# STUDY PLAN

| Ashish SIR : Electrical Machine | | |
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| **Date** | **Topic** | **Timing** |
| Wednesday, June 3, 2026 | Methods of improving commutations | 5:30PM-7.00PM |
| Thursday, June 4, 2026 | Characteristics of DC Generators | 5:30PM-7.00PM |
| Friday, June 5, 2026 | Basic Principle of Motor | 5:30PM-7.00PM |
| Monday, June 8, 2026 | Torque Equation of DC Motors | 5:30PM-7.00PM |
| Tuesday, June 9, 2026 | Speed control of DC Motors | 5:30PM-7.00PM |
| Wednesday, June 10, 2026 | Starting and Braking methods of DC Motors | 5:30PM-7.00PM |
| Thursday, June 11, 2026 | Efficiency and testing methods of DC Motors | 5:30PM-7.00PM |
| Friday, June 12, 2026 | Basics of Transformers | 5:30PM-7.00PM |
| Monday, June 15, 2026 | Construction of transformers & Emf Equation of transformers, | 5:30PM-7.00PM |
| Tuesday, June 16, 2026 | Equivalent circuit, O.C.& S.C. Tests | 5:30PM-7.00PM |
| Wednesday, June 17, 2026 | Voltage regulation of transformers,Losses and efficiency of transformers | 5:30PM-7.00PM |
| Thursday, June 18, 2026 | 3 Phase transformers,Parallel operation of transformers | 5:30PM-7.00PM |
| Friday, June 19, 2026 | Construction & Working of 3-Phase Induction Machines | 5:30PM-7.00PM |
| Monday, June 22, 2026 | Working & Equivalent Circuitof 3-Phase Induction Machines | 5:30PM-7.00PM |
| Tuesday, June 23, 2026 | Torque Equation of 3-Phase induction Machines | 5:30PM-7.00PM |
| Wednesday, June 24, 2026 | Torque slip characteristics of 3-phase induction Motors | 5:30PM-7.00PM |
| Thursday, June 25, 2026 | Starters & Braking methods of 3-Phase induction machines | 5:30PM-7.00PM |
| Friday, June 26, 2026 | Speed control of 3-Phase induction motors | 5:30PM-7.00PM |

| Ashish Sir - Power Electronics | | |
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| **Date** | **Topic** | **Timing** |
| Wednesday, June 3, 2026 | Power Electronics-1 | 3:30PM - 4:30PM |
| Thursday, June 4, 2026 | Power Electronics-2 | 3:30PM - 4:30PM |
| Friday, June 5, 2026 | Power Electronics-3 | 3:30PM - 4:30PM |
| Monday, June 8, 2026 | Power Electronics-4 | 3:30PM - 4:30PM |
| Tuesday, June 9, 2026 | Power Electronics-5 | 3:30PM - 4:30PM |
| Wednesday, June 10, 2026 | Power Electronics-6 | 3:30PM - 4:30PM |
| Thursday, June 11, 2026 | Power Electronics-7 | 3:30PM - 4:30PM |
| Friday, June 12, 2026 | Power Electronics-8 | 3:30PM - 4:30PM |
| Monday, June 15, 2026 | Power Electronics-9 | 3:30PM - 4:30PM |
| Tuesday, June 16, 2026 | Power Electronics-10 | 3:30PM - 4:30PM |
| Wednesday, June 17, 2026 | Power Electronics-11 | 3:30PM - 4:30PM |
| Thursday, June 18, 2026 | Power Electronics-12 | 3:30PM - 4:30PM |
| Friday, June 19, 2026 | Power Electronics-13 | 3:30PM - 4:30PM |
| Monday, June 22, 2026 | Power Electronics-14 | 3:30PM - 4:30PM |

| Ashish Sir : Power Systems | | |
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| **Date** | **Topic** | **Timing** |
| Tuesday, June 23, 2026 | Introduction to Power Systems | 3:30PM - 4:30PM |
| Wednesday, June 24, 2026 | Generation (Thermal Power plant, Hydro Power Plant) | 3:30PM - 4:30PM |

