

## STUDY PLAN

Ashish SIR : UEE			Ashish Sir : Power Systems		
			Date	Topic	Timing
			Monday, February 2, 2026	Introduction to Power Systems	5:00PM - 6:00PM
			Tuesday, February 3, 2026	Generation (Thermal Power plant, Hydro Power Plant)	5:00PM - 6:00PM
			Wednesday, February 4, 2026	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	5:00PM - 6:00PM
			Thursday, February 5, 2026	Economic Load factors (Load factor, capacity factor etc.)	5:00PM - 6:00PM
			Friday, February 6, 2026	Per unit method Part-1	5:00PM - 6:00PM
			Monday, February 9, 2026	Per unit method Part-2	5:00PM - 6:00PM
			Tuesday, February 10, 2026	Question practice Session	5:00PM - 6:00PM
			Wednesday, February 11, 2026	Power factor improvement Part-1	5:00PM - 6:00PM
			Thursday, February 12, 2026	Power factor improvement Part-2	5:00PM - 6:00PM
			Friday, February 13, 2026	Power factor improvement Part-3	5:00PM - 6:00PM
			Monday, February 16, 2026	Power factor improvement Part - 4	5:00PM - 6:00PM
			Tuesday, February 17, 2026	Question practice Session	5:00PM - 6:00PM
			Wednesday, February 18, 2026	Transmission line parameters Part-1	5:00PM - 6:00PM
			Thursday, February 19, 2026	Transmission line parameters Part-2	5:00PM - 6:00PM
			Friday, February 20, 2026	Transmission line parameters Part-3	5:00PM - 6:00PM
			Monday, February 23, 2026	Short circuit of fault analysis Part -1	5:00PM - 6:00PM
			Tuesday, February 24, 2026	Short circuit of fault analysis Part -2	5:00PM - 6:00PM
			Wednesday, February 25, 2026	Question practice Session	5:00PM - 6:00PM
			Thursday, February 26, 2026	Short circuit of fault analysis Part -3	5:00PM - 6:00PM
			Friday, February 27, 2026	Power system stability Part - 1	5:00PM - 6:00PM
			Monday, March 2, 2026	Power system stability Part - 2	5:00PM - 6:00PM
			Tuesday, March 3, 2026	Switchgear and protection Part-1	5:00PM - 6:00PM
Date			Topic		
Timing					
Monday, January 12, 2026	Type of Motor and Characteristics	2:30PM 3:30PM			
Tuesday, January 13, 2026	Type of loads	2:30PM 3:30PM			
Wednesday, January 14, 2026	System of electric traction and track electrification	2:30PM 3:30PM			
Thursday, January 15, 2026	Speed-time curves for different services	2:30PM 3:30PM			
Friday, January 16, 2026	Calculation of various quantities of Electrical Traction	2:30PM 3:30PM			
Monday, January 19, 2026	Methods of Electrical Heating	2:30PM 3:30PM			
Tuesday, January 20, 2026	Methods of Electrical Welding	2:30PM 3:30PM			
Wednesday, January 21, 2026	Introduction and terms used in Illumination	2:30PM 3:30PM			
Thursday, January 22, 2026	Discharge Lamps, MV and SV Lamps	2:30PM 3:30PM			
Friday, January 23, 2026	Basic Principle of Light Control , Types and design of lightning and flood lighting	2:30PM 3:30PM			
END OF SUBJECT					
Date			Topic		
Timing					
			Ashish Sir : Control system		
Monday, January 26, 2026	Basic of Control System	2:30PM 3:30PM			
Tuesday, January 27, 2026	Transfer Function Analysis of AC and DC servomotor	2:30PM 3:30PM			
Wednesday, January 28, 2026	Control system Representation	2:30PM 3:30PM			
Thursday, January 29, 2026	Time Response Analysis Part-1	2:30PM 3:30PM			
Friday, January 30, 2026	Time Response Analysis Part-2	2:30PM 3:30PM			

