STUDY PLAN

Rahul sir : IC Engine			Rahul sir : Strength of Materials			Rahul Sir : Production Engineering		
Date	Title	Timing	Date	Title	Timing	Date	Title	Timing
Monday, May 18, 2026	Basic Introduction & Terminology	3 PM - 4.00 PM	Monday, May 18, 2026	Types of Loads & Classification-1	7 PM - 8.30 PM	Monday, May 18, 2026	Welding-1	4 PM - 5.00 PM
Tuesday, May 19, 2026	Air Standard Cycle + Otto Cycle Intro	3 PM - 4.00 PM	Tuesday, May 19, 2026	Types of Loads & Classification-2	7 PM - 8.30 PM	Tuesday, May 19, 2026	Welding-2	4 PM - 5.00 PM
Wednesday, May 20, 2026	Otto Cycle Detailed	3 PM - 4.00 PM	Wednesday, May 20, 2026	Stress & Strain (Basics)-1	7 PM - 8.30 PM	Wednesday, May 20, 2026	Welding-3	4 PM - 5.00 PM
Thursday, May 21, 2026	Diesel Cycle	3 PM - 4.00 PM	Thursday, May 21, 2026	Stress & Strain (Basics)-2	7 PM - 8.30 PM	Thursday, May 21, 2026	Welding-4	4 PM - 5.00 PM
Friday, May 22, 2026	Dual Cycle + Numericals	3 PM - 4.00 PM	Friday, May 22, 2026	Stress & Strain (Basics)-3	7 PM - 8.30 PM	Friday, May 22, 2026	Welding-5	4 PM - 5.00 PM
Monday, May 25, 2026	Efficiency Comparison of Cycles-1	3 PM - 4.00 PM	Monday, May 25, 2026	Stress-Strain Curve	7 PM - 8.30 PM	Monday, May 25, 2026	Casting-1	4 PM - 5.00 PM
Tuesday, May 26, 2026	Efficiency Comparison of Cycles-2	3 PM - 4.00 PM	Tuesday, May 26, 2026	Failure under Different Loading	7 PM - 8.30 PM	Tuesday, May 26, 2026	Casting-2	4 PM - 5.00 PM
Wednesday, May 27, 2026	Performance Analysis-1	3 PM - 4.00 PM	Wednesday, May 27, 2026	Elastic Constants	7 PM - 8.30 PM	Wednesday, May 27, 2026	Casting-3	4 PM - 5.00 PM
Thursday, May 28, 2026	Performance Analysis-1	3 PM - 4.00 PM	Thursday, May 28, 2026	Deformation (Series & Parallel)-1	7 PM - 8.30 PM	Thursday, May 28, 2026	Casting-4	4 PM - 5.00 PM
Friday, May 29, 2026	SI Engine Combustion-1	3 PM - 4.00 PM	Friday, May 29, 2026	Deformation (Series & Parallel)-2	7 PM - 8.30 PM	Friday, May 29, 2026	Casting-5	4 PM - 5.00 PM
Monday, June 1, 2026	SI Engine Combustion-2	3 PM - 4.00 PM	Monday, June 1, 2026	Strain Energy due to Self Weight	7 PM - 8.30 PM	Monday, June 1, 2026	Metal Forming-1	4 PM - 5.00 PM
Tuesday, June 2, 2026	CI Engine Combustion-1	3 PM - 4.00 PM	Tuesday, June 2, 2026	Strain Energy-1	7 PM - 8.30 PM	Tuesday, June 2, 2026	Metal Forming-2	4 PM - 5.00 PM
Wednesday, June 3, 2026	CI Engine Combustion-2	3 PM - 4.00 PM	Wednesday, June 3, 2026	Strain Energy-2	7 PM - 8.30 PM	Wednesday, June 3, 2026	Metal Forming-3	4 PM - 5.00 PM
Tuesday, May 26, 2026	Carburetor	3 PM - 4.00 PM	Thursday, June 4, 2026	Moment of Inertia-1	7 PM - 8.30 PM	Thursday, June 4, 2026	Metal Forming-4	4 PM - 5.00 PM
Wednesday, May 27, 2026	Fuel Quality & A/F Ratio	3 PM - 4.00 PM	Friday, June 5, 2026	Moment of Inertia-2	7 PM - 8.30 PM	Friday, June 5, 2026	Metal Forming-5	4 PM - 5.00 PM
Thursday, May 28, 2026	Octane & Cetane Number	3 PM - 4.00 PM	Monday, June 8, 2026	Thermal Stress-1	7 PM - 8.30 PM	Monday, June 8, 2026	Metrology-1	4 PM - 5.00 PM
Friday, May 29, 2026	Cooling System	3 PM - 4.00 PM	Tuesday, June 9, 2026	Thermal Stress-2	7 PM - 8.30 PM	Tuesday, June 9, 2026	Metrology-2	4 PM - 5.00 PM
Monday, June 1, 2026	Lubrication System	3 PM - 4.00 PM				Wednesday, June 10, 2026	Concept of MMT-1	4 PM - 5.00 PM

