STUDY PLAN

Rahul Sir Engineering Mechanics

Date	Chapter	Title	Timing
Thursday, October 16, 2025	Basic of forces	Basic of forces-1	6 PM - 6:30 PM
Friday, October 17, 2025		Basic of forces-2	6 PM - 6:30 PM
Thursday, October 23, 2025		Basic of forces-3	6 PM - 6:30 PM
Friday, October 24, 2025		Basic of forces-4	6 PM - 6:30 PM
Monday, October 27, 2025		Basic of forces-5	6 PM - 6:30 PM
Tuesday, October 28, 2025	Types of beam	Types of beam-1	6 PM - 6:30 PM
Wednesday, October 29, 2025		Types of beam-2	6 PM - 6:30 PM
Thursday, October 30, 2025	Concepts of friction	Concepts of friction-1	6 PM - 6:30 PM
Friday, October 31, 2025		Concepts of friction -2	6 PM - 6:30 PM
Monday, November 3, 2025		Concepts of friction -3	6 PM - 6:30 PM
Tuesday, November 4, 2025	Moment of Inertia	Moment of Inertia-1	6 PM - 6:30 PM
Wednesday, November 5, 2025		Moment of Inertia-2	6 PM - 6:30 PM
Thursday, November 6, 2025		Moment of Inertia-3	6 PM - 6:30 PM
Friday, November 7, 2025	Conservation of momentum and energy	Conservation of momentum and energy-1	6 PM - 6:30 PM
Monday, November 10, 2025		Conservation of momentum and energy-2	6 PM - 6:30 PM

Rahul Sir Fluid Mechanics

Date	Topic	Title	Timing
Monday, October 27, 2025	Orientation	Orientation	7 PM - 8 PM
Tuesday, October 28, 2025	FLUID PROPERTY	Basic introduction	7 PM - 8 PM
Wednesday, October 29, 2025		Bulk modulus , Density	7 PM - 8 PM
Thursday, October 30, 2025		Specific gravity and Specific Weight	7 PM - 8 PM
Friday, October 31, 2025		Viscosity	7 PM - 8 PM

Vikas Sir Thermodynamics

Date	Chapter	Title	Timing
Recorded	Thermodynamics system and processes	Basics Concept-1	8:00PM-9:30PM
Recorded		Basics Concept-2	8:00PM-9:30PM
Recorded		Basics Concept-3	8:00PM-9:30PM
Recorded		Basics Concept-4	8:00PM-9:30PM
Recorded	Heat and Work	Heat and work-1	8:00PM-9:30PM
Recorded		Heat and work-2	8:00PM-9:30PM
Recorded		Heat and work-3	8:00PM-9:30PM
Thursday, October 16, 2025		Heat and work-4	8:00PM-9:30PM
Friday, October 17, 2025	First law of thermodynamics	First law of thermodynamics-1	8:00PM-9:30PM
Thursday, October 23, 2025		First law of thermodynamics-2	8:00PM-9:30PM
Friday, October 24, 2025		First law of thermodynamics-3	8:00PM-9:30PM
Monday, October 27, 2025		First law of thermodynamics-4	8:00PM-9:30PM
Tuesday, October 28, 2025		First law of thermodynamics-5	8:00PM-9:30PM
Wednesday, October 29, 2025	Second law of thermodynamics and Entropy	Second law of thermodynamics-1	8:00PM-9:30PM
Thursday, October 30, 2025		Second law of thermodynamics-2	8:00PM-9:30PM
Friday, October 31, 2025		Entropy part-1	8:00PM-9:30PM
Monday, November 3, 2025		Entropy part-2	8:00PM-9:30PM
Tuesday, November 4, 2025		Entropy part-3	8:00PM-9:30PM
Wednesday, November 5, 2025		Entropy part-4	8:00PM-9:30PM
Thursday, November 6, 2025	Properties of pure substance	Properties of pure substance part 1	8:00PM-9:30PM
Friday, November 7, 2025		Properties of pure substance part 2	8:00PM-9:30PM
Monday, November 10, 2025		Properties of pure substance part 3	8:00PM-9:30PM

