Study Plan

Rakesh Sir : IC Engine		
Date	**Title**	**Timing**
Friday, November 20, 2026	Basic Introduction & Terminology	3PM - 4PM
Monday, November 23, 2026	Air Standard Cycle + Otto Cycle Intro	3PM - 4PM
Tuesday, November 24, 2026	Otto Cycle Detailed	3PM - 4PM
Wednesday, November 25, 2026	Diesel Cycle	3PM - 4PM
Thursday, November 26, 2026	Dual Cycle + Numericals	3PM - 4PM
Friday, November 27, 2026	Efficiency Comparison of Cycles-1	3PM - 4PM
Monday, November 30, 2026	Efficiency Comparison of Cycles-2	3PM - 4PM
Tuesday, December 1, 2026	Performance Analysis-1	3PM - 4PM
Wednesday, December 2, 2026	Performance Analysis-1	3PM - 4PM
Thursday, December 3, 2026	SI Engine Combustion-1	3PM - 4PM
Friday, December 4, 2026	SI Engine Combustion-2	3PM - 4PM
Monday, December 7, 2026	CI Engine Combustion-1	3PM - 4PM
Tuesday, December 8, 2026	CI Engine Combustion-2	3PM - 4PM

Rahul Sir : Thermodynamics		
Date	**Title**	**Timing**
Thursday, December 3, 2026	Basics Concept-1	4PM-5PM
Friday, December 4, 2026	Basics Concept-2	4PM-5PM
Monday, December 7, 2026	Heat and work-1	4PM-5PM
Tuesday, December 8, 2026	Heat and work-2	4PM-5PM
Wednesday, December 9, 2026		4PM-5PM
Thursday, December 10, 2026	First law of thermodynamics-1	4PM-5PM
Friday, December 11, 2026	First law of thermodynamics-2	4PM-5PM
Monday, December 14, 2026	First law of thermodynamics-3	4PM-5PM
Tuesday, December 15, 2026	First law of thermodynamics-4	4PM-5PM
Wednesday, December 16, 2026	First law of thermodynamics-5	4PM-5PM
Thursday, December 17, 2026	Second law of thermodynamics-1	4PM-5PM
Friday, December 18, 2026	Second law of thermodynamics-2	4PM-5PM
Monday, December 21, 2026	Entropy part-1	4PM-5PM

Rahul Mishra Sir : Fluid Mechanics		
Date	**Title**	**Timing**
Tuesday, January 5, 2027	Introduction	7PM - 8PM
Wednesday, January 6, 2027	Fluid Properties - Part 1	7PM - 8PM
Thursday, January 7, 2027	Fluid Properties - Part 2	7PM - 8PM
Friday, January 8, 2027	Newton's Law of Viscosity	7PM - 8PM
Monday, January 11, 2027	Fluid Classification	7PM - 8PM
Tuesday, January 12, 2027	MCQ Practice (Basics)	7PM - 8PM
Wednesday, January 13, 2027	Surface Tension & Capillarity - 1	7PM - 8PM
Thursday, January 14, 2027	Surface Tension & Capillarity - 2	7PM - 8PM
Friday, January 15, 2027	Pressure Measurement - Basics	7PM - 8PM
Monday, January 18, 2027	Pressure Laws	7PM - 8PM
Tuesday, January 19, 2027	Pressure Measuring Devices	7PM - 8PM
Wednesday, January 20, 2027	Pressure MCQ	7PM - 8PM
Thursday, January 21, 2027	Buoyancy & Floatation - 1	7PM - 8PM