Rahul Sir : RAC		
Date	**Title**	**Timing**
Tuesday, June 2, 2026	Basic Introduction	3 PM - 4.00 PM
Wednesday, June 3, 2026	VCRS Intro + Ideal Refrigeration Cycle	3 PM - 4.00 PM
Thursday, June 4, 2026	VCRS Cycle Analysis (COP etc.)	3 PM - 4.00 PM
Friday, June 5, 2026	VCRS Performance Analysis	3 PM - 4.00 PM
Monday, June 8, 2026	Reverse Brayton (Bell-Coleman) Cycle	3 PM - 4.00 PM
Tuesday, June 9, 2026	Cascade Refrigeration System	3 PM - 4.00 PM
Wednesday, June 10, 2026	Refrigerants Definition	3 PM - 4.00 PM
Thursday, June 11, 2026	Properties of Refrigerants	3 PM - 4.00 PM
Friday, June 12, 2026	Psychrometry Introduction	3 PM - 4.00 PM
Monday, June 15, 2026	Psychrometric Chart Processes	3 PM - 4.00 PM
Tuesday, June 16, 2026	Psychrometric Chart Numericals	3 PM - 4.00 PM
Wednesday, June 17, 2026	Refrigeration Devices (Working & Material)	3 PM - 4.00 PM
Rahul Sir : Material Science		
Date	**Title**	**Timing**
Friday, July 31, 2026	Introduction-1	3 PM - 4.00 PM
Monday, August 3, 2026	Crystalline Materials-1	3 PM - 4.00 PM
Tuesday, August 4, 2026	Crystalline Materials-2	3 PM - 4.00 PM
Wednesday, August 5, 2026	Steel-1	3 PM - 4.00 PM
Thursday, August 6, 2026	Heat treatment of steel-1	3 PM - 4.00 PM
Friday, August 7, 2026	Cast Iron	3 PM - 4.00 PM
Wednesday, June 10, 2026	Beams (CRM)-1	7 PM - 8.30 PM
Thursday, June 11, 2026	Beams (CRM)-2	7 PM - 8.30 PM
Friday, June 12, 2026	Beams (CRM)-3	7 PM - 8.30 PM
Monday, June 15, 2026	Bending in Beam-1	7 PM - 8.30 PM
Tuesday, June 16, 2026	Bending in Beam-2	7 PM - 8.30 PM
Wednesday, June 17, 2026	Bending in Beam-3	7 PM - 8.30 PM
Thursday, June 18, 2026	Torsion in Shaft-1	7 PM - 8.30 PM
Friday, June 19, 2026	Torsion in Shaft-2	7 PM - 8.30 PM
Monday, June 22, 2026	Combined Stresses-1	7 PM - 8.30 PM
Tuesday, June 23, 2026	Combined Stresses-2	7 PM - 8.30 PM
Wednesday, June 24, 2026	Combined Stresses-3	7 PM - 8.30 PM
Thursday, June 25, 2026	Mohr Circle-1	7 PM - 8.30 PM
Friday, June 26, 2026	Mohr Circle-2	7 PM - 8.30 PM
Monday, June 29, 2026	SFD & BMD-1	7 PM - 8.30 PM
Tuesday, June 30, 2026	SFD & BMD-2	7 PM - 8.30 PM
Wednesday, July 1, 2026	SFD & BMD-3	7 PM - 8.30 PM
Thursday, July 2, 2026	SFD & BMD-4	7 PM - 8.30 PM
Friday, July 3, 2026	Slope & Deflection-1	7 PM - 8.30 PM
Monday, July 6, 2026	Slope & Deflection-2	7 PM - 8.30 PM
Tuesday, July 7, 2026	Columns & Struts	7 PM - 8.30 PM
Wednesday, July 8, 2026	Thin & Thick Cylinder	7 PM - 8.30 PM
Thursday, July 9, 2026	Theory of Failure-1	7 PM - 8.30 PM
Thursday, June 11, 2026	Concept of MMT-2	4 PM - 5.00 PM
Friday, June 12, 2026	Concept of MMT-3	4 PM - 5.00 PM
Monday, June 15, 2026	Concept of MMT-4	4 PM - 5.00 PM
Tuesday, June 16, 2026	Concept of MMT-5	4 PM - 5.00 PM
Wednesday, June 17, 2026	Unconventional Machining-1	4 PM - 5.00 PM
Thursday, June 18, 2026	Unconventional Machining-2	4 PM - 5.00 PM
Friday, June 19, 2026	Jigs & Fixtures	4 PM - 5.00 PM
Monday, June 22, 2026	Metal Cutting-1	4 PM - 5.00 PM
Tuesday, June 23, 2026	Metal Cutting-2	4 PM - 5.00 PM
Wednesday, June 24, 2026	Metal Cutting-3	4 PM - 5.00 PM
Thursday, June 25, 2026	Concept of MMT-1	4 PM - 5.00 PM
Friday, June 26, 2026	Concept of MMT-2	4 PM - 5.00 PM