Dheeraj Sir Theory of Machines

Date	Chapter	Title	Timing
Monday, December 8, 2025	Mechanism and machines	Simple Mechanism-1	8:00PM-8:59PM
Tuesday, December 9, 2025		Simple Mechanism-2	8:00PM-8:59PM
Wednesday, December 10, 2025		Simple Mechanism-3	8:00PM-8:59PM
Thursday, December 11, 2025		Simple Mechanism-4	8:00PM-8:59PM
Friday, December 12, 2025		Simple Mechanism-5	8:00PM-8:59PM
Monday, December 15, 2025		Simple Mechanism-6	8:00PM-8:59PM
Tuesday, December 16, 2025	Velocity and acceleration analysis	Motion Analysis-1	8:00PM-8:59PM
Wednesday, December 17, 2025		Motion Analysis-2	8:00PM-8:59PM
Thursday, December 18, 2025	Gear	Gear-1	8:00PM-8:59PM
Friday, December 19, 2025		Gear-2	8:00PM-8:59PM
Monday, December 22, 2025		Gear-3	8:00PM-8:59PM
Tuesday, December 23, 2025		Gear-4	8:00PM-8:59PM
Wednesday, December 24, 2025		Gear-5	8:00PM-8:59PM
Thursday, December 25, 2025		Gear-6	8:00PM-8:59PM
Friday, December 26, 2025	Gear Train	Gear Train-1	8:00PM-8:59PM
Monday, December 29, 2025		Gear Train-2	8:00PM-8:59PM
Tuesday, December 30, 2025	Governor	Governor-1	8:00PM-8:59PM
Wednesday, December 31, 2025		Governor-2	8:00PM-8:59PM
Thursday, January 1, 2026		Governor-3	8:00PM-8:59PM
Friday, January 2, 2026		Governor-4	8:00PM-8:59PM
Monday, January 5, 2026		Governor-5	8:00PM-8:59PM

Monday, November 3, 2025		Newton law of viscosity	7 PM - 8 PM		Tuesday, November 11, 2025		Properties of pure substance part 4	8:00PM-9:30PM		Tuesday, January 6, 2026	**Flywheel**	Flywheel-1	8:00PM-8:59PM
Tuesday, November 4, 2025		Fluid classification	7 PM - 8 PM							Wednesday, January 7, 2026		Flywheel-2	8:00PM-8:59PM
Wednesday, November 5, 2025	**SURFACE TENSION**	Surface tension	7 PM - 8 PM							Thursday, January 8, 2026	**Cam & Follower**	Cam & Follower-1	8:00PM-8:59PM
Thursday, November 6, 2025	**CAPILLARY**	Capillary	7 PM - 8 PM							Friday, January 9, 2026		Cam & Follower-2	8:00PM-8:59PM
Friday, November 7, 2025	**PRESSURE**	Basic , Types of pressure	7 PM - 8 PM							Monday, January 12, 2026	**Balancing**	All About Balancing	8:00PM-8:59PM
Monday, November 10, 2025		Pascal and hydrostatic law	7 PM - 8 PM							Tuesday, January 13, 2026	**Vibration**	Vibration-1	8:00PM-8:59PM
Tuesday, November 11, 2025		Pressure measuring device -1	7 PM - 8 PM							Wednesday, January 14, 2026		Vibration-2	8:00PM-8:59PM
Wednesday, November 12, 2025		Pressure measuring device -2	7 PM - 8 PM										
Thursday, November 13, 2025	**BUOYANCY AND FLOATATION**	Basic concepts , principle of floatation	7 PM - 8 PM										
Friday, November 14, 2025		Stability condition of submerged body	7 PM - 8 PM										
Monday, November 17, 2025		Concept of metacentre	7 PM - 8 PM										
Tuesday, November 18, 2025		Stability condition of floating body	7 PM - 8 PM										
Wednesday, November 19, 2025	**HYDROSTATICS FORCE**	Hydro-static forces on plane	7 PM - 8 PM										
Thursday, November 20, 2025		Hydro-static forces on curved surface	7 PM - 8 PM										
Friday, November 21, 2025	**FLUID KINEMATICS**	Basic and types of flow	7 PM - 8 PM										
Monday, November 24, 2025		Stream, path and streak line	7 PM - 8 PM										
Wednesday, August 27, 2025		Continuity equation	7 PM - 8 PM										
Wednesday, November 5, 2025		Velocity and stream function	7 PM - 8 PM										
Thursday, November 6, 2025	**FLUID DYNAMICS**	Eulers , B.E equation	7 PM - 8 PM										
Friday, November 7, 2025		Application of B.E Equation	7 PM - 8 PM										
Monday, November 10, 2025		Basic introduction , shear stress and velcoity profile	7 PM - 8 PM										
Tuesday, November 11, 2025		Pressure drop , friction factor	7 PM - 8 PM										
Wednesday, November 12, 2025	**LAMINAR & TURBULENT FLOW**	Turbulent flow	7 PM - 8 PM										
Thursday, November 13, 2025	**FLOW THROUGH PIPE**	Major , minor losses	7 PM - 8 PM										
Friday, November 14, 2025		Concept of equivalent pipe and maximum efficiency	7 PM - 8 PM										
Monday, November 17, 2025	**BOUNDARY LAYER THEORY**	Boundry layer thoery	7 PM - 8 PM										
Tuesday, November 18, 2025	**VORTEX MOTION**	Free Vortex motion	7 PM - 8 PM										