| Avinash Sir : Digital Electronics | | |
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| **Date** | **Topic** | **Timing** |
| Wednesday, June 3, 2026 | SOP and POS representation part-1 | 8.30 PM - 9.30 PM |
| Thursday, June 4, 2026 | SOP and POS representation part-2 | 8.30 PM - 9.30 PM |
| Friday, June 5, 2026 | Basic Gates | 8.30 PM - 9.30 PM |
| Monday, June 8, 2026 | Special Gates | 8.30 PM - 9.30 PM |
| Tuesday, June 9, 2026 | Universal Gates | 8.30 PM - 9.30 PM |
| Wednesday, June 10, 2026 | Circuits of Gates | 8.30 PM - 9.30 PM |
| Thursday, June 11, 2026 | Adders | 8.30 PM - 9.30 PM |
| Friday, June 12, 2026 | Subtractors | 8.30 PM - 9.30 PM |
| Monday, June 15, 2026 | Multiplexers part-1 | 8.30 PM - 9.30 PM |
| Tuesday, June 16, 2026 | Multiplexers part-2 | 8.30 PM - 9.30 PM |
| Wednesday, June 17, 2026 | Demultiplexers and Decoders | 8.30 PM - 9.30 PM |
| Thursday, June 18, 2026 | Practice Questions | 8.30 PM - 9.30 PM |
| Friday, June 19, 2026 | Introduction to flip flops | 8.30 PM - 9.30 PM |
| Monday, June 22, 2026 | Different types of Flip flops | 8.30 PM - 9.30 PM |
| Tuesday, June 23, 2026 | Counters Basics | 8.30 PM - 9.30 PM |
| Wednesday, June 24, 2026 | Counters Basics | 8.30 PM - 9.30 PM |
| Thursday, June 25, 2026 | Practice Questions | 8.30 PM - 9.30 PM |
| Friday, June 26, 2026 | A/D Convertors | 8.30 PM - 9.30 PM |

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| Monday, June 29, 2026 | Losses, efficiency, Cogging, Crawling of 3-Phase induction Motors | 5:30PM-7.00PM | Thursday, June 25, 2026 | Generation (Nuclear Power Plant), Renewable & Non renewable power plant | 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 | Economic Load factors (Load factor, capacity factor etc.) | 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 | Per unit method Part-1 | 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 | Per unit method Part-2 | 3:30PM - 4:30PM | | **Orientation** | Recording-1 |
| Friday, July 3, 2026 | Construction & Working of 3-phase Synchronous Machines | 5:30PM-7.00PM | Wednesday, July 1, 2026 | Question practice Session | 3:30PM - 4:30PM | | Introduction to Number systems | Recording-2 |
| 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 factor improvement Part-1 | 3:30PM - 4:30PM | | Addition in different base | Recording-3 |
| Tuesday, July 7, 2026 | Voltage Regulation of 3-Phase Synchronous generators | 5:30PM-7.00PM | Friday, July 3, 2026 | Power factor improvement Part-2 | 3:30PM - 4:30PM | | Subtraction in Different Base | Recording-4 |
| 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 factor improvement Part-3 | 3:30PM - 4:30PM | | Complements | Recording-5 |
| Thursday, July 9, 2026 | Parallel Operation of Synchronous Machines | 5:30PM-7.00PM | Tuesday, July 7, 2026 | Power factor improvement Part - 4 | 3:30PM - 4:30PM | | Interconversions part-1 | Recording-6 |
| Friday, July 10, 2026 | Working of 3-Phase synchornous motors | 5:30PM-7.00PM | Wednesday, July 8, 2026 | Question practice Session | 3:30PM - 4:30PM | | Interconversions part-2 | Recording-7 |
| Monday, July 13, 2026 | Starting methods of synchronous motors, Synchronizing coefficient | 5:30PM-7.00PM | Thursday, July 9, 2026 | Transmission line parameters Part-1 | 3:30PM - 4:30PM | | Binary Codes,BCD | Recording-8 |
| Tuesday, July 14, 2026 | Testings in Synchronous Machines | 5:30PM-7.00PM | Friday, July 10, 2026 | Transmission line parameters Part-2 | 3:30PM - 4:30PM | | Excess-3 and Gray Codes | Recording-9 |
| | Introduction to Electrical Machines | Recording-1 | Monday, July 13, 2026 | Transmission line parameters Part-3 | 3:30PM - 4:30PM | | Practice Questions | Recording-10 |
| | Basic Concepts of Magnetic Materials | Recording-2 | Tuesday, July 14, 2026 | Short circuit of fault analysis Part -1 | 3:30PM - 4:30PM | | Axioms and Operations | Recording-11 |
| | Basic concepts of Rotating Machines | Recording-3 | Wednesday, July 15, 2026 | Short circuit of fault analysis Part -2 | 3:30PM - 4:30PM | | Laws of Boolean Algebra | Recording-12 |
| | Working of DC Generators | Recording-4 | Thursday, July 16, 2026 | Question practice Session | 3:30PM - 4:30PM | **Avinash Sir : Signal and system** | | |
| | Constrution of DC Machines | Recording-5 | Friday, July 17, 2026 | Short circuit of fault analysis Part -3 | 3:30PM - 4:30PM | **Date** | **Topic** | **Timing** |
| | Commutator & Types of Windings | Recording-6 | Monday, July 20, 2026 | Power system stability Part - 1 | 3:30PM - 4:30PM | Thursday, July 2, 2026 | Signal operation-1 | 8.30 PM - 9.30 PM |
| | Emf Equation of DC Generators | Recording-7 | Tuesday, July 21, 2026 | Power system stability Part - 2 | 3:30PM - 4:30PM | Friday, July 3, 2026 | Signal operation-2 | 8.30 PM - 9.30 PM |
| | Type of DC Generators | Recording-8 | Wednesday, July 22, 2026 | Switchgear and protection Part-1 | 3:30PM - 4:30PM | Monday, July 6, 2026 | Signal operation-3 | 8.30 PM - 9.30 PM |
| | Questions on DC Generators | Recording-9 | Thursday, July 23, 2026 | Switchgear and protection Part-2 | 3:30PM - 4:30PM | Tuesday, July 7, 2026 | syestem-1 | 8.30 PM - 9.30 PM |