Rahul Sir : Thermodynamics		
Date	**Title**	**Timing**
Recordings will be added by 18th May	Basic Introduction (System, Surroundings, Properties)	Recording-1
	Properties & Types of System	Recording-2
	First Law of Thermodynamics - Part 1	Recording-3
	First Law of Thermodynamics - Part 2	Recording-4
	First Law of Thermodynamics - Part 3	Recording-5
	First Law MCQ	Recording-6
	Steady Flow Energy Equation (SFEE) - Part 1	Recording-7
	Steady Flow Energy Equation (SFEE) - Part 2	Recording-8
	Second Law Introduction	Recording-9
	Kelvin Planck & Clausius Statements	Recording-10
	Heat Engine / Refrigerator / Heat Pump (COP, Efficiency)	Recording-11
	Numericals (Second Law)	Recording-12
	Clausius Inequality & Entropy Intro	Recording-13
	Entropy Derivation - Part 1	Recording-14
	Entropy Derivation - Part 2	Recording-15
	Revision - Thermodynamics	Recording-16
	Revision - Thermodynamics	Recording-17
	Properties of Pure Substance - Part 1	Recording-18
	Properties of Pure Substance - Part 2	Recording-19
Rahul Sir : Power Plant Engineering		
Date	**Title**	**Timing**

Friday, July 10, 2026	Theory of Failure-2	7 PM - 8.30 PM
Monday, July 13, 2026	Springs	7 PM - 8.30 PM
Tuesday, July 14, 2026	Basic Introduction	7 PM - 8.30 PM

Rahul Sir : Fluid mechanics		
Date	**Title**	**Timing**
Recordings will be added by 18th May	Introduction	Recording-1
	Fluid Properties - Part 1	Recording-2
	Fluid Properties - Part 2	Recording-3
	Newton's Law of Viscosity	Recording-4
	Fluid Classification	Recording-5
	MCQ Practice (Basics)	Recording-6
	Surface Tension & Capillarity - 1	Recording-7
	Surface Tension & Capillarity - 2	Recording-8
	Pressure Measurement - Basics	Recording-9
	Pressure Laws	Recording-10
	Pressure Measuring Devices	Recording-11
	Pressure MCQ	Recording-12
	Buoyancy & Floatation - 1	Recording-13
	Buoyancy & Floatation - 2	Recording-14
	Buoyancy & Floatation - 3	Recording-15
	Hydrostatic Forces - Plane Surface	Recording-16

