miscellaneous-1	2:00PM 3:30PM
Tuesday, November 11, 2025	Starting methods	2:00PM 3:30PM	Thursday, December 4, 2025	Live doubt and miscellaneous-2	2:00PM 3:30PM
Wednesday, November 12, 2025	Speed control of Induction Motor	2:00PM 3:30PM	Friday, December 5, 2025	Live doubt and miscellaneous-3	2:00PM 3:30PM
Thursday, November 13, 2025	Testing of Induction motor	2:00PM 3:30PM	Basic Electronics		
Ashish SIR : Control system			Date	Topic	Timing
			Tuesday, October 21, 2025	Orientation	5:00PM - 6:00PM
			Wednesday, October 22, 2025	Introduction to Number systems	5:00PM - 6:00PM
Date	Topic	Timing	Thursday, October 23, 2025	Addition in different base	5:00PM - 6:00PM
Thursday, October 9, 2025	Basic of Control System	5:00 PM - 6:00 PM	Friday, October 24, 2025	Subtraction in Different Base	5:00PM - 6:00PM
Friday, October 10, 2025	Transfer Function Analysis of AC and DC servomotor	5:00 PM - 6:00 PM	Monday, October 27, 2025	Complements	5:00PM - 6:00PM
Monday, October 13, 2025	Control system Representation	5:00 PM - 6:00 PM	Tuesday, October 28, 2025	Interconversions part-1	5:00PM - 6:00PM
Tuesday, October 14, 2025	Time Response Analysis Part-1	5:00 PM - 6:00 PM	Wednesday, October 29, 2025	Interconversions part-2	5:00PM - 6:00PM
Wednesday, October 15, 2025	Time Response Analysis Part-2	5:00 PM - 6:00 PM	Thursday, October 30, 2025	Binary Codes, BCD	5:00PM - 6:00PM
Thursday, October 16, 2025	Routh Hurwitz Criterion, Root Locus	5:00 PM - 6:00 PM	Friday, October 31, 2025	Excess-3 and Gray Codes	5:00PM - 6:00PM
Friday, October 17, 2025	Bode Plotting using semi log graph paper	5:00 PM - 6:00 PM	Monday, November 3, 2025	Practice Questions	5:00PM - 6:00PM
Monday, October 20, 2025	Compensator	5:00 PM - 6:00 PM	Tuesday, November 4, 2025	Axioms and Operations	5:00PM - 6:00PM
Tuesday, October 21, 2025	Controller	5:00 PM - 6:00 PM	Wednesday, November 5, 2025	Laws of Boolean Algebra	5:00PM - 6:00PM
Ashish SIR : Estimation & Coasting			Thursday, November 6, 2025	SOP and POS representation part-1	5:00PM - 6:00PM

				Friday, November 7, 2025	SOP and POS representation part-2	5:00PM - 6:00PM
				Monday, November 10, 2025	Basic Gates	5:00PM - 6:00PM
Date	Topic	Timing		Tuesday, November 11, 2025	Special Gates	5:00PM - 6:00PM
Wednesday, October 22, 2025	Class -1	5:00 PM - 6:00 PM		Wednesday, November 12, 2025	Universal Gates	5:00PM - 6:00PM
Thursday, October 23, 2025	Class -2	5:00 PM - 6:00 PM		Thursday, November 13, 2025	Circuits of Gates	5:00PM - 6:00PM
Friday, October 24, 2025	Class -3	5:00 PM - 6:00 PM		Friday, November 14, 2025	Adders	5:00PM - 6:00PM
Monday, October 27, 2025	Class -4	5:00 PM - 6:00 PM		Monday, November 17, 2025	Subtractors	5:00PM - 6:00PM
Tuesday, October 28, 2025	Class -5	5:00 PM - 6:00 PM		Tuesday, November 18, 2025	Multiplexers part-1	5:00PM - 6:00PM
Ashish SIR : UEE				Wednesday, November 19, 2025	Multiplexers part-2	5:00PM - 6:00PM
				Thursday, November 20, 2025	Demultiplexers and Decoders	5:00PM - 6:00PM
				Friday, November 21, 2025	Practice Questions	5:00PM - 6:00PM
Date	Topic	Timing		Monday, November 24, 2025	Introduction to flip flops	5:00PM - 6:00PM
