

## STUDY PLAN

Ashish SIR : Electrical Machine			Ashish Sir : Power Systems		
Date	Topic	Timing	Date	Topic	Timing
Friday, June 12, 2026	Basics of Transformers	5:30PM-7.00PM	Tuesday, June 23, 2026	Introduction to Power Systems	3:30PM - 4:30PM
Monday, June 15, 2026	Construction of transformers & Emf Equation of transformers,	5:30PM-7.00PM	Wednesday, June 24, 2026	Generation (Thermal Power plant, Hydro Power Plant)	3:30PM - 4:30PM
Tuesday, June 16, 2026	Equivalent circuit, O.C. & S.C. Tests	5:30PM-7.00PM	Thursday, June 25, 2026	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	3:30PM - 4:30PM
Wednesday, June 17, 2026	Voltage regulation of transformers, Losses and efficiency of transformers	5:30PM-7.00PM	Friday, June 26, 2026	Economic Load factors (Load factor, capacity factor etc.)	3:30PM - 4:30PM
Thursday, June 18, 2026	3 Phase transformers, Parallel operation of transformers	5:30PM-7.00PM	Monday, June 29, 2026	Per unit method Part-1	3:30PM - 4:30PM
Friday, June 19, 2026	Construction & Working of 3-Phase Induction Machines	5:30PM-7.00PM	Tuesday, June 30, 2026	Per unit method Part-2	3:30PM - 4:30PM
Monday, June 22, 2026	Working & Equivalent Circuit of 3-Phase Induction Machines	5:30PM-7.00PM	Wednesday, July 1, 2026	Question practice Session	3:30PM - 4:30PM
Tuesday, June 23, 2026	Torque Equation of 3-Phase induction Machines	5:30PM-7.00PM	Thursday, July 2, 2026	Power factor improvement Part-1	3:30PM - 4:30PM
Wednesday, June 24, 2026	Torque slip characteristics of 3-phase induction Motors	5:30PM-7.00PM	Friday, July 3, 2026	Power factor improvement Part-2	3:30PM - 4:30PM
Thursday, June 25, 2026	Starters & Braking methods of 3-Phase induction machines	5:30PM-7.00PM	Monday, July 6, 2026	Power factor improvement Part-3	3:30PM - 4:30PM
Friday, June 26, 2026	Speed control of 3-Phase induction motors	5:30PM-7.00PM	Tuesday, July 7, 2026	Power factor improvement Part - 4	3:30PM - 4:30PM
Monday, June 29, 2026	Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors	5:30PM-7.00PM	Wednesday, July 8, 2026	Question practice Session	3:30PM - 4:30PM
Tuesday, June 30, 2026	Construction and working of 1-Phase induction motors	5:30PM-7.00PM	Thursday, July 9, 2026	Transmission line parameters Part-1	3:30PM - 4:30PM
Wednesday, July 1, 2026	Split phase Induction Motors, Capacitor start, Capacitor start capacitor run, Shaded pole Induction Motors	5:30PM-7.00PM	Friday, July 10, 2026	Transmission line parameters Part-2	3:30PM - 4:30PM
Thursday, July 2, 2026	Hysteresis, Switched Reluctance motors, stepper motors	5:30PM-7.00PM	Monday, July 13, 2026	Transmission line parameters Part-3	3:30PM - 4:30PM
Friday, July 3, 2026	Construction & Working of 3-phase Synchronous Machines	5:30PM-7.00PM	Tuesday, July 14, 2026	Short circuit of fault analysis Part -1	3:30PM - 4:30PM
Monday, July 6, 2026	Armature reaction of 3-Phase synchronous generators at unity, Lagging pf & Leading pf	5:30PM-7.00PM	Wednesday, July 15, 2026	Short circuit of fault analysis Part -2	3:30PM - 4:30PM
Tuesday, July 7, 2026	Voltage Regulation of 3-Phase Synchronous generators	5:30PM-7.00PM	Thursday, July 16, 2026	Question practice Session	3:30PM - 4:30PM
Wednesday, July 8, 2026	Power flow, Synchronous condenser & important curves in synchronous machines in Synchronous Machines	5:30PM-7.00PM	Friday, July 17, 2026	Short circuit of fault analysis Part -3	3:30PM - 4:30PM

