STUDY PLAN

Ashish SIR : Electrical Machine			Ashish Sir : Power Systems		
Date	**Topic**	**Timing**	**Date**	**Topic**	**Timing**
Friday, May 8, 2026	Introduction to Electrical Machines	8:00AM - 9:00AM	Friday, May 8, 2026	Introduction to Power Systems	3:30PM 5:00PM
Monday, May 11, 2026	Basic Concepts of Magnetic Materials	8:00AM - 9:00AM	Monday, May 11, 2026	Generation (Thermal Power plant, Hydro Power Plant)	3:30PM 5:00PM
Tuesday, May 12, 2026	Basic concepts of Rotating Machines	8:00AM - 9:00AM	Tuesday, May 12, 2026	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	3:30PM 5:00PM
Wednesday, May 13, 2026	Working of DC Generators	8:00AM - 9:00AM	Wednesday, May 13, 2026	Economic Load factors (Load factor, capacity factor etc.)	3:30PM 5:00PM
Thursday, May 14, 2026	Constrution of DC Machines	8:00AM - 9:00AM	Thursday, May 14, 2026	Per unit method Part-1	3:30PM 5:00PM
Friday, May 15, 2026	Commutator & Types of Windings	8:00AM - 9:00AM	Friday, May 15, 2026	Per unit method Part-2	3:30PM 5:00PM
Monday, May 18, 2026	Emf Equation of DC Generators	8:00AM - 9:00AM	Monday, May 18, 2026	Question practice Session	3:30PM 5:00PM
Tuesday, May 19, 2026	Type of DC Generators	8:00AM - 9:00AM	Tuesday, May 19, 2026	Power factor improvement Part-1	3:30PM 5:00PM
Wednesday, May 20, 2026	Questions on DC Generators	8:00AM - 9:00AM	Wednesday, May 20, 2026	Power factor improvement Part-2	3:30PM 5:00PM
Thursday, May 21, 2026	Armature reaction of DC Generators-1	8:00AM - 9:00AM	Thursday, May 21, 2026	Power factor improvement Part-3	3:30PM 5:00PM
Friday, May 22, 2026	Armature reaction of DC Generators-2	8:00AM - 9:00AM	Friday, May 22, 2026	Power factor improvement Part - 4	3:30PM 5:00PM
Monday, May 25, 2026	Commutation in DC Machines	8:00AM - 9:00AM	Monday, May 25, 2026	Question practice Session	3:30PM 5:00PM
Tuesday, May 26, 2026	Methods of improving commutations	8:00AM - 9:00AM	Tuesday, May 26, 2026	Transmission line parameters Part-1	3:30PM 5:00PM
Wednesday, May 27, 2026	Characteristics of DC Generators	8:00AM - 9:00AM	Wednesday, May 27, 2026	Transmission line parameters Part-2	3:30PM 5:00PM
Thursday, May 28, 2026	Basic Principle of Motor	8:00AM - 9:00AM	Thursday, May 28, 2026	Transmission line parameters Part-3	3:30PM 5:00PM
Friday, May 29, 2026	Torque Equation of DC Motors	8:00AM - 9:00AM	Friday, May 29, 2026	Short circuit of fault analysis Part -1	3:30PM 5:00PM
Monday, June 1, 2026	Speed control of DC Motors	8:00AM - 9:00AM	Monday, June 1, 2026	Short circuit of fault analysis Part -2	3:30PM 5:00PM
Tuesday, June 2, 2026	Starting and Braking methods of DC Motors	8:00AM - 9:00AM	Tuesday, June 2, 2026	Question practice Session	3:30PM 5:00PM
Wednesday, June 3, 2026	Efficiency and testing methods of DC Motors	8:00AM - 9:00AM	Wednesday, June 3, 2026	Short circuit of fault analysis Part -3	3:30PM 5:00PM