Recordings will be added by 18th May	Basic Introduction	Recording-1			Hydrostatic Forces - Curved Surface	Recording-17			
	Types of Coal & Fuels	Recording-2			Kinematics Intro + Types + Continuity	Recording-18			
	Coal Detailed Study	Recording-3			Velocity Potential & Stream Function - 1	Recording-19			
	Steam Power Plant (Thermal) - Analysis-1	Recording-4			Velocity Potential & Stream Function - 2	Recording-20			
	Steam Power Plant (Thermal) - Analysis-2	Recording-5			Velocity Potential & Stream Function - 3	Recording-21			
	Steam Power Plant (Thermal) - Analysis-3	Recording-6			Fluid Dynamics Intro + Bernoulli	Recording-22			
	Rankine Cycle-1	Recording-7			Bernoulli Applications	Recording-23			
	Rankine Cycle-2	Recording-8			Orifice Meter & Pitot Tube	Recording-24			
	Boilers-1	Recording-9			Laminar Flow - 1	Recording-25			
	Boilers-2	Recording-10			Laminar Flow - 2	Recording-26			
	Boilers-3	Recording-11			Laminar Flow - 3	Recording-27			
	Steam Turbine	Recording-12			Laminar vs Turbulent - 1	Recording-28			
	Nozzle & Compressor-1	Recording-13			Laminar vs Turbulent - 2	Recording-29			
	Nozzle & Compressor-2	Recording-14			Laminar vs Turbulent - 3	Recording-30			
	Nozzle & Compressor-3	Recording-15			Boundary Layer Theory	Recording-31			
	Miscellaneous Numericals-1	Recording-16			Vortex Flow (Free & Forced)	Recording-32			
	Miscellaneous Numericals-2	Recording-17			Flow Through Pipes - 1	Recording-33			
Rahul Sir : Theory of Machines					Flow Through Pipes - 2	Recording-34			
Date	**Title**	**Timing**			Flow Through Pipes - 3	Recording-35			
Recordings will be added by 18th May	Basic Introduction	Recording-1			Dimensional Analysis & Modelling	Recording-36			
	Kinematic Pair & Classification-1	Recording-2			OCF - 1	Recording-37			
	Kinematic Pair & Classification-2	Recording-3			OCF - 2	Recording-38			

	Degree of Freedom (DOF)	Recording-4			OCF - 3	Recording-39			
	DOF Numericals-1	Recording-5			Impact of Jets - 1	Recording-40			
	DOF Numericals-2	Recording-6			Impact of Jets - 2	Recording-41			
	Grashof's Law	Recording-7			Hydraulic Turbine Intro & Classification - 1	Recording-42			
	Inversions (Four Bar & Slider)-1	Recording-8			Hydraulic Turbine Intro & Classification - 2	Recording-43			
	Inversions (Four Bar & Slider)-2	Recording-9			Types of Turbines - 1	Recording-44			
	Instantaneous Center	Recording-10			Types of Turbines - 2	Recording-45			
	Flywheel-1	Recording-11			Modeling & Similitude MCQ	Recording-46			
	Flywheel-2	Recording-12			Pumps - 1	Recording-47			
	Governor Intro	Recording-13			Pumps - 2	Recording-48			
	Governor Classification	Recording-14			Pumps - 3	Recording-49			
	Governor Performance	Recording-15		**Rahul Sir : Engineering Mechanics**					
	Gears Intro & Classification-1	Recording-16		**Date**	**Title**	**Timing**			
	Gears Intro & Classification-2	Recording-17			Basic of forces-1	Recording-1			
	Gear Terminology	Recording-18			Basic of forces-2	Recording-2			
	Gear Analysis	Recording-19			Basic of forces-3	Recording-3			
	Gear Interference	Recording-20			Basic of forces-4	Recording-4			
	Balancing-1	Recording-21		Recordings will be added by 18th May	Basic of forces-5	Recording-5			
	Balancing-2	Recording-22			Types of beam-1	Recording-6			
	Vibrations-1	Recording-23			Types of beam-2	Recording-7			
	Vibrations-2	Recording-24			Concepts of friction-1	Recording-8			
	Vibrations-3	Recording-25			Concepts of friction -2	Recording-9			
	Cam & Follower-1	Recording-26			Concepts of friction -3	Recording-10			