Monday, February 2, 2026	Routh Hurwitz Criterion, Root Locus	2:30PM 3:30PM	Wednesday, March 4, 2026	Switchgear and protection Part-2	5:00PM - 6:00PM
Tuesday, February 3, 2026	Bode Plotting using semi log graph paper	2:30PM 3:30PM	Thursday, March 5, 2026	Switchgear and protection Part-3	5:00PM - 6:00PM
Wednesday, February 4, 2026	Compensator	2:30PM 3:30PM	Friday, March 6, 2026	Switchgear and protection Part-4	5:00PM - 6:00PM
Thursday, February 5, 2026	Controller	2:30PM 3:30PM	Monday, March 9, 2026	Switchgear and protection Part-5	5:00PM - 6:00PM
<b>Ashish Sir - Network Theory</b>			Tuesday, March 10, 2026	Question practice Session	5:00PM - 6:00PM
<b>Date</b>	<b>Topic</b>	<b>Timing</b>	Wednesday, March 11, 2026	Cables, insulators Part -1	5:00PM - 6:00PM
Tuesday, February 10, 2026	Electric Potential	2:30PM 3:30PM	Thursday, March 12, 2026	Cables, insulators Part -2	5:00PM - 6:00PM
Wednesday, February 11, 2026	Ohms law, Concept of Resistance	2:30PM 3:30PM	Friday, March 13, 2026	Circuit Breakers Part -1	5:00PM - 6:00PM
Thursday, February 12, 2026	Types Of Circuit Elements	2:30PM 3:30PM	Monday, March 16, 2026	Circuit Breakers Part -2	5:00PM - 6:00PM
Friday, February 13, 2026	Concept of Inductor	2:30PM 3:30PM	Tuesday, March 17, 2026	Question practice Session	5:00PM - 6:00PM
Monday, February 16, 2026	Concept of Capacitance & Laplace transforms	2:30PM 3:30PM	<b>Measurement and instrumentation</b>		
Tuesday, February 17, 2026	Some Functions & Their Laplace Transforms	2:30PM 3:30PM	<b>Date</b>	<b>Topic</b>	<b>Timing</b>
Wednesday, February 18, 2026	Resistance in Series and Parallel & Star Delta conversion	2:30PM 3:30PM	Thursday, March 19, 2026	Introduction to Electrical & Electronics Engineering Measurements	5:00PM - 6:00PM
Thursday, February 19, 2026	Capacitance in Series and Parallel	2:30PM 3:30PM	Friday, March 20, 2026	Error Analysis Part-1	5:00PM - 6:00PM
Friday, February 20, 2026	KVL and KCL	2:30PM 3:30PM	Monday, March 23, 2026	Error Analysis Part-2	5:00PM - 6:00PM
Monday, February 23, 2026	Question Practice Session	2:30PM 3:30PM	Tuesday, March 24, 2026	Types of Dampings and torques	5:00PM - 6:00PM
Tuesday, February 24, 2026	Questions Practice Session	2:30PM 3:30PM	Wednesday, March 25, 2026	PMMC	5:00PM - 6:00PM
Wednesday, February 25, 2026	Network Theorem	2:30PM 3:30PM	Thursday, March 26, 2026	Rectifier type instruments	5:00PM - 6:00PM
Thursday, February 26, 2026	(Superposition Theorem)	2:30PM 3:30PM	Friday, March 27, 2026	Moving iron type instruments -1	5:00PM - 6:00PM
Friday, February 27, 2026	Thevenin's, Nortons Theorem	2:30PM 3:30PM	Monday, March 30, 2026	Moving iron type instruments -2	5:00PM - 6:00PM
Monday, March 2, 2026	Maximum Power Transfer Theorem	2:30PM 3:30PM	Tuesday, March 31, 2026		5:00PM - 6:00PM
Tuesday, March 3, 2026	Tellegen's, Milliman's & Reciprocity Theorem	2:30PM 3:30PM	Wednesday, April 1, 2026	Power factor meter, flux meter, Frequency meter	5:00PM - 6:00PM
Wednesday, March 4, 2026	AC Fundamentals	2:30PM 3:30PM	Thursday, April 2, 2026	Measurement of Power-1	5:00PM - 6:00PM
Thursday, March 5, 2026	Series Resonance	2:30PM 3:30PM	Friday, April 3, 2026	Measurement of Power-2	5:00PM - 6:00PM
Friday, March 6, 2026	Parallel Resonance	2:30PM 3:30PM	Monday, April 6, 2026	Energy meter -1	5:00PM - 6:00PM
