

STUDY PLAN

Engineering Mathematics				Ashish SIR : Control system		
Date	Topic	Timing				
Recorded	Engineering Mathematics - 1	Recorded				
Recorded	Engineering Mathematics - 2	Recorded		Date	Topic	Timing
Recorded	Engineering Mathematics - 3	Recorded		Thursday, September 11, 2025	Basic of Control System	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 4	Recorded		Friday, September 12, 2025	Transfer Function Analysis of AC and DC servomotor	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 5	Recorded		Monday, September 15, 2025	Control system Representation	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 6	Recorded		Tuesday, September 16, 2025	Time Response Analysis Part-1	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 7	Recorded		Wednesday, September 17, 2025	Time Response Analysis Part-2	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 8	Recorded		Thursday, September 18, 2025	Routh Hurwitz Criterion, Root Locus	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 9	Recorded		Friday, September 19, 2025	Bode Plotting using semi log graph paper	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 10	Recorded		Monday, September 22, 2025	Compensator	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 11	Recorded		Tuesday, September 23, 2025	Controller	5:00 PM - 6:00 PM
Recorded	Engineering Mathematics - 12	Recorded		Analog and Digital Electronics		
Recorded	Engineering Mathematics - 13	Recorded		Date	Topic	Timing
Recorded	Engineering Mathematics - 14	Recorded		Tuesday, October 21, 2025	Orientation	5:00PM - 6:00PM
Recorded	Engineering Mathematics - 15	Recorded		Wednesday, October 22, 2025	Introduction to Number systems	5:00PM - 6:00PM
Ashish SIR : Network Theory				Thursday, October 23, 2025	Addition in different base	5:00PM - 6:00PM
Date	Topic	Timing		Friday, October 24, 2025	Subtraction in Different Base	5:00PM - 6:00PM
Recorded	Classification of Element	Recorded		Monday, October 27, 2025	Complements	5:00PM - 6:00PM
Recorded	Circuit Element (R,L,C)	Recorded		Tuesday, October 28, 2025	Interconversions part-1	5:00PM - 6:00PM
Recorded	Classification of Source	Recorded		Wednesday, October 29, 2025	Interconversions part-2	5:00PM - 6:00PM
Recorded	Ohm's Law and Kirchoff's Law	Recorded		Thursday, October 30, 2025	Binary Codes,BCD	5:00PM - 6:00PM
Recorded	Nodal Analysis and Source Transformation	Recorded		Friday, October 31, 2025	Excess-3 and Gray Codes	5:00PM - 6:00PM
Recorded	Mesh Analysis	Recorded		Monday, November 3, 2025	Practice Questions	5:00PM - 6:00PM
Recorded	Current and Voltage Division Rule, Star-Delta Conversion	Recorded		Tuesday, November 4, 2025	Axioms and Operations	5:00PM - 6:00PM

Recorded	Equivalent Connection of Source and Tellegen's Theorem	Recorded	Wednesday, November 5, 2025	Laws of Boolean Algebra	5:00PM - 6:00PM
Recorded	Thvenin's and Norton's Theorem	Recorded	Thursday, November 6, 2025	SOP and POS representation part-1	5:00PM - 6:00PM
Recorded	Maximum Power Transfer Theorem and Compensation Theorem	Recorded	Friday, November 7, 2025	SOP and POS representation part-2	5:00PM - 6:00PM
