STUDY PLAN

Ashish SIR : Electrical Machine			Ashish Sir - Network Theory			Avinash Sir : Digital Electronics		
Date	**Topic**	**Timing**	**Date**	**Topic**	**Timing**	**Date**	**Topic**	**Timing**
Monday, May 18, 2026	Introduction to Electrical Machines	5:30PM-7.00PM	Monday, May 18, 2026	Parallel Resonance	3:30PM - 4:30PM	Monday, May 18, 2026	**Orientation**	8.30 PM - 9.30 PM
Tuesday, May 19, 2026	Basic Concepts of Magnetic Materials	5:30PM-7.00PM	Tuesday, May 19, 2026	Performance Parameters of Series and Parallel Resonance	3:30PM - 4:30PM	Tuesday, May 19, 2026	Introduction to Number systems	8.30 PM - 9.30 PM
Wednesday, May 20, 2026	Basic concepts of Rotating Machines	5:30PM-7.00PM	Wednesday, May 20, 2026	Average & RMS values of difference waveforms	3:30PM - 4:30PM	Wednesday, May 20, 2026	Addition in different base	8.30 PM - 9.30 PM
Thursday, May 21, 2026	Working of DC Generators	5:30PM-7.00PM	Thursday, May 21, 2026	Two Port Networks & Graph Theory	3:30PM - 4:30PM	Thursday, May 21, 2026	Subtraction in Different Base	8.30 PM - 9.30 PM
Friday, May 22, 2026	Constrution of DC Machines	5:30PM-7.00PM	Friday, May 22, 2026	Graph Theory and Questions	3:30PM - 4:30PM	Friday, May 22, 2026	Complements	8.30 PM - 9.30 PM
Monday, May 25, 2026	Commutator & Types of Windings	5:30PM-7.00PM	Monday, May 25, 2026	Poly phase Network	3:30PM - 4:30PM	Monday, May 25, 2026	Interconversions part-1	8.30 PM - 9.30 PM
Tuesday, May 26, 2026	Emf Equation of DC Generators	5:30PM-7.00PM	Tuesday, May 26, 2026	Poly phase Network	3:30PM - 4:30PM	Tuesday, May 26, 2026	Interconversions part-2	8.30 PM - 9.30 PM
Wednesday, May 27, 2026	Type of DC Generators	5:30PM-7.00PM	Wednesday, May 27, 2026	Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor	3:30PM - 4:30PM	Wednesday, May 27, 2026	Binary Codes,BCD	8.30 PM - 9.30 PM
Thursday, May 28, 2026	Questions on DC Generators	5:30PM-7.00PM	Thursday, May 28, 2026	Electric Potential	3:30PM - 4:30PM	Thursday, May 28, 2026	Excess-3 and Gray Codes	8.30 PM - 9.30 PM
Friday, May 29, 2026	Armature reaction of DC Generators-1	5:30PM-7.00PM	Friday, May 29, 2026	Ohms law, Concept of Resistance	3:30PM - 4:30PM	Friday, May 29, 2026	Practice Questions	8.30 PM - 9.30 PM
Monday, June 1, 2026	Armature reaction of DC Generators-2	5:30PM-7.00PM	Monday, June 1, 2026	Types Of Circuit Elements	3:30PM - 4:30PM	Monday, June 1, 2026	Axioms and Operations	8.30 PM - 9.30 PM
Tuesday, June 2, 2026	Commutation in DC Machines	5:30PM-7.00PM	Tuesday, June 2, 2026	Concept of Inductor	3:30PM - 4:30PM	Tuesday, June 2, 2026	Laws of Boolean Algebra	8.30 PM - 9.30 PM
Wednesday, June 3, 2026	Methods of improving commutations	5:30PM-7.00PM	Wednesday, June 3, 2026	Concept of Capacitance & Laplace transforms	3:30PM - 4:30PM	Wednesday, June 3, 2026	SOP and POS representation part-1	8.30 PM - 9.30 PM
Thursday, June 4, 2026	Characteristics of DC Generators	5:30PM-7.00PM	Thursday, June 4, 2026	Some Functions & Their Laplace Transforms	3:30PM - 4:30PM	Thursday, June 4, 2026	SOP and POS representation part-2	8.30 PM - 9.30 PM
Friday, June 5, 2026	Basic Principle of Motor	5:30PM-7.00PM	Friday, June 5, 2026	Resistance in Series and Parallel & Star Delta conversion	3:30PM - 4:30PM	Friday, June 5, 2026	Basic Gates	8.30 PM - 9.30 PM
Monday, June 8, 2026	Torque Equation of DC Motors	5:30PM-7.00PM	Monday, June 8, 2026	Capacitance in Series and Parallel	3:30PM - 4:30PM	Monday, June 8, 2026	Special Gates	8.30 PM - 9.30 PM
