

## STUDY PLAN

Ashish SIR : Electrical Machine			Ashish Sir - Network Theory		
Date	Topic	Timing	Date	Topic	Timing
Thursday, May 14, 2026	Introduction to Electrical Machines	4:00AM - 5:30PM	Thursday, May 14, 2026	Parallel Resonance	8:00AM - 9:00AM
Friday, May 15, 2026	Basic Concepts of Magnetic Materials	4:00AM - 5:30PM	Friday, May 15, 2026	Performance Parameters of Series and Parallel Resonance	8:00AM - 9:00AM
Monday, May 18, 2026	Basic concepts of Rotating Machines	4:00AM - 5:30PM	Monday, May 18, 2026	Average & RMS values of difference waveforms	8:00AM - 9:00AM
Tuesday, May 19, 2026	Working of DC Generators	4:00AM - 5:30PM	Tuesday, May 19, 2026	Two Port Networks & Graph Theory	8:00AM - 9:00AM
Wednesday, May 20, 2026	Construction of DC Machines	4:00AM - 5:30PM	Wednesday, May 20, 2026	Graph Theory and Questions	8:00AM - 9:00AM
Thursday, May 21, 2026	Commutator & Types of Windings	4:00AM - 5:30PM	Thursday, May 21, 2026	Poly phase Network	8:00AM - 9:00AM
Friday, May 22, 2026	Emf Equation of DC Generators	4:00AM - 5:30PM	Friday, May 22, 2026	Poly phase Network	8:00AM - 9:00AM
Monday, May 25, 2026	Type of DC Generators	4:00AM - 5:30PM	Monday, May 25, 2026	Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor	8:00AM - 9:00AM
Tuesday, May 26, 2026	Questions on DC Generators	4:00AM - 5:30PM	Tuesday, May 26, 2026	Electric Potential	8:00AM - 9:00AM
Wednesday, May 27, 2026	Armature reaction of DC Generators-1	4:00AM - 5:30PM	Wednesday, May 27, 2026	Ohms law, Concept of Resistance	8:00AM - 9:00AM
Thursday, May 28, 2026	Armature reaction of DC Generators-2	4:00AM - 5:30PM	Thursday, May 28, 2026	Types Of Circuit Elements	8:00AM - 9:00AM
Friday, May 29, 2026	Commutation in DC Machines	4:00AM - 5:30PM	Friday, May 29, 2026	Concept of Inductor	8:00AM - 9:00AM
Monday, June 1, 2026	Methods of improving commutations	4:00AM - 5:30PM	Monday, June 1, 2026	Concept of Capacitance & Laplace transforms	8:00AM - 9:00AM
Tuesday, June 2, 2026	Characteristics of DC Generators	4:00AM - 5:30PM	Tuesday, June 2, 2026	Some Functions & Their Laplace Transforms	8:00AM - 9:00AM
Wednesday, June 3, 2026	Basic Principle of Motor	4:00AM - 5:30PM	Wednesday, June 3, 2026	Resistance in Series and Parallel & Star Delta conversion	8:00AM - 9:00AM
Thursday, June 4, 2026	Torque Equation of DC Motors	4:00AM - 5:30PM	Thursday, June 4, 2026	Capacitance in Series and Parallel	8:00AM - 9:00AM
Friday, June 5, 2026	Speed control of DC Motors	4:00AM - 5:30PM	Friday, June 5, 2026	KVL and KCL	8:00AM - 9:00AM
Monday, June 8, 2026	Starting and Braking methods of DC Motors	4:00AM - 5:30PM	Monday, June 8, 2026	Question Practice Session	8:00AM - 9:00AM
Tuesday, June 9, 2026	Efficiency and testing methods of DC Motors	4:00AM - 5:30PM	Tuesday, June 9, 2026	Questions Practice Session	8:00AM - 9:00AM