Wednesday, December 9, 2026	Carburetor	3PM - 4PM
Thursday, December 10, 2026	Fuel Quality & A/F Ratio	3PM - 4PM
Friday, December 11, 2026	Octane & Cetane Number	3PM - 4PM
Monday, December 14, 2026	Cooling System	3PM - 4PM
Tuesday, December 15, 2026	Lubrication System	3PM - 4PM
Rakesh Sir : RAC		
Date	**Title**	**Timing**
Wednesday, December 16, 2026	Basic Introduction	3PM - 4PM
Thursday, December 17, 2026	VCRS Intro + Ideal Refrigeration Cycle	3PM - 4PM
Friday, December 18, 2026	VCRS Cycle Analysis (COP etc.)	3PM - 4PM
Monday, December 21, 2026	VCRS Performance Analysis	3PM - 4PM
Tuesday, December 22, 2026	Reverse Brayton (Bell-Coleman) Cycle	3PM - 4PM
Wednesday, December 23, 2026	Cascade Refrigeration System	3PM - 4PM
Thursday, December 24, 2026	Refrigerants Definition	3PM - 4PM
Monday, December 28, 2026	Properties of Refrigerants	3PM - 4PM
Tuesday, December 29, 2026	Psychrometry Introduction	3PM - 4PM
Wednesday, December 30, 2026	Psychrometric Chart Processes	3PM - 4PM

Tuesday, December 22, 2026	Entropy part-2	4PM-5PM
Wednesday, December 23, 2026	Entropy part-3	4PM-5PM
Thursday, December 24, 2026	Entropy part-4	4PM-5PM
Monday, December 28, 2026	Properties of pure substance part 1	4PM-5PM
Tuesday, December 29, 2026	Properties of pure substance part 2	4PM-5PM
Wednesday, December 30, 2026	Properties of pure substance part 3	4PM-5PM
Monday, January 4, 2027	Properties of pure substance part 4	4PM-5PM
Rahul Sir : Power Plant Engineering		
Date	**Title**	**Timing**
Tuesday, January 5, 2027	Boiler Classification, Fittings & Accessories part 1	4PM-5PM
Wednesday, January 6, 2027	Rankine Cycle part 1	4PM-5PM
Thursday, January 7, 2027	Rankine Cycle part 2	4PM-5PM
Friday, January 8, 2027	Brayton Cycle part 1	4PM-5PM
Monday, January 11, 2027	Brayton Cycle part 2	4PM-5PM
Tuesday, January 12, 2027	Air Compressors & their cycles part 1	4PM-5PM
Wednesday, January 13, 2027	Air Compressors & their cycles part 2	4PM-5PM
Thursday, January 14, 2027	Air Compressors & their cycles part 3	4PM-5PM

Friday, January 22, 2027	Buoyancy & Floatation - 2	7PM - 8PM
Monday, January 25, 2027	Buoyancy & Floatation - 3	7PM - 8PM
Wednesday, January 27, 2027	Hydrostatic Forces - Plane Surface	7PM - 8PM
Thursday, January 28, 2027	Hydrostatic Forces - Curved Surface	7PM - 8PM
Friday, January 29, 2027	Kinematics Intro + Types + Continuity	7PM - 8PM
Monday, February 1, 2027	Velocity Potential & Stream Function - 1	7PM - 8PM
Tuesday, February 2, 2027	Velocity Potential & Stream Function - 2	7PM - 8PM
Wednesday, February 3, 2027	Velocity Potential & Stream Function - 3	7PM - 8PM
Thursday, February 4, 2027	Fluid Dynamics Intro + Bernoulli	7PM - 8PM
Friday, February 5, 2027	Bernoulli Applications	7PM - 8PM
Monday, February 8, 2027	Orifice Meter & Pitot Tube	7PM - 8PM
Tuesday, February 9, 2027	Laminar Flow - 1	7PM - 8PM
Wednesday, February 10, 2027	Laminar Flow - 2	7PM - 8PM
Thursday, February 11, 2027	Laminar Flow - 3	7PM - 8PM
Friday, February 12, 2027	Laminar vs Turbulent - 1	7PM - 8PM
Monday, February 15, 2027	Laminar vs Turbulent - 2	7PM - 8PM
Tuesday, February 16, 2027	Laminar vs Turbulent - 3	7PM - 8PM