Recorded	Superposition Theorem and Substitution Theorem	Recorded	Monday, November 10, 2025	Basic Gates	5:00PM - 6:00PM
Recorded	Milliman's Theorem and Reciprocity Theorem	Recorded	Tuesday, November 11, 2025	Special Gates	5:00PM - 6:00PM
Recorded	Alternating Voltage and Current	Recorded	Wednesday, November 12, 2025	Universal Gates	5:00PM - 6:00PM
Recorded	Why Sine Waveform? Generation of Alternating Voltage and Current	Recorded	Thursday, November 13, 2025	Circuits of Gates	5:00PM - 6:00PM
Recorded	Important AC terminology	Recorded	Friday, November 14, 2025	Adders	5:00PM - 6:00PM
Recorded	Complex Waveform and Phasor Representation of Sinusoidal Quantities	Recorded	Monday, November 17, 2025	Subtractors	5:00PM - 6:00PM
Recorded	AC Circuit containing Pure R (or) L (or) C Only	Recorded	Tuesday, November 18, 2025	Multiplexers part-1	5:00PM - 6:00PM
Recorded	R-L Series A.C. Circuit	Recorded	Wednesday, November 19, 2025	Multiplexers part-2	5:00PM - 6:00PM
Recorded	R-C Series A.C. Circuit	Recorded	Thursday, November 20, 2025	Analog Electronics -1	5:00PM - 6:00PM
Recorded	R-L-C Series A.C. Circuit and Resonance in series AC Circuit	Recorded	Friday, November 21, 2025	Analog Electronics -2	5:00PM - 6:00PM
Recorded	Variation of Voltages Across R/L/C with Frequency	Recorded	Monday, November 24, 2025	Analog Electronics -3	5:00PM - 6:00PM
Recorded	Quality Factor, Bandwidth of series RLC Circuit	Recorded	Tuesday, November 25, 2025	Analog Electronics -4	5:00PM - 6:00PM
Recorded	Parallel RLC Circuit and Resonance in parallel AC Circuit	Recorded	Wednesday, November 26, 2025	Analog Electronics -5	5:00PM - 6:00PM
Recorded	Bandwidth, Cutoff Frequencies and Variation of Voltages Across R/L/C with Frequency of parallel resonance circuit	Recorded	Thursday, November 27, 2025	Analog Electronics -6	5:00PM - 6:00PM
Recorded	Method of Solving Parallel AC Circuit	Recorded	Friday, November 28, 2025	Analog Electronics -7	5:00PM - 6:00PM
Recorded	Important Admittance in parallel AC Circuit	Recorded	Monday, December 1, 2025	Analog Electronics -8	5:00PM - 6:00PM
Recorded	Concept of Three phase Circuit - Star/Delta Connection and Power Relation	Recorded	Tuesday, December 2, 2025	Analog Electronics -9	5:00PM - 6:00PM
Recorded	Basic of Magnetism	Recorded	Wednesday, December 3, 2025	Analog Electronics -10	5:00PM - 6:00PM
Recorded	Concept of Electromagnetism and Force on Current Carrying Conductor	Recorded	Ashish sir Electronics Devices		
Recorded	Important terms of Magnetic Circuit	Recorded	Date	Topic	Timing
Recorded	B-H Curve and Hysteresis Loss	Recorded	Monday, September 29, 2025	Energy Band Diagram	2:00 PM- 3:30 PM
Recorded	Basic of Electromagnetic Induction-Self and mutual induction	Recorded	Tuesday, September 30, 2025	Types of Semiconductor	2:00 PM- 3:30 PM
Recorded	Inductor in series and parallel with and without mutual inductance	Recorded	Wednesday, October 1, 2025	Resistivity and Conductivity of Semiconductor	2:00 PM- 3:30 PM
Recorded	Cells and Batteries	Recorded	Thursday, October 2, 2025	Hall Effect	2:00 PM- 3:30 PM
Recorded	Concept of Graph, Cut-set and Loops	Recorded	Friday, October 3, 2025	Practice Questions	2:00 PM- 3:30 PM