	Cam & Follower-2	Recording-27		Moment of Inertia-1	Recording-11			
Rahul Sir : Heat & Mass Transfer				Moment of Inertia-2	Recording-12			
Date	**Title**	**Timing**		Moment of Inertia-3	Recording-13			
Recordings will be added by 18th May	Basic Introduction (Heat Transfer)	Recording-1		Conservation of momentum and energy-1	Recording-14			
	Conduction-1	Recording-2		Conservation of momentum and energy-2	Recording-15			
	Conduction-2	Recording-3	**Rahul Sir : Industrial Engineering**					
	Conduction-3	Recording-4						
	Fins	Recording-5						
	Convection-1	Recording-6	**Date**	**Title**	**Timing**			
	Convection-2	Recording-7	Recordings will be added by 18th May	Introduction & BEA-1	Recording-1			
	Convection-3	Recording-8		Introduction & BEA-2	Recording-2			
	Radiation-1	Recording-9		Inventory-1	Recording-3			
	Radiation-2	Recording-10		Inventory-2	Recording-4			
	Radiation-3	Recording-11		Inventory-3	Recording-5			
				Inventory-4	Recording-6			
				Sequencing-1	Recording-7			
				Sequencing-2	Recording-8			
				Sequencing-3	Recording-9			
				PERT & CPM-1	Recording-10			
				PERT & CPM-2	Recording-11			
				PERT & CPM-3	Recording-12			
				PERT & CPM-4	Recording-13			
				PERT & CPM-5	Recording-14			

				PERT & CPM-6	Recording-15				
				Forecasting-1	Recording-16				
				Forecasting-2	Recording-17				
				Forecasting-3	Recording-18				
				Forecasting-4	Recording-19				
				Queing Theory-1	Recording-20				
				Queing Theory-2	Recording-21				
				Linear programming-1	Recording-22				
				Linear programming-2	Recording-23				
				Linear programming-3	Recording-24				
				Transportation-1	Recording-25				
				Transportation-2	Recording-26				
				Assignment-1	Recording-27				
				Assignment-2	Recording-28				
				MRP-1	Recording-29				
				MRP-2	Recording-30				
			Rahul Sir : Machine Design						
			Date	**Title**	**Timing**				
			Recordings will be added by 18th May	Basic Introduction	Recording-1				
				Design against Static Loading	Recording-2				
				Design against Fluctuating Loading-1	Recording-3				
				Design against Fluctuating Loading-2	Recording-4				

				Bolted Joints-1	Recording-5				
				Bolted Joints-2	Recording-6				
				Riveted Joints-1	Recording-7				
				Riveted Joints-2	Recording-8				
				Belt Drive-1	Recording-9				
				Belt Drive-2	Recording-10				
				Belt Drive-3	Recording-11				
				Clutches-1	Recording-12				
				Clutches-2	Recording-13				
				Brakes-1	Recording-14				
				Brakes-2	Recording-15				
				Bearings-1	Recording-16				
				Bearings-2	Recording-17				
				Bearings-3	Recording-18				
				Design of Gears	Recording-19				
				Miscellaneous-1	Recording-20				
				Miscellaneous-2	Recording-21				
				Rahul Sir : Hydraulic Machines					
				Date	**Title**	**Timing**			
				Recordings will be added by 18th May	Impact of jet	Recording-1			
					Turbine basic , classification	Recording-2			
					Pelton wheel , francis , kaplan turbine	Recording-3			

				Pump-1	Recording-4				
				Pump-2	Recording-5				
				Live doubt and miscellaneous-1	Recording-6				
				Live doubt and miscellaneous-2	Recording-7				
				Live doubt and miscellaneous-3	Recording-8				