Thursday, December 31, 2026	Psychrometric Chart Numericals	3PM - 4PM
Monday, January 4, 2027	Refrigeration Devices (Working & Material)	3PM - 4PM
Rakesh Sir : Theory of Machines		
Date	**Title**	**Timing**
Tuesday, January 5, 2027	Basic Introduction	3PM - 4PM
Wednesday, January 6, 2027	Kinematic Pair & Classification-1	3PM - 4PM
Thursday, January 7, 2027	Kinematic Pair & Classification-2	3PM - 4PM
Friday, January 8, 2027	Degree of Freedom (DOF)	3PM - 4PM
Monday, January 11, 2027	DOF Numericals-1	3PM - 4PM
Tuesday, January 12, 2027	DOF Numericals-2	3PM - 4PM
Wednesday, January 13, 2027	Grashof's Law	3PM - 4PM
Thursday, January 14, 2027	Inversions (Four Bar & Slider)-1	3PM - 4PM
Friday, January 15, 2027	Inversions (Four Bar & Slider)-2	3PM - 4PM
Monday, January 18, 2027	Instantaneous Center	3PM - 4PM
Tuesday, January 19, 2027	Flywheel-1	3PM - 4PM
Wednesday, January 20, 2027	Flywheel-2	3PM - 4PM
Thursday, January 21, 2027	Governor Intro	3PM - 4PM

Friday, January 15, 2027	Air Compressors & their cycles part 4	4PM-5PM
Monday, January 18, 2027	Steam Turbines & Nozzles part 1	4PM-5PM
Tuesday, January 19, 2027	Steam Turbines & Nozzles part 2	4PM-5PM
Wednesday, January 20, 2027	Steam Turbines & Nozzles part 3	4PM-5PM
Thursday, January 21, 2027	Steam Turbines & Nozzles part 4	4PM-5PM
Friday, January 22, 2027	Steam Turbines & Nozzles part 5	4PM-5PM
Monday, January 25, 2027	Steam Turbines & Nozzles part 6	4PM-5PM
Rahul Sir : Engineering Mechanics		
Date	**Title**	**Timing**
Wednesday, January 27, 2027	Basic of forces-1	4PM-5PM
Thursday, January 28, 2027	Basic of forces-2	4PM-5PM
Friday, January 29, 2027	Basic of forces-3	4PM-5PM
Monday, February 1, 2027	Basic of forces-4	4PM-5PM
Tuesday, February 2, 2027	Basic of forces-5	4PM-5PM
Wednesday, February 3, 2027	Types of beam-1	4PM-5PM
Thursday, February 4, 2027	Types of beam-2	4PM-5PM
Friday, February 5, 2027	Concepts of friction-1	4PM-5PM

Wednesday, February 17, 2027	Boundary Layer Theory	7PM - 8PM
Thursday, February 18, 2027	Vortex Flow (Free & Forced)	7PM - 8PM
Friday, February 19, 2027	Flow Through Pipes - 1	7PM - 8PM
Monday, February 22, 2027	Flow Through Pipes - 2	7PM - 8PM
Tuesday, February 23, 2027	Flow Through Pipes - 3	7PM - 8PM
Wednesday, February 24, 2027	Dimensional Analysis & Modelling	7PM - 8PM
Thursday, February 25, 2027	OCF - 1	7PM - 8PM
Friday, February 26, 2027	OCF - 2	7PM - 8PM
Monday, March 1, 2027	OCF - 3	7PM - 8PM
Tuesday, March 2, 2027	Impact of Jets - 1	7PM - 8PM
Wednesday, March 3, 2027	Impact of Jets - 2	7PM - 8PM
Thursday, March 4, 2027	Hydraulic Turbine Intro & Classification - 1	7PM - 8PM
Friday, March 5, 2027	Hydraulic Turbine Intro & Classification - 2	7PM - 8PM
Monday, March 8, 2027	Types of Turbines - 1	7PM - 8PM
Tuesday, March 9, 2027	Types of Turbines - 2	7PM - 8PM
Wednesday, March 10, 2027	Modeling & Similitude MCQ	7PM - 8PM
Thursday, March 11, 2027	Pumps - 1	7PM - 8PM