Wednesday, June 10, 2026	Basics of Transformers	4:00AM - 5:30PM	Wednesday, June 10, 2026	Network Theorem	8:00AM - 9:00AM
Thursday, June 11, 2026	Construction of transformers & Emf Equation of transformers,	4:00AM - 5:30PM	Thursday, June 11, 2026	(Superposition Theorem)	8:00AM - 9:00AM
Friday, June 12, 2026	Equivalent circuit, O.C.& S.C. Tests	4:00AM - 5:30PM	Friday, June 12, 2026	Thevenin's, Nortons Theorem	8:00AM - 9:00AM
Monday, June 15, 2026	Voltage regulation of transformers, Losses and efficiency of transformers	4:00AM - 5:30PM	Monday, June 15, 2026	Maximum Power Transfer Theorem	8:00AM - 9:00AM
Tuesday, June 16, 2026	3 Phase transformers, Parallel operation of transformers	4:00AM - 5:30PM	Tuesday, June 16, 2026	Tellegen's, Milliman's & Reciprocity Theorem	8:00AM - 9:00AM
Wednesday, June 17, 2026	Construction & Working of 3-Phase Induction Machines	4:00AM - 5:30PM	Wednesday, June 17, 2026	AC Fundamentals	8:00AM - 9:00AM
Thursday, June 18, 2026	Working & Equivalent Circuit of 3-Phase Induction Machines	4:00AM - 5:30PM	Thursday, June 18, 2026	Series Resonance	8:00AM - 9:00AM
Friday, June 19, 2026	Torque Equation of 3-Phase induction Machines	4:00AM - 5:30PM	<b>Ashish SIR : Electronic Devices</b>		
Monday, June 22, 2026	Torque slip characteristics of 3-phase induction Motors	4:00AM - 5:30PM			
Tuesday, June 23, 2026	Starters & Braking methods of 3-Phase induction machines	4:00AM - 5:30PM			
Wednesday, June 24, 2026	Speed control of 3-Phase induction motors	4:00AM - 5:30PM			
Thursday, June 25, 2026	Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors	4:00AM - 5:30PM	<b>Date</b>	<b>Topic</b>	<b>Timing</b>
Friday, June 26, 2026	Construction and working of 1-Phase induction motors	4:00AM - 5:30PM	Friday, June 19, 2026	Electronic Devices - 1	8:00AM - 9:00AM
Monday, June 29, 2026	Split phase Induction Motors, Capacitor start, Capacitor start capacitor run, Shaded pole Induction Motors	4:00AM - 5:30PM	Monday, June 22, 2026	Electronic Devices - 2	8:00AM - 9:00AM
Tuesday, June 30, 2026	Hysteresis, Switched Reluctance motors, stepper motors	4:00AM - 5:30PM	Tuesday, June 23, 2026	Electronic Devices - 3	8:00AM - 9:00AM
Wednesday, July 1, 2026	Construction & Working of 3-phase Synchronous Machines	4:00AM - 5:30PM	Wednesday, June 24, 2026	Electronic Devices - 4	8:00AM - 9:00AM
Thursday, July 2, 2026	Armature reaction of 3-Phase synchronous generators at unity, Lagging pf & Leading pf	4:00AM - 5:30PM	Thursday, June 25, 2026	Electronic Devices - 5	8:00AM - 9:00AM
Friday, July 3, 2026	Voltage Regulation of 3-Phase Synchronous generators	4:00AM - 5:30PM	Friday, June 26, 2026	Electronic Devices - 6	8:00AM - 9:00AM
Monday, July 6, 2026	Power flow, Synchronous condenser & important curves in synchronous machines in Synchronous Machines	4:00AM - 5:30PM	Monday, June 29, 2026	Electronic Devices - 7	8:00AM - 9:00AM
Tuesday, July 7, 2026	Parallel Operation of Synchronous Machines	4:00AM - 5:30PM	Tuesday, June 30, 2026	Electronic Devices - 8	8:00AM - 9:00AM
			Wednesday, July 1, 2026	Electronic Devices - 9	8:00AM - 9:00AM

