

Ashish SIR : Power System		
Date	Topic	Timing
Saturday, August 2, 2025	Hydroelectric Power Plant and Nuclear Power Plant	2:00PM - 3:29 PM
Monday, August 4, 2025	Diesel Power Plant and Conventional Power Generation	2:00PM - 3:29 PM
Tuesday, August 5, 2025	Important Terms and Factor	2:00PM - 3:29 PM
Wednesday, August 6, 2025	Load Curves and Selection of Generating Units	2:00PM - 3:29 PM
Thursday, August 7, 2025	Power system introduction , materials	2:00PM - 3:29 PM
Friday, August 8, 2025	Modelling and short line	2:00PM - 3:29 PM
Monday, August 11, 2025	Medium and long transmission line	2:00PM - 3:29 PM
Tuesday, August 12, 2025	Ferranti effect	2:00PM - 3:29 PM
Wednesday, August 13, 2025	Concept of star and delta load	2:00PM - 3:29 PM
Thursday, August 14, 2025	Concept of source and sink, high power factor	2:00PM - 3:29 PM
Friday, August 15, 2025	Relation between voltage and reactive power control	2:00PM - 3:29 PM
Monday, August 18, 2025	Shunt capacitor	2:00PM - 3:29 PM
Tuesday, August 19, 2025	Shunt reactor , series capacitor	2:00PM - 3:29 PM
Wednesday, August 20, 2025	SPM, OLTC and Booster transformer	2:00PM - 3:29 PM
Thursday, August 21, 2025	Calculation of R , L , C	2:00PM - 3:29 PM
Friday, August 22, 2025	Bundle conductor	2:00PM - 3:29 PM
Monday, August 25, 2025	Corona analysis	2:00PM - 3:29 PM
Tuesday, August 26, 2025	Insulators analysis	2:00PM - 3:29 PM
Wednesday, August 27, 2025	Sag and tension	2:00PM - 3:29 PM
Thursday, August 28, 2025	Underground power cable analysis	2:00PM - 3:29 PM
Friday, August 29, 2025	Per unit parameters	2:00PM - 3:29 PM
Monday, September 1, 2025	Balanced 3 phase circuit	2:00PM - 3:29 PM
Tuesday, September 2, 2025	Single line diagram	2:00PM - 3:29 PM
Wednesday, September 3, 2025	Fundamentals of fault , classification	2:00PM - 3:29 PM
Thursday, September 4, 2025	General Characteristics of fault, generator	2:00PM - 3:29 PM
Friday, September 5, 2025	Symmetrical fault	2:00PM - 3:29 PM
Monday, September 8, 2025	Symmetrical components	2:00PM - 3:29 PM
Tuesday, September 9, 2025	Unsymmetrical fault	2:00PM - 3:29 PM
Wednesday, September 10, 2025	Introduction to protection	2:00PM - 3:29 PM
Thursday, September 11, 2025	Relays-1	2:00PM - 3:29 PM
Friday, September 12, 2025	Relays-2	2:00PM - 3:29 PM
Monday, September 15, 2025	Circuit breaker-1	2:00PM - 3:29 PM
Tuesday, September 16, 2025	Circuit breaker-2	2:00PM - 3:29 PM
Wednesday, September 17, 2025	Complete power system generation-1	2:00PM - 3:29 PM
Thursday, September 18, 2025	Complete power system generation-2	2:00PM - 3:29 PM
Friday, September 19, 2025	Live doubt and miscellaneous-1	2:00PM - 3:29 PM
Saturday, September 20, 2025	Live doubt and miscellaneous-2	2:00PM - 3:29 PM
Sunday, September 21, 2025	Live doubt and miscellaneous-3	2:00PM - 3:29 PM
END OF SUBJECT		
Ashish SIR : Network Theory		
Date	Topic	Timing
Recorded	Classification of Element	Recorded
Recorded	Circuit Element (R,L,C)	Recorded
Recorded	Classification of Source	Recorded
Recorded	Ohm's Law and Kirchhoff's Law	Recorded
Recorded	Nodal Analysis and Source Transformation	Recorded
Recorded	Mesh Analysis	Recorded
Monday, August 4, 2025	Current and Voltage Division Rule, Star-Delta Conversion	1:00 PM - 2:00 PM
Tuesday, August 5, 2025	Equivalent Connection of Source and Tellegen's Theorem	1:00 PM - 2:00 PM
Wednesday, August 6, 2025	Thvenin's and Norton's Theorem	1:00 PM - 2:00 PM
Thursday, August 7, 2025	Maximum Power Transfer Theorem and Compensation Theorem	1:00 PM - 2:00 PM
Friday, August 8, 2025	Superposition Theorem and Substitution Theorem	1:00 PM - 2:00 PM
Monday, August 11, 2025	Milliman's Theorem and Reciprocity Theorem	1:00 PM - 2:00 PM
Tuesday, August 12, 2025	Alternating Voltage and Current	1:00 PM - 2:00 PM