Thursday, July 9, 2026	Parallel Operation of Synchronous Machines	5:30PM-7.00PM	Monday, July 20, 2026	Power system stability Part - 1	3:30PM - 4:30PM
Friday, July 10, 2026	Working of 3-Phase synchronous motors	5:30PM-7.00PM	Tuesday, July 21, 2026	Power system stability Part - 2	3:30PM - 4:30PM
Monday, July 13, 2026	Starting methods of synchronous motors, Synchronizing coefficient	5:30PM-7.00PM	Wednesday, July 22, 2026	Switchgear and protection Part-1	3:30PM - 4:30PM
Tuesday, July 14, 2026	Testings in Synchronous Machines	5:30PM-7.00PM	Thursday, July 23, 2026	Switchgear and protection Part-2	3:30PM - 4:30PM
	Introduction to Electrical Machines	Recording-1	Friday, July 24, 2026	Switchgear and protection Part-3	3:30PM - 4:30PM
	Basic Concepts of Magnetic Materials	Recording-2	Monday, July 27, 2026	Switchgear and protection Part-4	3:30PM - 4:30PM
	Basic concepts of Rotating Machines	Recording-3	Tuesday, July 28, 2026	Switchgear and protection Part-5	3:30PM - 4:30PM
	Working of DC Generators	Recording-4	Wednesday, July 29, 2026	Question practice Session	3:30PM - 4:30PM
	Construction of DC Machines	Recording-5	Thursday, July 30, 2026	Cables, insulators Part -1	3:30PM - 4:30PM
	Commutator & Types of Windings	Recording-6	Friday, July 31, 2026	Cables, insulators Part -2	3:30PM - 4:30PM
	Emf Equation of DC Generators	Recording-7	Monday, August 3, 2026	Circuit Breakers Part -1	3:30PM - 4:30PM
	Type of DC Generators	Recording-8	Tuesday, August 4, 2026	Circuit Breakers Part -2	3:30PM - 4:30PM
	Questions on DC Generators	Recording-9	Wednesday, August 5, 2026	Question practice Session	3:30PM - 4:30PM
	Armature reaction of DC Generators-1	Recording-10	<b>Ashish SIR : Electronic Devices</b>		
	Armature reaction of DC Generators-2	Recording-11			
	Commutation in DC Machines	Recording-12			
	Methods of improving commutations	Recording-13	<b>Date</b>	<b>Topic</b>	<b>Timing</b>
	Characteristics of DC Generators	Recording-14	Thursday, August 6, 2026	Electronic Devices - 1	3:30PM - 4:30PM
	Basic Principle of Motor	Recording-15	Friday, August 7, 2026	Electronic Devices - 2	3:30PM - 4:30PM
	Torque Equation of DC Motors	Recording-16	Monday, August 10, 2026	Electronic Devices - 3	3:30PM - 4:30PM
	Speed control of DC Motors	Recording-17	Tuesday, August 11, 2026	Electronic Devices - 4	3:30PM - 4:30PM
	Starting and Braking methods of DC Motors	Recording-18	Wednesday, August 12, 2026	Electronic Devices - 5	3:30PM - 4:30PM
	Efficiency and testing methods of DC Motors	Recording-19	Thursday, August 13, 2026	Electronic Devices - 6	3:30PM - 4:30PM

Ashish Sir : Measurement and instrumentation			Friday, August 14, 2026	Electronic Devices - 7	3:30PM - 4:30PM
Date	Topic	Timing	Monday, August 17, 2026	Electronic Devices - 8	3:30PM - 4:30PM
Wednesday, July 15, 2026	Introduction to Electrical & Electronics Engineering Measurements	5:30PM-7.00PM	Tuesday, August 18, 2026	Electronic Devices - 9	3:30PM - 4:30PM
Thursday, July 16, 2026	Error Analysis Part-1	5:30PM-7.00PM	Wednesday, August 19, 2026	Electronic Devices - 10	3:30PM - 4:30PM
Friday, July 17, 2026	Error Analysis Part-2	5:30PM-7.00PM	<b>Ashish SIR : UEE</b>		
Monday, July 20, 2026	Types of Dampings and torques	5:30PM-7.00PM			
Tuesday, July 21, 2026	PMMC	5:30PM-7.00PM			
Wednesday, July 22, 2026	Rectifier type instruments	5:30PM-7.00PM			
Thursday, July 23, 2026	Moving iron type instruments -1	5:30PM-7.00PM	Date	Topic	Timing
Friday, July 24, 2026	Moving iron type instruments -2	5:30PM-7.00PM	Wednesday, August 19, 2026	Type of Motor and Characteristics	3:30PM - 4:30PM
Monday, July 27, 2026		5:30PM-7.00PM	Thursday, August 20, 2026	Type of loads	3:30PM - 4:30PM
Tuesday, July 28, 2026	Power factor meter, flux meter, Frequency meter	5:30PM-7.00PM	Friday, August 21, 2026	System of electric traction and track electrification	3:30PM - 4:30PM
Wednesday, July 29, 2026	Measurement of Power-1	5:30PM-7.00PM	Monday, August 24, 2026	Speed-time curves for different services	3:30PM - 4:30PM
Thursday, July 30, 2026	Measurement of Power-2	5:30PM-7.00PM	Tuesday, August 25, 2026	Calculation of various quantities of Electrical Traction	3:30PM - 4:30PM
Friday, July 31, 2026	Energy meter -1	5:30PM-7.00PM	Wednesday, August 26, 2026	Methods of Electrical Heating	3:30PM - 4:30PM
Monday, August 3, 2026	Energy meter -2	5:30PM-7.00PM	Thursday, August 27, 2026	Methods of Electrical Welding	3:30PM - 4:30PM
Tuesday, August 4, 2026	Instrument transformers Part-1	5:30PM-7.00PM	Friday, August 28, 2026	Introduction and terms used in Illumination	3:30PM - 4:30PM
Wednesday, August 5, 2026	Instrument transformers Part-2	5:30PM-7.00PM	Monday, August 31, 2026	Discharge Lamps, MV and SV Lamps	3:30PM - 4:30PM
Thursday, August 6, 2026	CRO - 1	5:30PM-7.00PM	Tuesday, September 1, 2026	Basic Principle of Light Control , Types and design of lightning and flood lighting	3:30PM - 4:30PM
Friday, August 7, 2026	CRO - 2	5:30PM-7.00PM	<b>Ashish SIR : Estimation &amp; Costing</b>		
Monday, August 10, 2026	AC bridges 1	5:30PM-7.00PM			
Tuesday, August 11, 2026	AC bridges 2	5:30PM-7.00PM			
Ashish SIR: Basic Electronics			Date	Topic	Timing
			Wednesday, September 2, 2026	Estimation & Costing - 1	3:30PM - 4:30PM