Tuesday, June 9, 2026	Speed control of DC Motors	5:30PM-7.00PM	Tuesday, June 9, 2026	KVL and KCL	3:30PM - 4:30PM	Tuesday, June 9, 2026	Universal Gates	8.30 PM - 9.30 PM
Wednesday, June 10, 2026	Starting and Braking methods of DC Motors	5:30PM-7.00PM	Wednesday, June 10, 2026	Question Practice Session	3:30PM - 4:30PM	Wednesday, June 10, 2026	Circuits of Gates	8.30 PM - 9.30 PM
Thursday, June 11, 2026	Efficiency and testing methods of DC Motors	5:30PM-7.00PM	Thursday, June 11, 2026	Questions Practice Session	3:30PM - 4:30PM	Thursday, June 11, 2026	Adders	8.30 PM - 9.30 PM

Friday, June 12, 2026	Basics of Transformers	5:30PM-7.00PM	Friday, June 12, 2026	Network Theorem	3:30PM - 4:30PM	Friday, June 12, 2026	Subtractors	8.30 PM - 9.30 PM
Monday, June 15, 2026	Construction of transformers & Emf Equation of transformers,	5:30PM-7.00PM	Monday, June 15, 2026	(Superposition Theorem)	3:30PM - 4:30PM	Monday, June 15, 2026	Multiplexers part-1	8.30 PM - 9.30 PM
Tuesday, June 16, 2026	Equivalent circuit, O.C.& S.C. Tests	5:30PM-7.00PM	Tuesday, June 16, 2026	Thevenin's, Nortons Theorem	3:30PM - 4:30PM	Tuesday, June 16, 2026	Multiplexers part-2	8.30 PM - 9.30 PM
Wednesday, June 17, 2026	Voltage regulation of transformers,Losses and efficiency of transformers	5:30PM-7.00PM	Wednesday, June 17, 2026	Maximum Power Transfer Theorem	3:30PM - 4:30PM	Wednesday, June 17, 2026	Demultiplexers and Decoders	8.30 PM - 9.30 PM
Thursday, June 18, 2026	3 Phase transformers,Parallel operation of transformers	5:30PM-7.00PM	Thursday, June 18, 2026	Tellegen's, Milliman's & Reciprocity Theorem	3:30PM - 4:30PM	Thursday, June 18, 2026	Practice Questions	8.30 PM - 9.30 PM
Friday, June 19, 2026	Construction & Working of 3-Phase Induction Machines	5:30PM-7.00PM	Friday, June 19, 2026	AC Fundamentals	3:30PM - 4:30PM	Friday, June 19, 2026	Introduction to flip flops	8.30 PM - 9.30 PM
Monday, June 22, 2026	Working & Equivalent Circuitof 3-Phase Induction Machines	5:30PM-7.00PM	Monday, June 22, 2026	Series Resonance	3:30PM - 4:30PM	Monday, June 22, 2026	Different types of Flip flops	8.30 PM - 9.30 PM
Tuesday, June 23, 2026	Torque Equation of 3-Phase induction Machines	5:30PM-7.00PM	**Ashish Sir - Power Electronics**			Tuesday, June 23, 2026	Counters Basics	8.30 PM - 9.30 PM
Wednesday, June 24, 2026	Torque slip characteristics of 3-phase induction Motors	5:30PM-7.00PM	**Date**	**Topic**	**Timing**	Wednesday, June 24, 2026	Counters Basics	8.30 PM - 9.30 PM
Thursday, June 25, 2026	Starters & Braking methods of 3-Phase induction machines	5:30PM-7.00PM	Tuesday, June 23, 2026	Power Electronics-1	3:30PM - 4:30PM	Thursday, June 25, 2026	Practice Questions	8.30 PM - 9.30 PM
Friday, June 26, 2026	Speed control of 3-Phase induction motors	5:30PM-7.00PM	Wednesday, June 24, 2026	Power Electronics-2	3:30PM - 4:30PM	Friday, June 26, 2026	A/D Convertors	8.30 PM - 9.30 PM
Monday, June 29, 2026	Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors	5:30PM-7.00PM	Thursday, June 25, 2026	Power Electronics-3	3:30PM - 4:30PM	Monday, June 29, 2026	D/A Convertors	8.30 PM - 9.30 PM
Tuesday, June 30, 2026	Consturction and working of 1-Phase induction motors	5:30PM-7.00PM	Friday, June 26, 2026	Power Electronics-4	3:30PM - 4:30PM	Tuesday, June 30, 2026	Practice Questions	8.30 PM - 9.30 PM