Thursday, June 4, 2026	Basics of Transformers	8:00AM - 9:00AM	Thursday, June 4, 2026	Power system stability Part - 1	3:30PM 5:00PM
Friday, June 5, 2026	Construction of transformers & Emf Equation of transformers,	8:00AM - 9:00AM	Friday, June 5, 2026	Power system stability Part - 2	3:30PM 5:00PM
Monday, June 8, 2026	Equivalent circuit, O.C.& S.C. Tests	8:00AM - 9:00AM	Monday, June 8, 2026	Switchgear and protection Part-1	3:30PM 5:00PM
Tuesday, June 9, 2026	Voltage regulation of transformers,Losses and efficiency of transformers	8:00AM - 9:00AM	Tuesday, June 9, 2026	Switchgear and protection Part-2	3:30PM 5:00PM
Wednesday, June 10, 2026	3 Phase transformers,Parallel operation of transformers	8:00AM - 9:00AM	Wednesday, June 10, 2026	Switchgear and protection Part-3	3:30PM 5:00PM
Thursday, June 11, 2026	Construction & Working of 3-Phase Induction Machines	8:00AM - 9:00AM	Thursday, June 11, 2026	Switchgear and protection Part-4	3:30PM 5:00PM
Friday, June 12, 2026	Working & Equivalent Circuitof 3-Phase Induction Machines	8:00AM - 9:00AM	Friday, June 12, 2026	Switchgear and protection Part-5	3:30PM 5:00PM
Monday, June 15, 2026	Torque Equation of 3-Phase induction Machines	8:00AM - 9:00AM	Monday, June 15, 2026	Question practice Session	3:30PM 5:00PM
Tuesday, June 16, 2026	Torque slip characteristics of 3-phase induction Motors	8:00AM - 9:00AM	Tuesday, June 16, 2026	Cables, insulators Part -1	3:30PM 5:00PM
Wednesday, June 17, 2026	Starters & Braking methods of 3-Phase induction machines	8:00AM - 9:00AM	Wednesday, June 17, 2026	Cables, insulators Part -2	3:30PM 5:00PM
Thursday, June 18, 2026	Speed control of 3-Phase induction motors	8:00AM - 9:00AM	Thursday, June 18, 2026	Circuit Breakers Part -1	3:30PM 5:00PM
Friday, June 19, 2026	Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors	8:00AM - 9:00AM	Friday, June 19, 2026	Circuit Breakers Part -2	3:30PM 5:00PM
Monday, June 22, 2026	Consturction and working of 1-Phase induction motors	8:00AM - 9:00AM	Monday, June 22, 2026	Question practice Session	3:30PM 5:00PM
Tuesday, June 23, 2026	Split phase Induction Motors, Capacitor start, Capacitor start capacitor run, Shaded pole Induction Motors	8:00AM - 9:00AM	**Measurement and instrumentation**		
Wednesday, June 24, 2026	Hysteresis, Switched Reluctance motors, stepper motors	8:00AM - 9:00AM	**Date**	**Topic**	**Timing**
Thursday, June 25, 2026	Construction & Working of 3-phase Synchronous Machines	8:00AM - 9:00AM	Tuesday, June 23, 2026	Introduction to Electrical & Electronics Engineering Measurements	3:30PM 5:00PM
Friday, June 26, 2026	Armature reaction of 3-Phase synchronous generators at unity , Lagging pf & Leading pf	8:00AM - 9:00AM	Wednesday, June 24, 2026	Error Analysis Part-1	3:30PM 5:00PM
Monday, June 29, 2026	Voltage Regulation of 3-Phase Synchronous generators	8:00AM - 9:00AM	Thursday, June 25, 2026	Error Analysis Part-2	3:30PM 5:00PM
Tuesday, June 30, 2026	Power flow,Synchronous condenser & important curves in synchronous machines in Synchronous Machines	8:00AM - 9:00AM	Friday, June 26, 2026	Types of Dampings and torques	3:30PM 5:00PM
Wednesday, July 1, 2026	Parallel Operation of Synchronous Machines	8:00AM - 9:00AM	Monday, June 29, 2026	PMMC	3:30PM 5:00PM
Thursday, July 2, 2026	Working of 3-Phase synchornous motors	8:00AM - 9:00AM	Tuesday, June 30, 2026	Rectifier type instruments	3:30PM 5:00PM
Friday, July 3, 2026	Starting methods of synchronous motors, Synchronizing coefficient	8:00AM - 9:00AM	Wednesday, July 1, 2026	Moving iron type instruments -1	3:30PM 5:00PM
Monday, July 6, 2026	Testings in Synchronous Machines	8:00AM - 9:00AM	Thursday, July 2, 2026	Moving iron type instruments -2	3:30PM 5:00PM