Recorded	Concept of graph Theory	Recorded	Monday, October 6, 2025	PN Junction Diodes	2:00 PM- 3:30 PM
Recorded	Loop and Cut-set Analysis	Recorded	Tuesday, October 7, 2025	Characteristics of PN Junction Diodes	2:00 PM- 3:30 PM
Recorded	Impedance (Z) and Admittance (Y) Parameter	Recorded	Wednesday, October 8, 2025	Transistion and Diffusion Capacitance	2:00 PM- 3:30 PM
Recorded	Transmission (ABCD) , Hybrid (h), and Inverse Hybrid Parameter	Recorded	Thursday, October 9, 2025	Zener Diode	2:00 PM- 3:30 PM
Recorded	Interconnection Two Port Networks	Recorded	Friday, October 10, 2025	Avalanche and Zener Breakdown	2:00 PM- 3:30 PM
Recorded	Basic of Transient	Recorded	Monday, October 13, 2025	Rectifiers-1	2:00 PM- 3:30 PM
Recorded	Source Free Circuits (RL and RC)	Recorded	Tuesday, October 14, 2025	Rectifiers-2	2:00 PM- 3:30 PM
Recorded	Source Free Circuits (series and parallel RLC)	Recorded	Wednesday, October 15, 2025	Clippers	2:00 PM- 3:30 PM
Recorded	Step Response of First Order Circuits (RL and RC)	Recorded	Thursday, October 16, 2025	Clampers	2:00 PM- 3:30 PM
Recorded	Step Response of Second Order Circuits (Series and Parallel RLC)	Recorded	Friday, October 17, 2025	Practice Questions	2:00 PM- 3:30 PM
Ashish sir Signal and Systems			Monday, October 20, 2025	Transistors and Its working	2:00 PM- 3:30 PM
			Tuesday, October 21, 2025	Confguration and Characteristics of Transistors	2:00 PM- 3:30 PM
			Wednesday, October 22, 2025	Current Components in BJT	2:00 PM- 3:30 PM
Date	Topic	Timing	Thursday, October 23, 2025	Early Effect	2:00 PM- 3:30 PM
Recorded	Class -1	Recorded	Friday, October 24, 2025	Mode of Operation	2:00 PM- 3:30 PM
Recorded	Class -2	Recorded	Monday, October 27, 2025	Applications of Transistor	2:00 PM- 3:30 PM
Recorded	Class -3	Recorded	Tuesday, October 28, 2025	BJT amplifiers - 1	2:00 PM- 3:30 PM
Recorded	Class -4	Recorded	Wednesday, October 29, 2025	BJT amplifiers - 2	2:00 PM- 3:30 PM
Recorded	Class -5	Recorded	Thursday, October 30, 2025	Power amplifiers	2:00 PM- 3:30 PM
Communication Engineering			Friday, October 31, 2025	Sinusoidal Oscillator & Phase shift Oscillator	2:00 PM- 3:30 PM
Date	Topic	Timing	Monday, November 3, 2025	Wien Bridge Oscillator	2:00 PM- 3:30 PM
Recorded	Introduction	Recorded	Tuesday, November 4, 2025	Colpitts and Hartley Oscillators	2:00 PM- 3:30 PM
Recorded	Modulation requirements	Recorded	Wednesday, November 5, 2025	Multivibrator - 1	2:00 PM- 3:30 PM
Recorded	Amplitude modulation part-1	Recorded	Thursday, November 6, 2025	Multivibrator - 2	2:00 PM- 3:30 PM
Recorded	Amplitude modulation part-2	Recorded	Friday, November 7, 2025	Practice Questions	2:00 PM- 3:30 PM
Recorded	Amplitude modulation part-2	Recorded	Monday, November 10, 2025	Inverter and UPS	2:00 PM- 3:30 PM
Recorded	DSBSC Modulation and demodulation	Recorded	Tuesday, November 11, 2025	Working of Triode	2:00 PM- 3:30 PM
Recorded	SSB SC Modulation and demodulation	Recorded	Wednesday, November 12, 2025	Triode Circuits	2:00 PM- 3:30 PM
Recorded	VSB modulation and demodulation	Recorded	Ashish SIR : EMFT		
Recorded	Practice Questions	Recorded			
Recorded	Introduction	Recorded			
Recorded	Phase and frequency modulation parameters	Recorded			
			Date	Topic	Timing