Wednesday, October 29, 2025	Type of Motor and Characteristics	5:00 PM - 6:00 PM		Tuesday, November 25, 2025	Different types of Flip flops	5:00PM - 6:00PM
Thursday, October 30, 2025	Type of loads	5:00 PM - 6:00 PM		Wednesday, November 26, 2025	Counters Basics	5:00PM - 6:00PM
Friday, October 31, 2025	System of electric traction and track electrification	5:00 PM - 6:00 PM		Thursday, November 27, 2025	Counters Basics	5:00PM - 6:00PM
Monday, November 3, 2025	Speed-time curves for different services	5:00 PM - 6:00 PM		Friday, November 28, 2025	Practice Questions	5:00PM - 6:00PM
Tuesday, November 4, 2025	Calculation of various quantities of Electrical Traction	5:00 PM - 6:00 PM		Monday, December 1, 2025	A/D Convertors	5:00PM - 6:00PM
Wednesday, November 5, 2025	Methods of Electrical Heating	5:00 PM - 6:00 PM		Tuesday, December 2, 2025	D/A Convertors	5:00PM - 6:00PM
Thursday, November 6, 2025	Methods of Electrical Welding	5:00 PM - 6:00 PM		Wednesday, December 3, 2025	Practice Questions	5:00PM - 6:00PM
Friday, November 7, 2025	Introduction and terms used in Illumination	5:00 PM - 6:00 PM		Thursday, December 4, 2025	Memories	5:00PM - 6:00PM
Monday, November 10, 2025	Discharge Lamps, MV and SV Lamps	5:00 PM - 6:00 PM		Power Electronics		
Tuesday, November 11, 2025	Basic Principle of Light Control , Types and design of lightning and flood lighting	5:00 PM - 6:00 PM		Date	Title	Time
END OF SUBJECT				Recorded	Power Electronics -1	Recorded
Electronics Devices				Recorded	Power Electronics -2	Recorded
				Recorded	Power Electronics -3	Recorded
				Recorded	Power Electronics -4	Recorded
				Recorded	Power Electronics -5	Recorded
Date	Topic	Timing		Recorded	Power Electronics -5	Recorded

Recorded	Energy Band Diagram	Recorded		Recorded	Power Electronics -6	Recorded
Recorded	Types of Semiconductor	Recorded		Recorded	Power Electronics -7	Recorded
Recorded	Resistivity and Conductivity of Semiconductor	Recorded		Recorded	Power Electronics -8	Recorded
Recorded	Hall Effect	Recorded		Recorded	Power Electronics -9	Recorded
Recorded	Practice Questions	Recorded		Recorded	Power Electronics -10	Recorded
Recorded	PN Junction Diodes	Recorded		Recorded	Power Electronics -11	Recorded
Recorded	Characteristics of PN Junction Diodes	Recorded		Recorded	Power Electronics -12	Recorded
Recorded	Transistion and Diffusion Capacitance	Recorded		Recorded	Power Electronics -13	Recorded
Recorded	Zener Diode	Recorded		Recorded	Power Electronics -14	Recorded
Recorded	Avalanche and Zener Breakdown	Recorded		Recorded	Power Electronics -15	Recorded
Recorded	Rectifiers-1	Recorded		Recorded	Power Electronics -16	Recorded
Recorded	Rectifiers-2	Recorded		Recorded	Power Electronics -17	Recorded
Recorded	Clippers	Recorded		Recorded	Power Electronics -18	Recorded
Recorded	Clampers	Recorded		Ashish Sir : Power Systems		
Recorded	Practice Questions	Recorded				
Recorded	Transistors and Its working	Recorded				
Recorded	Configuration and Characteristics of Transistors	Recorded		Date	Topic	Timing
Recorded	Current Components in BJT	Recorded		Monday, December 8, 2025	Introduction to Power Systems	5:00PM - 6:00PM