Ashish SIR : Electronic Devices		
Date	**Topic**	**Timing**
Tuesday, July 7, 2026	Electronic Devices - 1	8:00AM - 9:00AM
Wednesday, July 8, 2026	Electronic Devices - 2	8:00AM - 9:00AM
Thursday, July 9, 2026	Electronic Devices - 3	8:00AM - 9:00AM
Friday, July 10, 2026	Electronic Devices - 4	8:00AM - 9:00AM
Monday, July 13, 2026	Electronic Devices - 5	8:00AM - 9:00AM
Tuesday, July 14, 2026	Electronic Devices - 6	8:00AM - 9:00AM
Wednesday, July 15, 2026	Electronic Devices - 7	8:00AM - 9:00AM
Thursday, July 16, 2026	Electronic Devices - 8	8:00AM - 9:00AM
Friday, July 17, 2026	Electronic Devices - 9	8:00AM - 9:00AM
Monday, July 20, 2026	Electronic Devices - 10	8:00AM - 9:00AM

Ashish Sir : Digital electronics		
Date	**Topic**	**Timing**
Tuesday, July 21, 2026	Number system	8:00AM - 9:00AM
Wednesday, July 22, 2026	Code converter	8:00AM - 9:00AM
Thursday, July 23, 2026	Code converter	8:00AM - 9:00AM
Friday, July 24, 2026	Code converter	8:00AM - 9:00AM
Monday, July 27, 2026	Code converter	8:00AM - 9:00AM
Tuesday, July 28, 2026	Karnaugh map	8:00AM - 9:00AM
Wednesday, July 29, 2026	CMOS implementations	8:00AM - 9:00AM
Friday, July 3, 2026		3:30PM 5:00PM
Monday, July 6, 2026	Power factor meter, flux meter, Frequency meter	3:30PM 5:00PM
Tuesday, July 7, 2026	Measurement of Power-1	3:30PM 5:00PM
Wednesday, July 8, 2026	Measurement of Power-2	3:30PM 5:00PM
Thursday, July 9, 2026	Energy meter -1	3:30PM 5:00PM
Friday, July 10, 2026	Energy meter -2	3:30PM 5:00PM
Monday, July 13, 2026	Instrument transformers Part-1	3:30PM 5:00PM
Tuesday, July 14, 2026	Instrument transformers Part-2	3:30PM 5:00PM
Wednesday, July 15, 2026	CRO - 1	3:30PM 5:00PM
Thursday, July 16, 2026	CRO - 2	3:30PM 5:00PM
Friday, July 17, 2026	AC bridges 1	3:30PM 5:00PM
Monday, July 20, 2026	AC bridges 2	3:30PM 5:00PM

Ashish SIR: Basic Electronics		
Date	**Topic**	**Timing**
Tuesday, July 21, 2026	Introduction to Basic Electronics	3:30PM 5:00PM
Wednesday, July 22, 2026	Basics of Semiconductor Materials Part-1	3:30PM 5:00PM
Thursday, July 23, 2026	Basics of Semiconductor Materials Part-2	3:30PM 5:00PM
Friday, July 24, 2026	Semiconductor Physics Part-1	3:30PM 5:00PM
Monday, July 27, 2026	Semiconductor Physics Part-2	3:30PM 5:00PM
Tuesday, July 28, 2026	PN Junction Diode Part-1	3:30PM 5:00PM
Wednesday, July 29, 2026	PN Junction Diode Part-2	3:30PM 5:00PM
Thursday, July 30, 2026	Zener Diode Part -1	3:30PM 5:00PM
Friday, July 31, 2026	Zener Diode Part -2	3:30PM 5:00PM