Monday, March 9, 2026	Performance Parameters of Series and Parallel Resonance	2:30PM 3:30PM	Tuesday, April 7, 2026	Energy meter -2	5:00PM - 6:00PM

Tuesday, March 10, 2026	Average & RMS values of difference waveforms	2:30PM 3:30PM	Wednesday, April 8, 2026	Instrument transformers Part-1	5:00PM - 6:00PM
Wednesday, March 11, 2026	Two Port Networks & Graph Theory	2:30PM 3:30PM	Thursday, April 9, 2026	Instrument transformers Part-2	5:00PM - 6:00PM
Thursday, March 12, 2026	Graph Theory and Questions	2:30PM 3:30PM	Friday, April 10, 2026	CRO - 1	5:00PM - 6:00PM
Friday, March 13, 2026	Poly phase Network	2:30PM 3:30PM	Monday, April 13, 2026	CRO - 2	5:00PM - 6:00PM
Monday, March 16, 2026	Poly phase Network	2:30PM 3:30PM	Tuesday, April 14, 2026	AC bridges 1	5:00PM - 6:00PM
Tuesday, March 17, 2026	Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor	2:30PM 3:30PM	Wednesday, April 15, 2026	AC bridges 2	5:00PM - 6:00PM
<b>Ashish SIR : Electrical Machine</b>			<b>Ashish SIR: Basic Electronics</b>		
<b>Date</b>	<b>Topic</b>	<b>Timing</b>	<b>Date</b>	<b>Topic</b>	<b>Timing</b>
Recorded	Introduction to Electrical Machines	2:30PM 3:30PM	Monday, April 20, 2026	Introduction to Basic Electronics	5:00PM - 6:00PM
Recorded	Basic Concepts of Magnetic Materials	2:30PM 3:30PM	Tuesday, April 21, 2026	Basics of Semiconductor Materials Part-1	5:00PM - 6:00PM
Recorded	Basic concepts of Rotating Machines	2:30PM 3:30PM	Wednesday, April 22, 2026	Basics of Semiconductor Materials Part-2	5:00PM - 6:00PM
Recorded	Working of DC Generators	2:30PM 3:30PM	Thursday, April 23, 2026	Semiconductor Physics Part-1	5:00PM - 6:00PM
Recorded	Construction of DC Machines	2:30PM 3:30PM	Friday, April 24, 2026	Semiconductor Physics Part-2	5:00PM - 6:00PM
Recorded	Commutator & Types of Windings	2:30PM 3:30PM	Monday, April 27, 2026	PN Junction Diode Part-1	5:00PM - 6:00PM
Recorded	Emf Equation of DC Generators	2:30PM 3:30PM	Tuesday, April 28, 2026	PN Junction Diode Part-2	5:00PM - 6:00PM
Recorded	Type of DC Generators	2:30PM 3:30PM	Wednesday, April 29, 2026	Zener Diode Part -1	5:00PM - 6:00PM
Recorded	Questions on DC Generators	2:30PM 3:30PM	Thursday, April 30, 2026	Zener Diode Part -2	5:00PM - 6:00PM
Recorded	Armature reaction of DC Generators-1	2:30PM 3:30PM	Friday, May 1, 2026	Tunnel diode, LED	5:00PM - 6:00PM
Recorded	Armature reaction of DC Generators-2	2:30PM 3:30PM	Monday, May 4, 2026	PhotoDiode, Shottcky Diode	5:00PM - 6:00PM
Recorded	Commutation in DC Machines	2:30PM 3:30PM	Tuesday, May 5, 2026	BJT Part-1	5:00PM - 6:00PM
Recorded	Methods of improving commutations	2:30PM 3:30PM	Wednesday, May 6, 2026	BJT Part-2	5:00PM - 6:00PM
Recorded	Characteristics of DC Generators	2:30PM 3:30PM	Thursday, May 7, 2026	BJT Part-3	5:00PM - 6:00PM
Recorded	Basic Principle of Motor	2:30PM 3:30PM	Friday, May 8, 2026	BJT Part-4	5:00PM - 6:00PM
Recorded	Torque Equation of DC Motors	2:30PM 3:30PM	Monday, May 11, 2026	BJT Part-5	5:00PM - 6:00PM
Recorded	Speed control of DC Motors	2:30PM 3:30PM	Tuesday, May 12, 2026	BJT Part-6	5:00PM - 6:00PM
Recorded	Starting and Braking methods of DC Motors	2:30PM 3:30PM	Wednesday, May 13, 2026	BJT Part-7	5:00PM - 6:00PM

Recorded	Efficiency and testing methods of DC Motors	2:30PM 3:30PM	Thursday, May 14, 2026	FeedBack Amplifier	5:00PM - 6:00PM