Wednesday, July 1, 2026	Split phase Induction Motors, Capacitor start, Capacitor start capacitor run, Shaded pole Induction Motors	5:30PM-7.00PM	Monday, June 29, 2026	Power Electronics-5	3:30PM - 4:30PM	Wednesday, July 1, 2026	Memories	8.30 PM - 9.30 PM
Thursday, July 2, 2026	Hysteresis, Switched Reluctance motors, stepper motors	5:30PM-7.00PM	Tuesday, June 30, 2026	Power Electronics-6	3:30PM - 4:30PM	**Avinash Sir : Signal and system**		
Friday, July 3, 2026	Construction & Working of 3-phase Synchronous Machines	5:30PM-7.00PM	Wednesday, July 1, 2026	Power Electronics-7	3:30PM - 4:30PM	**Date**	**Topic**	**Timing**
Monday, July 6, 2026	Armature reaction of 3-Phase synchronous generators at unity , Lagging pf & Leading pf	5:30PM-7.00PM	Thursday, July 2, 2026	Power Electronics-8	3:30PM - 4:30PM	Thursday, July 2, 2026	Signal operation-1	8.30 PM - 9.30 PM
Tuesday, July 7, 2026	Voltage Regulation of 3-Phase Synchronous generators	5:30PM-7.00PM	Friday, July 3, 2026	Power Electronics-9	3:30PM - 4:30PM	Friday, July 3, 2026	Signal operation-2	8.30 PM - 9.30 PM
Wednesday, July 8, 2026	Power flow,Synchronous condenser & important curves in synchronous machines in Synchronous Machines	5:30PM-7.00PM	Monday, July 6, 2026	Power Electronics-10	3:30PM - 4:30PM	Monday, July 6, 2026	Signal operation-3	8.30 PM - 9.30 PM
Thursday, July 9, 2026	Parallel Operation of Synchronous Machines	5:30PM-7.00PM	Tuesday, July 7, 2026	Power Electronics-11	3:30PM - 4:30PM	Tuesday, July 7, 2026	syestem-1	8.30 PM - 9.30 PM
Friday, July 10, 2026	Working of 3-Phase synchornous motors	5:30PM-7.00PM	Wednesday, July 8, 2026	Power Electronics-12	3:30PM - 4:30PM	Wednesday, July 8, 2026	syestem-2	8.30 PM - 9.30 PM
Monday, July 13, 2026	Starting methods of synchronous motors, Synchronizing coefficient	5:30PM-7.00PM	Thursday, July 9, 2026	Power Electronics-13	3:30PM - 4:30PM	Thursday, July 9, 2026	syestem-3	8.30 PM - 9.30 PM
Tuesday, July 14, 2026	Testings in Synchronous Machines	5:30PM-7.00PM	Friday, July 10, 2026	Power Electronics-14	3:30PM - 4:30PM	Friday, July 10, 2026	Fourier series	8.30 PM - 9.30 PM

Ashish Sir : Control system			Ashish Sir : Power Systems					
Date	**Topic**	**Timing**	**Date**	**Topic**	**Timing**	Monday, July 13, 2026	Fourier transform representations-1	8.30 PM - 9.30 PM
						Tuesday, July 14, 2026	Fourier transform representations-2	8.30 PM - 9.30 PM
Recordings will be added on 18th May	Introduction	Recording-1	Recordings will be added by 18th May	Introduction to Power Systems	Recording-1	Wednesday, July 15, 2026	Discrete Fourier transform-1	8.30 PM - 9.30 PM
	Basics of Control Systems	Recording-2		Generation (Thermal Power plant, Hydro Power Plant)	Recording-2	Thursday, July 16, 2026	Discrete Fourier transform-2	8.30 PM - 9.30 PM
	Concept of Transfer Function	Recording-3		Generation (Nuclear Power Plant), Renewable & Non renewable power plant	Recording-3	Friday, July 17, 2026	Discrete Fourier transform-3	8.30 PM - 9.30 PM
	Mechanical System	Recording-4		Economic Load factors (Load factor, capacity factor etc.)	Recording-4	Monday, July 20, 2026	Discrete Fourier transform-4	8.30 PM - 9.30 PM
	Block Diagram Reduction Technique & SFG	Recording-5		Per unit method Part-1	Recording-5	Tuesday, July 21, 2026	LTI Systems-1	8.30 PM - 9.30 PM
	Block Diagram Reduction Technique & SFG	Recording-6		Per unit method Part-2	Recording-6	Wednesday, July 22, 2026	LTI Systems-2	8.30 PM - 9.30 PM
	Block Diagram Reduction Technique & SFG	Recording-7		Question practice Session	Recording-7	Thursday, July 23, 2026	LTI Systems-3	8.30 PM - 9.30 PM