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| | Armature reaction of DC Generators-1 | Recording-10 | Friday, July 24, 2026 | Switchgear and protection Part-3 | 3:30PM - 4:30PM | Wednesday, July 8, 2026 | syestem-2 | 8.30 PM - 9.30 PM |
| | Armature reaction of DC Generators-2 | Recording-11 | Monday, July 27, 2026 | Switchgear and protection Part-4 | 3:30PM - 4:30PM | Thursday, July 9, 2026 | syestem-3 | 8.30 PM - 9.30 PM |
| | Commutation in DC Machines | Recording-12 | Tuesday, July 28, 2026 | Switchgear and protection Part-5 | 3:30PM - 4:30PM | Friday, July 10, 2026 | Fourier series | 8.30 PM - 9.30 PM |
| **Ashish Sir : Control system** | | | Wednesday, July 29, 2026 | Question practice Session | 3:30PM - 4:30PM | Monday, July 13, 2026 | Fourier transform representations-1 | 8.30 PM - 9.30 PM |
| **Date** | **Topic** | **Timing** | Thursday, July 30, 2026 | Cables, insulators Part -1 | 3:30PM - 4:30PM | Tuesday, July 14, 2026 | Fourier transform representations-2 | 8.30 PM - 9.30 PM |
| Recordings will be added on 03rd June | Introduction | Recording-1 | Friday, July 31, 2026 | Cables, insulators Part -2 | 3:30PM - 4:30PM | Wednesday, July 15, 2026 | Discrete Fourier transform-1 | 8.30 PM - 9.30 PM |
| | Basics of Control Systems | Recording-2 | Monday, August 3, 2026 | Circuit Breakers Part -1 | 3:30PM - 4:30PM | Thursday, July 16, 2026 | Discrete Fourier transform-2 | 8.30 PM - 9.30 PM |
| | Concept of Transfer Function | Recording-3 | Tuesday, August 4, 2026 | Circuit Breakers Part -2 | 3:30PM - 4:30PM | Friday, July 17, 2026 | Discrete Fourier transform-3 | 8.30 PM - 9.30 PM |
| | Mechanical System | Recording-4 | Wednesday, August 5, 2026 | Question practice Session | 3:30PM - 4:30PM | Monday, July 20, 2026 | Discrete Fourier transform-4 | 8.30 PM - 9.30 PM |
| | Block Diagram Reduction Technique & SFG | Recording-5 | **Ashish Sir : Analog Electronics** | | | Tuesday, July 21, 2026 | LTI Systems-1 | 8.30 PM - 9.30 PM |
| | Block Diagram Reduction Technique & SFG | Recording-6 | **Date** | **Topic** | **Timing** | Wednesday, July 22, 2026 | LTI Systems-2 | 8.30 PM - 9.30 PM |
| | Block Diagram Reduction Technique & SFG | Recording-7 | | Analog Electronics-1 | Recording-1 | Thursday, July 23, 2026 | LTI Systems-3 | 8.30 PM - 9.30 PM |
| | Time Domain Analysis | Recording-8 | | Analog Electronics-2 | Recording-2 | | | |
| | Time Domain Analysis | Recording-9 | | Analog Electronics-3 | Recording-3 | | | |
| | Time Domain Analysis | Recording-10 | Recordings will be added on 03rd June | Analog Electronics-4 | Recording-4 | | | |
| | Time Domain Analysis | Recording-11 | | Analog Electronics-5 | Recording-5 | | | |
| | Stability | Recording-12 | | Analog Electronics-6 | Recording-6 | | | |
| | Stability | Recording-13 | | Analog Electronics-7 | Recording-7 | | | |
| | Root Locus Technique | Recording-14 | | Analog Electronics-8 | Recording-8 | | | |
| | Root Locus Technique | Recording-15 | **Ashish Sir - Network Theory** | | | | | |
| | Root Locus Technique | Recording-16 | **Date** | **Topic** | **Timing** | | | |
| | Root Locus Technique | Recording-17 | | Parallel Resonance | Recording-1 | | | |