Recorded	Modulation and demodulation techniques	Recorded	Wednesday, October 8, 2025	EMFT-1	5:00 PM - 6:00 PM
Recorded	Recievers part-1	Recorded	Thursday, October 9, 2025	EMFT-2	5:00 PM - 6:00 PM
Recorded	Recievers part-2	Recorded	Friday, October 10, 2025	EMFT-3	5:00 PM - 6:00 PM
Recorded	Recievers part-3	Recorded	Monday, October 13, 2025	EMFT-4	5:00 PM - 6:00 PM
Recorded	Block Diagram of PCM	Recorded	Tuesday, October 14, 2025	EMFT-5	5:00 PM - 6:00 PM
Recorded	Sampling criteria	Recorded	Wednesday, October 15, 2025	EMFT-6	5:00 PM - 6:00 PM
Recorded	Quantization	Recorded	Thursday, October 16, 2025	EMFT-7	5:00 PM - 6:00 PM
Recorded	Intersymbol interference	Recorded	Friday, October 17, 2025	EMFT-8	5:00 PM - 6:00 PM
Recorded	Frequency division multiplexing	Recorded	Monday, October 20, 2025	EMFT-9	5:00 PM - 6:00 PM
Recorded	Time division multiplexing	Recorded	Tuesday, October 21, 2025	EMFT-10	5:00 PM - 6:00 PM
Recorded	Wave Propagation - 1	Recorded	Ashish SIR : Electrical Machine		
Recorded	Wave Propagation - 2	Recorded	Date	Topic	Timing
Recorded	Equivalent Circuit of TL	Recorded	Monday, December 8, 2025	Fundamentals of machine, Basics of transformer	2:00PM 3:30PM
Recorded	Lossless and distortionless TL	Recorded	Tuesday, December 9, 2025	Shell type and core type	2:00PM 3:30PM
Recorded	Input impedance of TL	Recorded	Wednesday, December 10, 2025	Principle, ideal transformers, EMF equation	2:00PM 3:30PM
Recorded	Reflection coefficient and VSWR	Recorded	Thursday, December 11, 2025	Phasor diagram, Impedance transformer, rating of transformer	2:00PM 3:30PM
Recorded	Practice Questions	Recorded	Friday, December 12, 2025	Equivalent cricuit	2:00PM 3:30PM
Recorded	Smith Chart	Recorded	Monday, December 15, 2025	OC test and SC test and Sumpner Test	2:00PM 3:30PM
Recorded	Radar range equation	Recorded	Tuesday, December 16, 2025	Voltage regulation	2:00PM 3:30PM
Recorded	Satellite Communication - 1	Recorded	Wednesday, December 17, 2025	Losses in transformer	2:00PM 3:30PM
Recorded	Satellite Communication - 2	Recorded	Thursday, December 18, 2025	Efficiency of a Transformer	2:00PM 3:30PM
Recorded	Cellular Communication - 1	Recorded	Friday, December 19, 2025	Parallel Operation of Single Phase Transformer	2:00PM 3:30PM
Recorded	Cellular Communication - 2	Recorded	Monday, December 22, 2025	Auto transformer	2:00PM 3:30PM
Ashish Sir : Power Systems			Tuesday, December 23, 2025	3 phase transformer-1	2:00PM 3:30PM
			Wednesday, December 24, 2025	3 phase transformer-2	2:00PM 3:30PM
			Thursday, December 25, 2025	DC generator introduction	2:00PM 3:30PM
			Friday, December 26, 2025	Construction of DC machine	2:00PM 3:30PM
Recorded	Introduction to Power Systems	Recorded	Monday, December 29, 2025	Classification of windings and its analysis	2:00PM 3:30PM
Recorded	Generation (Thermal Power plant, Hydro Power Plant)	Recorded	Tuesday, December 30, 2025	EMF equation & Classification of generators	2:00PM 3:30PM
Recorded	Generation (Nuclear Power Plant), Renewable & Non renewable power plant	Recorded	Wednesday, December 31, 2025	Armature Reaction	2:00PM 3:30PM