Thursday, July 30, 2026	Arithmetic Circuits	8:00AM - 9:00AM	Monday, August 3, 2026	Tunnel diode, LED	3:30PM 5:00PM
Friday, July 31, 2026	Multiplexers	8:00AM - 9:00AM	Tuesday, August 4, 2026	PhotoDiode, Shottcky Diode	3:30PM 5:00PM
Monday, August 3, 2026	Encoder & Decoders	8:00AM - 9:00AM	Wednesday, August 5, 2026	BJT Part-1	3:30PM 5:00PM
Tuesday, August 4, 2026	Sequential circuits	8:00AM - 9:00AM	Thursday, August 6, 2026	BJT Part-2	3:30PM 5:00PM
Wednesday, August 5, 2026	Sequential circuits	8:00AM - 9:00AM	Friday, August 7, 2026	BJT Part-3	3:30PM 5:00PM
Thursday, August 6, 2026	Data converters	8:00AM - 9:00AM	Monday, August 10, 2026	BJT Part-4	3:30PM 5:00PM
Friday, August 7, 2026	Data converters	8:00AM - 9:00AM	Tuesday, August 11, 2026	BJT Part-5	3:30PM 5:00PM
Monday, August 10, 2026	Data converters	8:00AM - 9:00AM	Wednesday, August 12, 2026	BJT Part-6	3:30PM 5:00PM
Ashish Sir : Microprocessor			Thursday, August 13, 2026	BJT Part-7	3:30PM 5:00PM
Date	**Topic**	**Timing**	Friday, August 14, 2026	FeedBack Amplifier	3:30PM 5:00PM
Tuesday, August 11, 2026	Architecture	8:00AM - 9:00AM	Monday, August 17, 2026	Power amplifier	3:30PM 5:00PM
Wednesday, August 12, 2026	All Instruction	8:00AM - 9:00AM	Tuesday, August 18, 2026	FET introduction and working	3:30PM 5:00PM
Thursday, August 13, 2026	Programming	8:00AM - 9:00AM	Wednesday, August 19, 2026	MCQs on FET	3:30PM 5:00PM
Friday, August 14, 2026	memory	8:00AM - 9:00AM	Thursday, August 20, 2026	MOSFET introduction and working	3:30PM 5:00PM
Ashish Sir : Electronic Devices Circuits (EDC)			Friday, August 21, 2026	Op-amp Part-1	3:30PM 5:00PM
Date	**Topic**	**Timing**	Monday, August 24, 2026	Op-amp Part-2	3:30PM 5:00PM
	EDC-1	Recording-1	Tuesday, August 25, 2026	Op-amp Part-3	3:30PM 5:00PM
	EDC-2	Recording-2	Wednesday, August 26, 2026	Number system Part-1	3:30PM 5:00PM
	EDC-3	Recording-3	Thursday, August 27, 2026	Number system Part-2	3:30PM 5:00PM
	EDC-4	Recording-4	Friday, August 28, 2026	Boolean algebra	3:30PM 5:00PM
	EDC-5	Recording-5	Monday, August 31, 2026	Logic Gates	3:30PM 5:00PM
	EDC-6	Recording-6	Tuesday, September 1, 2026	Basics of Power Electronics Part-1	3:30PM 5:00PM
	EDC-7	Recording-7	Wednesday, September 2, 2026	Basics of Power Electronics Part-2	3:30PM 5:00PM