Date	Topic	Timing			
			Thursday, September 3, 2026	Estimation & Costing - 2	3:30PM - 4:30PM
Recordings will be added by 12th June	Introduction to Basic Electronics	Recording-1	Friday, September 4, 2026	Estimation & Costing - 3	3:30PM - 4:30PM
	Basics of Semiconductor Materials Part-1	Recording-2	Monday, September 7, 2026	Estimation & Costing - 4	3:30PM - 4:30PM
	Basics of Semiconductor Materials Part-2	Recording-3	Tuesday, September 8, 2026	Estimation & Costing - 5	3:30PM - 4:30PM
	Semiconductor Physics Part-1	Recording-4	Wednesday, September 9, 2026	Estimation & Costing - 6	3:30PM - 4:30PM
	Semiconductor Physics Part-2	Recording-5	Thursday, September 10, 2026	Estimation & Costing - 7	3:30PM - 4:30PM
	PN Junction Diode Part-1	Recording-6	Friday, September 11, 2026	Estimation & Costing - 8	3:30PM - 4:30PM
	PN Junction Diode Part-2	Recording-7	Monday, September 14, 2026	Estimation & Costing - 9	3:30PM - 4:30PM
	Zener Diode Part -1	Recording-8	Tuesday, September 15, 2026	Estimation & Costing - 10	3:30PM - 4:30PM
	Zener Diode Part -2	Recording-9	<b>Ashish Sir - Network Theory</b>		
	Tunnel diode, LED	Recording-10	<b>Date</b>	<b>Topic</b>	<b>Timing</b>
	PhotoDiode, Shottcky Diode	Recording-11	Recordings will be added by 12th June	Parallel Resonance	Recording-1
	BJT Part-1	Recording-12		Performance Parameters of Series and Parallel Resonance	Recording-2
	BJT Part-2	Recording-13		Average & RMS values of difference waveforms	Recording-3
	BJT Part-3	Recording-14		Two Port Networks & Graph Theory	Recording-4
	BJT Part-4	Recording-15		Graph Theory and Questions	Recording-5
	BJT Part-5	Recording-16		Poly phase Network	Recording-6
	BJT Part-6	Recording-17		Poly phase Network	Recording-7
	BJT Part-7	Recording-18		Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor	Recording-8
	FeedBack Amplifier	Recording-19		Electric Potential	Recording-9
	Power amplifier	Recording-20		Ohms law, Concept of Resistance	Recording-10
	FET introduction and working	Recording-21		Types Of Circuit Elements	Recording-11
	MCQs on FET	Recording-22		Concept of Inductor	Recording-12

MOSFET introduction and working	Recording-23		Concept of Capacitance & Laplace transforms	Recording-13
Op-amp Part-1	Recording-24		Some Functions & Their Laplace Transforms	Recording-14
Op-amp Part-2	Recording-25		Resistance in Series and Parallel & Star Delta conversion	Recording-15
Op-amp Part-3	Recording-26		Capacitance in Series and Parallel	Recording-16
Number system Part-1	Recording-27		KVL and KCL	Recording-17
Number system Part-2	Recording-28		Question Practice Session	Recording-18
Boolean algebra	Recording-29		Questions Practice Session	Recording-19
Logic Gates	Recording-30		Network Theorem	Recording-20
Basics of Power Electronics Part-1	Recording-31		(Superposition Theorem)	Recording-21
Basics of Power Electronics Part-2	Recording-32		Thevenin's, Nortons Theorem	Recording-22
SCR Part-1	Recording-33		Maximum Power Transfer Theorem	Recording-23
SCR Part-2	Recording-34		Tellegen's, Milliman's & Reciprocity Theorem	Recording-24
Types of Switches and their working Part-1	Recording-35		AC Fundamentals	Recording-25
Types of Switches and their working Part-2	Recording-36		Series Resonance	Recording-26
Types of Switches and their working Part-3	Recording-37			
Miscellaneous	Recording-38			