Recorded	Early Effect	Recorded		Tuesday, December 9, 2025	Generation (Thermal Power plant, Hydro Power Plant)	5:00PM - 6:00PM
Recorded	Mode of Operation	Recorded		Wednesday, December 10, 2025	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	5:00PM - 6:00PM
Recorded	Applications of Transistor	Recorded		Thursday, December 11, 2025	Economic Load factors (Load factor, capacity factor etc.)	5:00PM - 6:00PM
Recorded	BJT amplifiers - 1	Recorded		Friday, December 12, 2025	Per unit method Part-1	5:00PM - 6:00PM
Recorded	BJT amplifiers - 2	Recorded		Monday, December 15, 2025	Per unit method Part-2	5:00PM - 6:00PM
Recorded	Power amplifiers	Recorded		Tuesday, December 16, 2025	Question practice Session	5:00PM - 6:00PM
Recorded	Sinusoidal Oscillator & Phase shift Oscillator	Recorded		Wednesday, December 17, 2025	Power factor improvement Part-1	5:00PM - 6:00PM
Recorded	Wien Bridge Oscillator	Recorded		Thursday, December 18, 2025	Power factor improvement Part-2	5:00PM - 6:00PM
Recorded	Colpitts and Hartley Oscillators	Recorded		Friday, December 19, 2025	Power factor improvement Part-3	5:00PM - 6:00PM

Recorded	Multivibrator - 1	Recorded		Monday, December 22, 2025	Power factor improvement Part - 4	5:00PM - 6:00PM
Recorded	Multivibrator - 2	Recorded		Tuesday, December 23, 2025	Question practice Session	5:00PM - 6:00PM
Recorded	Practice Questions	Recorded		Wednesday, December 24, 2025	Transmission line parameters Part-1	5:00PM - 6:00PM
Recorded	Inverter and UPS	Recorded		Thursday, December 25, 2025	Transmission line parameters Part-2	5:00PM - 6:00PM
Recorded	Working of Triode	Recorded		Friday, December 26, 2025	Transmission line parameters Part-3	5:00PM - 6:00PM
Recorded	Triode Circuits	Recorded		Monday, December 29, 2025	Short circuit of fault analysis Part -1	5:00PM - 6:00PM
END OF SUBJECT				Tuesday, December 30, 2025	Short circuit of fault analysis Part -2	5:00PM - 6:00PM
				Wednesday, December 31, 2025	Question practice Session	5:00PM - 6:00PM
				Thursday, January 1, 2026	Short circuit of fault analysis Part -3	5:00PM - 6:00PM
				Friday, January 2, 2026	Power system stability Part - 1	5:00PM - 6:00PM
				Monday, January 5, 2026	Power system stability Part - 2	5:00PM - 6:00PM
				Tuesday, January 6, 2026	Switchgear and protection Part-1	5:00PM - 6:00PM
				Wednesday, January 7, 2026	Switchgear and protection Part-2	5:00PM - 6:00PM
				Thursday, January 8, 2026	Switchgear and protection Part-3	5:00PM - 6:00PM
				Friday, January 9, 2026	Switchgear and protection Part-4	5:00PM - 6:00PM
				Monday, January 12, 2026	Switchgear and protection Part-5	5:00PM - 6:00PM
				Tuesday, January 13, 2026	Question practice Session	5:00PM - 6:00PM
				Wednesday, January 14, 2026	Cables, insulators Part -1	5:00PM - 6:00PM
				Thursday, January 15, 2026	Cables, insulators Part -2	5:00PM - 6:00PM
				Friday, January 16, 2026	Circuit Breakers Part -1	5:00PM - 6:00PM
				Monday, January 19, 2026	Circuit Breakers Part -2	5:00PM - 6:00PM
				Tuesday, January 20, 2026	Question practice Session	5:00PM - 6:00PM