Wednesday, July 8, 2026	Working of 3-Phase synchronous motors	4:00AM - 5:30PM	Thursday, July 2, 2026	Electronic Devices - 10	8:00AM - 9:00AM
Thursday, July 9, 2026	Starting methods of synchronous motors, Synchronizing coefficient	4:00AM - 5:30PM	<b>Ashish SIR : UEE</b>		
Friday, July 10, 2026	Testings in Synchronous Machines	4:00AM - 5:30PM			
<b>Ashish Sir : Power Systems</b>					
Date	Topic	Timing	Date	Topic	Timing
Monday, July 13, 2026	Introduction to Power Systems	3:30PM 5.00PM	Friday, July 3, 2026	Type of Motor and Characteristics	8:00AM - 9:00AM
Tuesday, July 14, 2026	Generation (Thermal Power plant, Hydro Power Plant)	3:30PM 5.00PM	Monday, July 6, 2026	Type of loads	8:00AM - 9:00AM
Wednesday, July 15, 2026	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	3:30PM 5.00PM	Tuesday, July 7, 2026	System of electric traction and track electrification	8:00AM - 9:00AM
Thursday, July 16, 2026	Economic Load factors (Load factor, capacity factor etc.)	3:30PM 5.00PM	Wednesday, July 8, 2026	Speed-time curves for different services	8:00AM - 9:00AM
Friday, July 17, 2026	Per unit method Part-1	3:30PM 5.00PM	Thursday, July 9, 2026	Calculation of various quantities of Electrical Traction	8:00AM - 9:00AM
Monday, July 20, 2026	Per unit method Part-2	3:30PM 5.00PM	Friday, July 10, 2026	Methods of Electrical Heating	8:00AM - 9:00AM
Tuesday, July 21, 2026	Question practice Session	3:30PM 5.00PM	Monday, July 13, 2026	Methods of Electrical Welding	8:00AM - 9:00AM
Wednesday, July 22, 2026	Power factor improvement Part-1	3:30PM 5.00PM	Tuesday, July 14, 2026	Introduction and terms used in Illumination	8:00AM - 9:00AM
Thursday, July 23, 2026	Power factor improvement Part-2	3:30PM 5.00PM	Wednesday, July 15, 2026	Discharge Lamps, MV and SV Lamps	8:00AM - 9:00AM
Friday, July 24, 2026	Power factor improvement Part-3	3:30PM 5.00PM	Thursday, July 16, 2026	Basic Principle of Light Control, Types and design of lightning and flood lighting	8:00AM - 9:00AM
Monday, July 27, 2026	Power factor improvement Part - 4	3:30PM 5.00PM	<b>Ashish SIR : Estimation &amp; Costing</b>		
Tuesday, July 28, 2026	Question practice Session	3:30PM 5.00PM			
Wednesday, July 29, 2026	Transmission line parameters Part-1	3:30PM 5.00PM			
Thursday, July 30, 2026	Transmission line parameters Part-2	3:30PM 5.00PM	Date	Topic	Timing
Friday, July 31, 2026	Transmission line parameters Part-3	3:30PM 5.00PM	Friday, July 17, 2026	Estimation & Costing - 1	8:00AM - 9:00AM
Monday, August 3, 2026	Short circuit of fault analysis Part -1	3:30PM 5.00PM	Monday, July 20, 2026	Estimation & Costing - 2	8:00AM - 9:00AM
Tuesday, August 4, 2026	Short circuit of fault analysis Part -2	3:30PM 5.00PM	Tuesday, July 21, 2026	Estimation & Costing - 3	8:00AM - 9:00AM

Wednesday, August 5, 2026	Question practice Session	3:30PM 5.00PM	Wednesday, July 22, 2026	Estimation & Costing - 4	8:00AM - 9:00AM
Thursday, August 6, 2026	Short circuit of fault analysis Part -3	3:30PM 5.00PM	Thursday, July 23, 2026	Estimation & Costing - 5	8:00AM - 9:00AM
Friday, August 7, 2026	Power system stability Part - 1	3:30PM 5.00PM	Friday, July 24, 2026	Estimation & Costing - 6	8:00AM - 9:00AM
Monday, August 10, 2026	Power system stability Part - 2	3:30PM 5.00PM	Monday, July 27, 2026	Estimation & Costing - 7	8:00AM - 9:00AM
Tuesday, August 11, 2026	Switchgear and protection Part-1	3:30PM 5.00PM	Tuesday, July 28, 2026	Estimation & Costing - 8	8:00AM - 9:00AM
Wednesday, August 12, 2026	Switchgear and protection Part-2	3:30PM 5.00PM	Wednesday, July 29, 2026	Estimation & Costing - 9	8:00AM - 9:00AM
Thursday, August 13, 2026	Switchgear and protection Part-3	3:30PM 5.00PM	Thursday, July 30, 2026	Estimation & Costing - 10	8:00AM - 9:00AM
Friday, August 14, 2026	Switchgear and protection Part-4	3:30PM 5.00PM			
Monday, August 17, 2026	Switchgear and protection Part-5	3:30PM 5.00PM			
Tuesday, August 18, 2026	Question practice Session	3:30PM 5.00PM			
Wednesday, August 19, 2026	Cables, insulators Part -1	3:30PM 5.00PM			
Thursday, August 20, 2026	Cables, insulators Part -2	3:30PM 5.00PM			
Friday, August 21, 2026	Circuit Breakers Part -1	3:30PM 5.00PM			
Monday, August 24, 2026	Circuit Breakers Part -2	3:30PM 5.00PM			
Tuesday, August 25, 2026	Question practice Session	3:30PM 5.00PM			
<b>Measurement and instrumentation</b>					
<b>Date</b>	<b>Topic</b>	<b>Timing</b>			
Wednesday, August 26, 2026	Introduction to Electrical & Electronics Engineering Measurements	3:30PM 5.00PM			
Thursday, August 27, 2026	Error Analysis Part-1	3:30PM 5.00PM			
Friday, August 28, 2026	Error Analysis Part-2	3:30PM 5.00PM			
Monday, August 31, 2026	Types of Dampings and torques	3:30PM 5.00PM			
Tuesday, September 1, 2026	PMMC	3:30PM 5.00PM			
Wednesday, September 2, 2026	Rectifier type instruments	3:30PM 5.00PM			