Friday, January 22, 2027	Governor Classification	3PM - 4PM
Monday, January 25, 2027	Governor Performance	3PM - 4PM
Wednesday, January 27, 2027	Gears Intro & Classification-1	3PM - 4PM
Thursday, January 28, 2027	Gears Intro & Classification-2	3PM - 4PM
Friday, January 29, 2027	Gear Terminology	3PM - 4PM
Monday, February 1, 2027	Gear Analysis	3PM - 4PM
Tuesday, February 2, 2027	Gear Interference	3PM - 4PM
Wednesday, February 3, 2027	Balancing-1	3PM - 4PM
Thursday, February 4, 2027	Balancing-2	3PM - 4PM
Friday, February 5, 2027	Vibrations-1	3PM - 4PM
Monday, February 8, 2027	Vibrations-2	3PM - 4PM
Tuesday, February 9, 2027	Vibrations-3	3PM - 4PM
Wednesday, February 10, 2027	Cam & Follower-1	3PM - 4PM
Thursday, February 11, 2027	Cam & Follower-2	3PM - 4PM
Rakesh Sir : Machine Design		
Date	**Title**	**Timing**
Friday, February 12, 2027	Basic Introduction	3PM - 4PM
Monday, February 15, 2027	Design against Static Loading	3PM - 4PM

Monday, February 8, 2027	Concepts of friction -2	4PM-5PM
Tuesday, February 9, 2027	Concepts of friction -3	4PM-5PM
Wednesday, February 10, 2027	Moment of Inertia-1	4PM-5PM
Thursday, February 11, 2027	Moment of Inertia-2	4PM-5PM
Friday, February 12, 2027	Moment of Inertia-3	4PM-5PM
Monday, February 15, 2027	Conservation of momentum and energy-1	4PM-5PM
Tuesday, February 16, 2027	Conservation of momentum and energy-2	4PM-5PM

Friday, March 12, 2027	Pumps - 2	7PM - 8PM
Monday, March 15, 2027	Pumps - 3	7PM - 8PM

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Tuesday, February 16, 2027	Design against Fluctuating Loading-1	3PM - 4PM
Wednesday, February 17, 2027	Design against Fluctuating Loading-2	3PM - 4PM
Thursday, February 18, 2027	Bolted Joints-1	3PM - 4PM
Friday, February 19, 2027	Bolted Joints-2	3PM - 4PM
Monday, February 22, 2027	Riveted Joints-1	3PM - 4PM
Tuesday, February 23, 2027	Riveted Joints-2	3PM - 4PM
Wednesday, February 24, 2027	Belt Drive-1	3PM - 4PM
Thursday, February 25, 2027	Belt Drive-2	3PM - 4PM
Friday, February 26, 2027	Belt Drive-3	3PM - 4PM
Monday, March 1, 2027	Clutches-1	3PM - 4PM
Tuesday, March 2, 2027	Clutches-2	3PM - 4PM
Wednesday, March 3, 2027	Brakes-1	3PM - 4PM
Thursday, March 4, 2027	Brakes-2	3PM - 4PM
Friday, March 5, 2027	Bearings-1	3PM - 4PM
Monday, March 8, 2027	Bearings-2	3PM - 4PM
Tuesday, March 9, 2027	Bearings-3	3PM - 4PM
Wednesday, March 10, 2027	Design of Gears	3PM - 4PM
Thursday, March 11, 2027	Miscellaneous-1	3PM - 4PM

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