	EDC-8	Recording-8	Thursday, September 3, 2026	SCR Part-1	3:30PM 5:00PM
Ashish SIR : UEE			Friday, September 4, 2026	SCR Part-2	3:30PM 5:00PM
			Monday, September 7, 2026	Types of Switches and their working Part-1	3:30PM 5:00PM
			Tuesday, September 8, 2026	Types of Switches and their working Part-2	3:30PM 5:00PM
Date	**Topic**	**Timing**	Wednesday, September 9, 2026	Types of Switches and their working Part-3	3:30PM 5:00PM
	Type of Motor and Characterstics	Recording-1	Thursday, September 10, 2026	Miscellnous	3:30PM 5:00PM
	Type of loads	Recording-2	**Ashish Sir : semiconductor memories**		
	System of electric traction and track electrification	Recording-3	**Date**	**Topic**	**Timing**
	Speed-time curves for different services	Recording-4		ROM	3:30PM 5:00PM
	Calculation of various quantities of Electrical Traction	Recording-5		SRAM	3:30PM 5:00PM
	Methods of Electrical Heating	Recording-6		DRAM	3:30PM 5:00PM
	Methods of Electrical Welding	Recording-7	**Ashish Sir : Analog Electronics**		
	Introduction and terms used in Illumination	Recording-8	**Date**	**Topic**	**Timing**
	Discharge Lamps, MV and SV Lamps	Recording-9		Analog Electronics-1	3:30PM 5:00PM
	Basic Principle of Light Control , Types and design of lightning and flood lighting	Recording-10		Analog Electronics-2	3:30PM 5:00PM
Ashish SIR : Estimation & Costing				Analog Electronics-3	3:30PM 5:00PM
				Analog Electronics-4	3:30PM 5:00PM
				Analog Electronics-5	3:30PM 5:00PM
Date	**Topic**	**Timing**		Analog Electronics-6	3:30PM 5:00PM
	Estimation & Costing - 1	Recording-1		Analog Electronics-7	3:30PM 5:00PM
	Estimation & Costing - 2	Recording-2		Analog Electronics-8	3:30PM 5:00PM
	Estimation & Costing - 3	Recording-3	**END OF SYLLABUS**		
	Estimation & Costing - 4	Recording-4			

	Estimation & Costing - 5	Recording-5			
	Estimation & Costing - 6	Recording-6			
	Estimation & Costing - 7	Recording-7			
	Estimation & Costing - 8	Recording-8			
	Estimation & Costing - 9	Recording-9			
	Estimation & Costing - 10	Recording-10			
Ashish Sir - Network Theory					
Date	**Topic**	**Timing**			
	Parallel Resonance	RECORDING			
	Performance Parameters of Series and Parallel Resonance	RECORDING			
	Average & RMS values of difference waveforms	RECORDING			
	Two Port Networks & Graph Theory	RECORDING			
	Graph Theory and Questions	RECORDING			
	Poly phase Network	RECORDING			
	Poly phase Network	RECORDING			
	Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor	RECORDING			
	Electric Potential	RECORDING			
	Ohms law, Concept of Resistance	RECORDING			
	Types Of Circuit Elements	RECORDING			
	Concept of Inductor	RECORDING			
	Concept of Capacitance & Laplace transforms	RECORDING			
	Some Functions & Their Laplace Transforms	RECORDING			
	Resistance in Series and Parallel & Star Delta conversion	RECORDING			

	Capacitance in Series and Parallel	RECORDING			
	KVL and KCL	RECORDING			
	Question Practice Session	RECORDING			
	Questions Practice Session	RECORDING			
	Network Theorem	RECORDING			
	(Superposition Theorem)	RECORDING			
	Thevenin's, Nortons Theorem	RECORDING			
	Maximum Power Transfer Theorem	RECORDING			
	Tellegen's, Milliman's & Reciprocity Theorem	RECORDING			
	AC Fundamentals	RECORDING			
	Series Resonance	RECORDING			
END OF SYLLABUS					