Thursday, September 3, 2026	Moving iron type instruments -1	3:30PM 5.00PM		
Friday, September 4, 2026	Moving iron type instruments -2	3:30PM 5.00PM		
Monday, September 7, 2026		3:30PM 5.00PM		
Tuesday, September 8, 2026	Power factor meter, flux meter, Frequency meter	3:30PM 5.00PM		
Wednesday, September 9, 2026	Measurement of Power-1	3:30PM 5.00PM		
Thursday, September 10, 2026	Measurement of Power-2	3:30PM 5.00PM		
Friday, September 11, 2026	Energy meter -1	3:30PM 5.00PM		
Monday, September 14, 2026	Energy meter -2	3:30PM 5.00PM		
Tuesday, September 15, 2026	Instrument transformers Part-1	3:30PM 5.00PM		
Wednesday, September 16, 2026	Instrument transformers Part-2	3:30PM 5.00PM		
Thursday, September 17, 2026	CRO - 1	3:30PM 5.00PM		
Friday, September 18, 2026	CRO - 2	3:30PM 5.00PM		
Monday, September 21, 2026	AC bridges 1	3:30PM 5.00PM		
Tuesday, September 22, 2026	AC bridges 2	3:30PM 5.00PM		
<b>Ashish SIR: Basic Electronics</b>				
<b>Date</b>	<b>Topic</b>	<b>Timing</b>		
Wednesday, September 23, 2026	Introduction to Basic Electronics	3:30PM 5.00PM		
Thursday, September 24, 2026	Basics of Semiconductor Materials Part-1	3:30PM 5.00PM		
Friday, September 25, 2026	Basics of Semiconductor Materials Part-2	3:30PM 5.00PM		
Monday, September 28, 2026	Semiconductor Physics Part-1	3:30PM 5.00PM		
Tuesday, September 29, 2026	Semiconductor Physics Part-2	3:30PM 5.00PM		
Wednesday, September 30, 2026	PN Junction Diode Part-1	3:30PM 5.00PM		
Thursday, October 1, 2026	PN Junction Diode Part-2	3:30PM 5.00PM		

Monday, October 5, 2026	Zener Diode Part -1	3:30PM 5.00PM		
Tuesday, October 6, 2026	Zener Diode Part -2	3:30PM 5.00PM		
Wednesday, October 7, 2026	Tunnel diode, LED	3:30PM 5.00PM		
Thursday, October 8, 2026	PhotoDiode, Shottcky Diode	3:30PM 5.00PM		
Friday, October 9, 2026	BJT Part-1	3:30PM 5.00PM		
Monday, October 12, 2026	BJT Part-2	3:30PM 5.00PM		
Tuesday, October 13, 2026	BJT Part-3	3:30PM 5.00PM		
Wednesday, October 14, 2026	BJT Part-4	3:30PM 5.00PM		
Thursday, October 15, 2026	BJT Part-5	3:30PM 5.00PM		
Friday, October 16, 2026	BJT Part-6	3:30PM 5.00PM		
Monday, October 19, 2026	BJT Part-7	3:30PM 5.00PM		
Tuesday, October 20, 2026	FeedBack Amplifier	3:30PM 5.00PM		
Wednesday, October 21, 2026	Power amplifier	3:30PM 5.00PM		
Thursday, October 22, 2026	FET introduction and working	3:30PM 5.00PM		
Friday, October 23, 2026	MCQs on FET	3:30PM 5.00PM		
Monday, October 26, 2026	MOSFET introduction and working	3:30PM 5.00PM		
Tuesday, October 27, 2026	Op-amp Part-1	3:30PM 5.00PM		
Wednesday, October 28, 2026	Op-amp Part-2	3:30PM 5.00PM		
Thursday, October 29, 2026	Op-amp Part-3	3:30PM 5.00PM		
Friday, October 30, 2026	Number system Part-1	3:30PM 5.00PM		
Monday, November 2, 2026	Number system Part-2	3:30PM 5.00PM		
Tuesday, November 3, 2026	Boolean algebra	3:30PM 5.00PM		
Wednesday, November 4, 2026	Logic Gates	3:30PM 5.00PM		

Thursday, November 5, 2026	Basics of Power Electronics Part-1	3:30PM 5.00PM			
Friday, November 6, 2026	Basics of Power Electronics Part-2	3:30PM 5.00PM			
Monday, November 9, 2026	SCR Part-1	3:30PM 5.00PM			
Tuesday, November 10, 2026	SCR Part-2	3:30PM 5.00PM			
Wednesday, November 11, 2026	Types of Switches and their working Part-1	3:30PM 5.00PM			
Thursday, November 12, 2026	Types of Switches and their working Part-2	3:30PM 5.00PM			
Friday, November 13, 2026	Types of Switches and their working Part-3	3:30PM 5.00PM			
Monday, November 16, 2026	Miscellaneous	3:30PM 5.00PM			