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| | Frequency Domain Analysis | Recording-18 | | Recordings will be added on 03rd June | Performance Parameters of Series and Parallel Resonance | Recording-2 | | |
| | Frequency Domain Analysis | Recording-19 | | | Average & RMS values of difference waveforms | Recording-3 | | |
| | Frequency Domain Analysis | Recording-20 | | | Two Port Networks & Graph Theory | Recording-4 | | |
| | Polar Plots | Recording-21 | | | Graph Theory and Questions | Recording-5 | | |
| | Polar Plots | Recording-22 | | | Poly phase Network | Recording-6 | | |
| | Polar Plots | Recording-23 | | | Poly phase Network | Recording-7 | | |
| | Nyquist Plot | Recording-24 | | | Power Triangle, impedance Triangle, charging and discharging of Inductor and Capacitor | Recording-8 | | |
| | Nyquist Plot | Recording-25 | | | Electric Potential | Recording-9 | | |
| | Nyquist Plot | Recording-26 | | | Ohms law, Concept of Resistance | Recording-10 | | |
| | Bode Plot | Recording-27 | | | Types Of Circuit Elements | Recording-11 | | |
| | Bode Plot | Recording-28 | | | Concept of Inductor | Recording-12 | | |
| | Bode Plot | Recording-29 | | | Concept of Capacitance & Laplace transforms | Recording-13 | | |
| | Bode Plot | Recording-30 | | | Some Functions & Their Laplace Transforms | Recording-14 | | |
| | Bode Plot | Recording-31 | | | Resistance in Series and Parallel & Star Delta conversion | Recording-15 | | |
| | State Space Analysis | Recording-32 | | | Capacitance in Series and Parallel | Recording-16 | | |
| | State Space Analysis | Recording-33 | | | KVL and KCL | Recording-17 | | |
| **Ashish Sir : Measurement and instrumentation** | | | | | Question Practice Session | Recording-18 | | |
| **Date** | **Topic** | **Timing** | | | Questions Practice Session | Recording-19 | | |
| Recordings will be added on 03rd June | Introduction to Electrical & Electronics Engineering Measurements | Recording-1 | | | Network Theorem | Recording-20 | | |
| | Error Analysis Part-1 | Recording-2 | | | (Superposition Theorem) | Recording-21 | | |
| | Error Analysis Part-2 | Recording-3 | | | Thevenin's, Nortons Theorem | Recording-22 | | |

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| | Types of Dampings and torques | Recording-4 | | | Maximum Power Transfer Theorem | Recording-23 | | | |
| | PMMC | Recording-5 | | | Tellegen's, Milliman's & Reciprocity Theorem | Recording-24 | | | |
| | Rectifier type instruments | Recording-6 | | | AC Fundamentals | Recording-25 | | | |
| | Moving iron type instruments -1 | Recording-7 | | | Series Resonance | Recording-26 | | | |
| | 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 | | | | | | | |