Recorded	Basics of Transformers	2:30PM 3:30PM	Friday, May 15, 2026	Power amplifier	5:00PM - 6:00PM
Recorded	Construction of transformers & Emf Equation of transformers,	2:30PM 3:30PM	Monday, May 18, 2026	FET introduction and working	5:00PM - 6:00PM
Recorded	Equivalent circuit, O.C. & S.C. Tests	2:30PM 3:30PM	Tuesday, May 19, 2026	MCQs on FET	5:00PM - 6:00PM
Recorded	Voltage regulation of transformers, Losses and efficiency of transformers	2:30PM 3:30PM	Wednesday, May 20, 2026	MOSFET introduction and working	5:00PM - 6:00PM
Recorded	3 Phase transformers, Parallel operation of transformers	2:30PM 3:30PM	Thursday, May 21, 2026	Op-amp Part-1	5:00PM - 6:00PM
Recorded	Construction & Working of 3-Phase Induction Machines	2:30PM 3:30PM	Friday, May 22, 2026	Op-amp Part-2	5:00PM - 6:00PM
Recorded	Working & Equivalent Circuit of 3-Phase Induction Machines	2:30PM 3:30PM	Monday, May 25, 2026	Op-amp Part-3	5:00PM - 6:00PM
Recorded	Torque Equation of 3-Phase induction Machines	2:30PM 3:30PM	Tuesday, May 26, 2026	Number system Part-1	5:00PM - 6:00PM
Recorded	Torque slip characteristics of 3-phase induction Motors	2:30PM 3:30PM	Wednesday, May 27, 2026	Number system Part-2	5:00PM - 6:00PM
Recorded	Starters & Braking methods of 3-Phase induction machines	2:30PM 3:30PM	Thursday, May 28, 2026	Boolean algebra	5:00PM - 6:00PM
Recorded	Speed control of 3-Phase induction motors	2:30PM 3:30PM	Friday, May 29, 2026	Logic Gates	5:00PM - 6:00PM
Monday, December 22, 2025	Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors	2:30PM 3:30PM	Monday, June 1, 2026	Basics of Power Electronics Part-1	5:00PM - 6:00PM
Tuesday, December 23, 2025	Construction and working of 1-Phase induction motors	2:30PM 3:30PM	Tuesday, June 2, 2026	Basics of Power Electronics Part-2	5:00PM - 6:00PM
Wednesday, December 24, 2025	Split phase Induction Motors, Capacitor start, Capacitor start capacitor run, Shaded pole Induction Motors	2:30PM 3:30PM	Wednesday, June 3, 2026	SCR Part-1	5:00PM - 6:00PM
Thursday, December 25, 2025	Hysteresis, Switched Reluctance motors, stepper motors	2:30PM 3:30PM	Thursday, June 4, 2026	SCR Part-2	5:00PM - 6:00PM
Friday, December 26, 2025	Construction & Working of 3-phase Synchronous Machines	2:30PM 3:30PM	Friday, June 5, 2026	Types of Switches and their working Part-1	5:00PM - 6:00PM
Monday, December 29, 2025	Armature reaction of 3-Phase synchronous generators at unity, Lagging pf & Leading pf	2:30PM 3:30PM	Monday, June 8, 2026	Types of Switches and their working Part-2	5:00PM - 6:00PM
Tuesday, December 30, 2025	Voltage Regulation of 3-Phase Synchronous generators	2:30PM 3:30PM	Tuesday, June 9, 2026	Types of Switches and their working Part-3	5:00PM - 6:00PM
Wednesday, December 31, 2025	Power flow, Synchronous condenser & important curves in synchronous machines in Synchronous Machines	2:30PM 3:30PM	Wednesday, June 10, 2026	Miscellaneous	5:00PM - 6:00PM
Thursday, January 1, 2026	Parallel Operation of Synchronous Machines	2:30PM 3:30PM			
Friday, January 2, 2026	Working of 3-Phase synchronous motors	2:30PM 3:30PM			
Monday, January 5, 2026	Starting methods of synchronous motors, Synchronizing coefficient	2:30PM 3:30PM			
Tuesday, January 6, 2026	Testings in Synchronous Machines	2:30PM 3:30PM			