	Time Domain Analysis	Recording-8		Power factor improvement Part-1	Recording-8			
	Time Domain Analysis	Recording-9		Power factor improvement Part-2	Recording-9			
	Time Domain Analysis	Recording-10		Power factor improvement Part-3	Recording-10			
	Time Domain Analysis	Recording-11		Power factor improvement Part - 4	Recording-11			
	Stability	Recording-12		Question practice Session	Recording-12			
	Stability	Recording-13		Transmission line parameters Part-1	Recording-13			
	Root Locus Technique	Recording-14		Transmission line parameters Part-2	Recording-14			
	Root Locus Technique	Recording-15		Transmission line parameters Part-3	Recording-15			
	Root Locus Technique	Recording-16		Short circuit of fault analysis Part -1	Recording-16			
	Root Locus Technique	Recording-17		Short circuit of fault analysis Part -2	Recording-17			
	Frequency Domain Analysis	Recording-18		Question practice Session	Recording-18			
	Frequency Domain Analysis	Recording-19		Short circuit of fault analysis Part -3	Recording-19			
	Frequency Domain Analysis	Recording-20		Power system stability Part - 1	Recording-20			

	Polar Plots	Recording-21		Power system stability Part - 2	Recording-21			
	Polar Plots	Recording-22		Switchgear and protection Part-1	Recording-22			
	Polar Plots	Recording-23		Switchgear and protection Part-2	Recording-23			
	Nyquist Plot	Recording-24		Switchgear and protection Part-3	Recording-24			
	Nyquist Plot	Recording-25		Switchgear and protection Part-4	Recording-25			
	Nyquist Plot	Recording-26		Switchgear and protection Part-5	Recording-26			
	Bode Plot	Recording-27		Question practice Session	Recording-27			
	Bode Plot	Recording-28		Cables, insulators Part -1	Recording-28			
	Bode Plot	Recording-29		Cables, insulators Part -2	Recording-29			
	Bode Plot	Recording-30		Circuit Breakers Part -1	Recording-30			
	Bode Plot	Recording-31		Circuit Breakers Part -2	Recording-31			
	State Space Analysis	Recording-32		Question practice Session	Recording-32			
	State Space Analysis	Recording-33		**Ashish Sir : Analog Electronics**				
Ashish Sir : Measurement and instrumentation				**Date**	**Topic**	**Timing**		
Date	**Topic**	**Timing**		Recordings will be added by 18th May	Analog Electronics-1	Recording-1		
Recordings will be added by 18th May	Introduction to Electrical & Electronics Engineering Measurements	Recording-1			Analog Electronics-2	Recording-2		
	Error Analysis Part-1	Recording-2			Analog Electronics-3	Recording-3		
	Error Analysis Part-2	Recording-3			Analog Electronics-4	Recording-4		
	Types of Dampings and torques	Recording-4			Analog Electronics-5	Recording-5		
	PMMC	Recording-5			Analog Electronics-6	Recording-6		
	Rectifier type instruments	Recording-6			Analog Electronics-7	Recording-7		
	Moving iron type instruments -1	Recording-7			Analog Electronics-8	Recording-8		
	Moving iron type instruments -2	Recording-8						

		Recording-9								
	Power factor meter, flux meter, Frequency meter	Recording-10								
	Measurement of Power-1	Recording-11								
	Measurement of Power-2	Recording-12								
	Energy meter -1	Recording-13								
	Energy meter -2	Recording-14								
	Instrument transformers Part-1	Recording-15								
	Instrument transformers Part-2	Recording-16								
	CRO - 1	Recording-17								
	CRO - 2	Recording-18								
	AC bridges 1	Recording-19								
	AC bridges 2	Recording-20								