Recorded	Economic Load factors (Load factor, capacity factor etc.)	Recorded	Thursday, January 1, 2026	Commutation & interpolar winding	2:00PM 3:30PM
Recorded	Per unit method Part-1	Recorded	Friday, January 2, 2026	DC Generator Characteristics	2:00PM 3:30PM

Recorded	Per unit method Part-2	Recorded	Monday, January 5, 2026	Voltage buildup condition and Critical Condition	2:00PM 3:30PM
Recorded	Question practice Session	Recorded	Tuesday, January 6, 2026	Voltage Regulation and Parallel Operation of DC Generator	2:00PM 3:30PM
Recorded	Power factor improvement Part-1	Recorded	Wednesday, January 7, 2026	DC motor introduction	2:00PM 3:30PM
Recorded	Power factor improvement Part-2	Recorded	Thursday, January 8, 2026	Classification of DC motor	2:00PM 3:30PM
Recorded	Power factor improvement Part-3	Recorded	Friday, January 9, 2026	Significance of back emf and torque analysis	2:00PM 3:30PM
Recorded	Power factor improvement Part - 4	Recorded	Monday, January 12, 2026	DC Motor Characterstic	2:00PM 3:30PM
Recorded	Question practice Session	Recorded	Tuesday, January 13, 2026	DC Motor Losses and Efficiency	2:00PM 3:30PM
Recorded	Transmission line parameters Part-1	Recorded	Wednesday, January 14, 2026	Speed control of motor	2:00PM 3:30PM
Recorded	Transmission line parameters Part-2	Recorded	Thursday, January 15, 2026	DC Motor Starter	2:00PM 3:30PM
Recorded	Transmission line parameters Part-3	Recorded	Friday, January 16, 2026	Breaking and testing	2:00PM 3:30PM
Recorded	Short circuit of fault analysis Part -1	Recorded	Monday, January 19, 2026	3 phase IM introduction and construction	2:00PM 3:30PM
Recorded	Short circuit of fault analysis Part -2	Recorded	Tuesday, January 20, 2026	Slip and rotor circuit parameters	2:00PM 3:30PM
Recorded	Question practice Session	Recorded	Wednesday, January 21, 2026	Torque Slip characteristics	2:00PM 3:30PM
Recorded	Short circuit of fault analysis Part -3	Recorded	Thursday, January 22, 2026	Starting methods	2:00PM 3:30PM
Recorded	Power system stability Part - 1	Recorded	Friday, January 23, 2026	Speed control of Induction Motor	2:00PM 3:30PM
Recorded	Power system stability Part - 2	Recorded	Monday, January 26, 2026	Testing of Indction motor	2:00PM 3:30PM
Recorded	Switchgear and protection Part-1	Recorded	Measurement and instrumentation		
Recorded	Switchgear and protection Part-2	Recorded	Date	Topic	Timing
Recorded	Switchgear and protection Part-3	Recorded	Monday, October 20, 2025	Methods of measurements, type of instruments	2:00PM 3:30PM
Recorded	Switchgear and protection Part-4	Recorded	Tuesday, October 21, 2025	Basic Characteristics of an Instrument & Error Analysis	2:00PM 3:30PM
Recorded	Switchgear and protection Part-5	Recorded	Wednesday, October 22, 2025	Types of Deflection, Damping and Controlling Torque	2:00PM 3:30PM
Recorded	Question practice Session	Recorded	Thursday, October 23, 2025	classification of analog instruments, mcq	2:00PM 3:30PM
Recorded	Cables, insulators Part -1	Recorded	Friday, October 24, 2025	Basic Galvanometer, PMMC & MI instruments	2:00PM 3:30PM
Recorded	Cables, insulators Part -2	Recorded	Monday, October 27, 2025	Electrodyanometer instruments	2:00PM 3:30PM