Ashish SIR : Electrical Machine		
Date	Topic	Timing
Monday, September 1, 2025	Fundamentals of machine, Basics of transformer	1:00PM 2:00PM
Tuesday, September 2, 2025	Shell type and core type	1:00PM 2:00PM
Wednesday, September 3, 2025	Principle, ideal transformers, EMF equation	1:00PM 2:00PM
Thursday, September 4, 2025	Phasor diagram, Impedance transformer, rating of transformer	1:00PM 2:00PM
Friday, September 5, 2025	Equivalent circuit	1:00PM 2:00PM
Monday, September 8, 2025	OC test and SC test and Sumpner Test	1:00PM 2:00PM
Tuesday, September 9, 2025	Voltage regulation	1:00PM 2:00PM
Wednesday, September 10, 2025	Losses in transformer	1:00PM 2:00PM
Thursday, September 11, 2025	Efficiency of a Transformer	1:00PM 2:00PM
Friday, September 12, 2025	Parallel Operation of Single Phase Transformer	1:00PM 2:00PM
Monday, September 15, 2025	Auto transformer	1:00PM 2:00PM
Tuesday, September 16, 2025	3 phase transformer-1	1:00PM 2:00PM
Wednesday, September 17, 2025	3 phase transformer-2	1:00PM 2:00PM
Thursday, September 18, 2025	DC generator introduction	1:00PM 2:00PM
Friday, September 19, 2025	Construction of DC machine	1:00PM 2:00PM
Monday, September 22, 2025	Classification of windings and its analysis	1:00PM 2:00PM
Tuesday, September 23, 2025	EMF equation & Classification of generators	1:00PM 2:00PM
Wednesday, September 24, 2025	Armature Reaction	1:00PM 2:00PM
Thursday, September 25, 2025	Commutation & interpolar winding	1:00PM 2:00PM
Friday, September 26, 2025	DC Generator Characteristics	1:00PM 2:00PM
Monday, September 29, 2025	Voltage buildup condition and Critical Condition	1:00PM 2:00PM
Tuesday, September 30, 2025	Voltage Regulation and Parallel Operation of DC Generator	1:00PM 2:00PM
Wednesday, October 1, 2025	DC motor introduction	1:00PM 2:00PM
Thursday, October 2, 2025	Classification of DC motor	1:00PM 2:00PM
Friday, October 3, 2025	Significance of back emf and torque analysis	1:00PM 2:00PM
Monday, October 6, 2025	DC Motor Characteristic	1:00PM 2:00PM
Tuesday, October 7, 2025	DC Motor Losses and Efficiency	1:00PM 2:00PM
Wednesday, October 8, 2025	Speed control of motor	1:00PM 2:00PM
Thursday, October 9, 2025	DC Motor Starter	1:00PM 2:00PM
Friday, October 10, 2025	Breaking and testing	1:00PM 2:00PM
Monday, October 13, 2025	3 phase IM introduction and construction	1:00PM 2:00PM
Tuesday, October 14, 2025	Slip and rotor circuit parameters	1:00PM 2:00PM
Wednesday, October 15, 2025	Torque Slip characteristics	1:00PM 2:00PM
Thursday, October 16, 2025	Starting methods	1:00PM 2:00PM
Friday, October 17, 2025	Speed control of Induction Motor	1:00PM 2:00PM
Monday, October 20, 2025	Testing of Induction motor	1:00PM 2:00PM
Ashish SIR : Control system		
Date	Topic	Timing
Saturday, September 20, 2025	Basic of Control System	3:00 PM - 4:00 PM
Monday, September 22, 2025	Transfer Function Analysis of AC and DC servomotor	3:00 PM - 4:00 PM
Tuesday, September 23, 2025	Control system Representation	3:00 PM - 4:00 PM
Wednesday, September 24, 2025	Time Response Analysis Part-1	3:00 PM - 4:00 PM
Thursday, September 25, 2025	Time Response Analysis Part-2	3:00 PM - 4:00 PM
Friday, September 26, 2025	Routh Hurwitz Criterion, Root Locus	3:00 PM - 4:00 PM
Saturday, September 27, 2025	Bode Plotting using semi log graph paper	3:00 PM - 4:00 PM
Sunday, September 28, 2025	Compensator	3:00 PM - 4:00 PM
Monday, September 29, 2025	Controller	3:00 PM - 4:00 PM
Ashish SIR : Estimation & Coasting		
Date	Topic	Timing
Wednesday, October 1, 2025	Class -1	2:00 PM - 3:00 PM
Thursday, October 2, 2025	Class -2	2:00 PM - 3:00 PM
Friday, October 3, 2025	Class -3	2:00 PM - 3:00 PM