Recorded	Circuit Breakers Part -1	Recorded	Tuesday, October 28, 2025	Thermal instruments electrostatic instruments rectifier type	2:00PM 3:30PM
Recorded	Circuit Breakers Part -2	Recorded	Wednesday, October 29, 2025	Requirement of Range Extension and Basic DC Ammeter & Voltmeter	2:00PM 3:30PM
Recorded	Question practice Session	Recorded	Thursday, October 30, 2025	Loading Effect Due to Voltmeter Resistance	2:00PM 3:30PM
Power Electronics			Friday, October 31, 2025	Property , materials, measurments of low resistance	2:00PM 3:30PM
Date	Title	Time	Monday, November 3, 2025	Measurments of medium resistance	2:00PM 3:30PM
Recorded	Power Electronics -1	Recorded	Tuesday, November 4, 2025	Measurments of high resistance	2:00PM 3:30PM
Recorded	Power Electronics -2	Recorded	Wednesday, November 5, 2025	Measurments of inductance-1	2:00PM 3:30PM
Recorded	Power Electronics -3	Recorded	Thursday, November 6, 2025	Measurments of inductance-2	2:00PM 3:30PM

Recorded	Power Electronics -4	Recorded	Friday, November 7, 2025	Capacitance and special bridges	2:00PM 3:30PM
Recorded	Power Electronics -5	Recorded	Monday, November 10, 2025	DC and AC power,introduction to wattmeter	2:00PM 3:30PM
Recorded	Power Electronics -6	Recorded	Tuesday, November 11, 2025	Blondel theorem , two WM method, Single WM method	2:00PM 3:30PM
Recorded	Power Electronics -7	Recorded	Wednesday, November 12, 2025	Errors in Wattmeter	2:00PM 3:30PM
Recorded	Power Electronics -8	Recorded	Thursday, November 13, 2025	Induction Type Energy Meter	2:00PM 3:30PM
Recorded	Power Electronics -9	Recorded	Friday, November 14, 2025	Measurement of Frequency	2:00PM 3:30PM
Recorded	Power Electronics -10	Recorded	Monday, November 17, 2025	Measurement of Power Factor	2:00PM 3:30PM
Recorded	Power Electronics -11	Recorded	Tuesday, November 18, 2025	Basics and construction of CRO	2:00PM 3:30PM
Recorded	Power Electronics -12	Recorded	Wednesday, November 19, 2025	Measurement of phase and frequency	2:00PM 3:30PM
Recorded	Power Electronics -13	Recorded	Thursday, November 20, 2025	Operation modes of CRO and Special CRO	2:00PM 3:30PM
Recorded	Power Electronics -14	Recorded	Friday, November 21, 2025	AC Potentiometers	2:00PM 3:30PM
Recorded	Power Electronics -15	Recorded	Monday, November 24, 2025	Basic Potentiometer Circuit &Crompton's Potentiometer Circuit	2:00PM 3:30PM
Recorded	Power Electronics -16	Recorded	Tuesday, November 25, 2025	Strain gauges, LVDT, RTD, thermistor and pyrometer	2:00PM 3:30PM
Recorded	Power Electronics -17	Recorded	Wednesday, November 26, 2025	Construction , principle, application of Q- meter	2:00PM 3:30PM
Recorded	Power Electronics -18	Recorded	Thursday, November 27, 2025	CT & PT and Burden of Instrument Transformer	2:00PM 3:30PM
			Friday, November 28, 2025	basic of DVM and its Extension, Type of DVM	2:00PM 3:30PM
			Monday, December 1, 2025	basic of Electronic AC Voltmeter and its principle operation	2:00PM 3:30PM
			Tuesday, December 2, 2025	Type of Electronic AC Voltmeters	2:00PM 3:30PM
			Wednesday, December 3, 2025	Live doubt and miscellaneous-1	2:00PM 3:30PM
			Thursday, December 4, 2025	Live doubt and miscellaneous-2	2:00PM 3:30PM
			Friday, December 5, 2025	Live doubt and miscellaneous-3	2:00PM 3:30PM