Wednesday, August 13, 2025	Why Sine Waveform? Generation of Alternating Voltage and Current	1:00 PM - 2:00 PM
Thursday, August 14, 2025	Important AC terminology	1:00 PM - 2:00 PM
Friday, August 15, 2025	Complex Waveform and Phasor Representation of Sinusoidal Quantities	1:00 PM - 2:00 PM
Monday, August 18, 2025	AC Circuit containing Pure R (or) L (or) C Only	1:00 PM - 2:00 PM
Tuesday, August 19, 2025	R-L Series A.C. Circuit	1:00 PM - 2:00 PM
Wednesday, August 20, 2025	R-C Series A.C Circuit	1:00 PM - 2:00 PM
Thursday, August 21, 2025	R-L-C Series A.C Circuit and Resonance in series AC Circuit	1:00 PM - 2:00 PM
Friday, August 22, 2025	Variation of Voltages Across R/L/C with Frequency	1:00 PM - 2:00 PM
Monday, August 25, 2025	Quality Factor, Bandwidth of series RLC Circuit	1:00 PM - 2:00 PM
Tuesday, August 26, 2025	Parallel RLC Circuit and Resonance in parallel AC Circuit	1:00 PM - 2:00 PM
Wednesday, August 27, 2025	Bandwidth, Cutoff Frequencies and Variation of Voltages Across R/L/C with Frequency of parallel resonance circuit	1:00 PM - 2:00 PM
Thursday, August 28, 2025	Methods of Solving Parallel AC Circuit	1:00 PM - 2:00 PM
Friday, August 29, 2025	Important Admittance in parallel AC Circuit	1:00 PM - 2:00 PM
Monday, September 1, 2025	Concept of Three phase Circuit - Star/Delta Connection and Power Relation	1:00 PM - 2:00 PM
Tuesday, September 2, 2025	Basic of Magnetism	1:00 PM - 2:00 PM
Wednesday, September 3, 2025	Concept of Electromagnetism and Force on Current Carrying Conductor	1:00 PM - 2:00 PM
Thursday, September 4, 2025	Important terms of Magnetic Circuit	1:00 PM - 2:00 PM
Friday, September 5, 2025	B-H Curve and Hysteresis Loss	1:00 PM - 2:00 PM
Monday, September 8, 2025	Basic of Electromagnetic Induction-Self and mutual induction	1:00 PM - 2:00 PM
Tuesday, September 9, 2025	Inductor in series and parallel with and without mutual inductance	1:00 PM - 2:00 PM
Wednesday, September 10, 2025	Cells and Batteries	1:00 PM - 2:00 PM
Thursday, September 11, 2025	Concept of Graph, Cut-set and Loops	1:00 PM - 2:00 PM
Friday, September 12, 2025	Concept of graph Theory	1:00 PM - 2:00 PM
Monday, September 15, 2025	Loop and Cut-set Analysis	1:00 PM - 2:00 PM
Tuesday, September 16, 2025	Impedance (Z) and Admittance (Y) Parameter	1:00 PM - 2:00 PM
Wednesday, September 17, 2025	Transmission (ABCD) , Hybrid (h), and Inverse Hybrid Parameter	1:00 PM - 2:00 PM
Thursday, September 18, 2025	Interconnection Two Port Networks	1:00 PM - 2:00 PM
Friday, September 19, 2025	Basic of Transient	1:00 PM - 2:00 PM
Monday, September 22, 2025	Source Free Circuits (RL and RC)	1:00 PM - 2:00 PM
Tuesday, September 23, 2025	Source Free Circuits (series and parallel RLC)	1:00 PM - 2:00 PM
Wednesday, September 24, 2025	Step Response of First Order Circuits (RL and RC)	1:00 PM - 2:00 PM
Thursday, September 25, 2025	Step Response of Second Order Circuits (Series and Parallel RLC)	1:00 PM - 2:00 PM

END OF SUBJECT

Monday, October 6, 2025	Class -4	2:00 PM - 3:00 PM
Tuesday, October 7, 2025	Class -5	2:00 PM - 3:00 PM
Ashish SIR : UEE		
Date	Topic	Timing
Wednesday, October 8, 2025	Type of Motor and Characteristics	1:30PM-2:30-PM
Thursday, October 9, 2025	Type of loads	1:30PM-2:30-PM
Friday, October 10, 2025	System of electric traction and track electrification	1:30PM-2:30-PM
Monday, October 13, 2025	Speed-time curves for different services	1:30PM-2:30-PM
Tuesday, October 14, 2025	Calculation of various quantities of Electrical Traction	1:30PM-2:30-PM
Wednesday, October 15, 2025	Methods of Electrical Heating	1:30PM-2:30-PM
Thursday, October 16, 2025	Methods of Electrical Welding	1:30PM-2:30-PM
Friday, October 17, 2025	Introduction and terms used in Illumination	1:30PM-2:30-PM
Saturday, October 18, 2025	Discharge Lamps, MV and SV Lamps	1:30PM-2:30-PM
Sunday, October 19, 2025	Basic Principle of Light Control , Types and design of lightning and flood lighting	1:30PM-2:30-PM

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