Wednesday, November 19, 2025		Forced Vortex motion	7 PM - 8 PM											
Thursday, November 20, 2025	**MODELLING AND SIMLITUDE**	Similarity , dimensionless number	7 PM - 8 PM											
Friday, November 21, 2025	**Miscellaneous**	Miscellaneous	7 PM - 8 PM											
Monday, November 24, 2025		Miscellaneous	7 PM - 8 PM											
Tuesday, November 25, 2025		Miscellaneous	7 PM - 8 PM											
Wednesday, November 26, 2025		Miscellaneous	7 PM - 8 PM											
Thursday, November 27, 2025		Miscellaneous	7 PM - 8 PM											
Friday, November 28, 2025		Miscellaneous	7 PM - 8 PM											
Monday, December 1, 2025		Miscellaneous	7 PM - 8 PM											
Tuesday, December 2, 2025		Miscellaneous	7 PM - 8 PM											
Wednesday, December 3, 2025		Miscellaneous	7 PM - 8 PM											
Thursday, December 4, 2025		Miscellaneous	7 PM - 8 PM											
Rahul sir Strength of Materials														
Date	**Chapter**	**Title**	**Timing**											
Monday, December 1, 2025	**Orientation**	Orientation	4 PM - 5 PM											
Tuesday, December 2, 2025	**STRESS AND STRAIN**	Basic introduction , Load classifcation	4 PM - 5 PM											
Wednesday, December 3, 2025		Concept of stress and strain	4 PM - 5 PM											
Thursday, December 4, 2025		Mechanical properties of materials	4 PM - 5 PM											
Friday, December 5, 2025		Stress vs strain curve for all materials	4 PM - 5 PM											
Monday, December 8, 2025		Elastic constant	4 PM - 5 PM											
Tuesday, December 9, 2025		Concepts of deformation-1	4 PM - 5 PM											
Wednesday, December 10, 2025		Concepts of deformation-2	4 PM - 5 PM											
Thursday, December 11, 2025	**STRAIN ENERGY**	Strain energy due axial and self weight	4 PM - 5 PM											
Friday, December 12, 2025	**THERMAL STRESS**	Thermal stress under free expansion	4 PM - 5 PM											
Monday, December 15, 2025		Thermal stress under fixed , composite beam	4 PM - 5 PM											
Tuesday, December 16, 2025	**SHEAR IN BEAM**	Shear in rectangular and triangular section	4 PM - 5 PM											
Wednesday, December 17, 2025		Shear in circular , IN section of beam	4 PM - 5 PM											

Thursday, December 18, 2025	**BENDING IN BEAM**	Bending equation	4 PM - 5 PM											
Friday, December 19, 2025		Application of bending equation	4 PM - 5 PM											
Monday, December 22, 2025	**TORSION IN SHAFT**	Torsion equation	4 PM - 5 PM											
Tuesday, December 23, 2025		Torsion equation application	4 PM - 5 PM											
Wednesday, December 24, 2025	**Combined stress**	Concepts of normal and shear stress in oblique plane	4 PM - 5 PM											
Thursday, December 25, 2025		Concepts of principle plane ,stress	4 PM - 5 PM											
Friday, December 26, 2025		Mohr Circle	4 PM - 5 PM											
Monday, December 29, 2025	**SFD AND BMD**	Basic , types of beam support , reaction calculation	4 PM - 5 PM											
Tuesday, December 30, 2025		SFD & BMD OF Cantiliver & ssb beam	4 PM - 5 PM											
Wednesday, December 31, 2025		SFD & BMD combination of load	4 PM - 5 PM											
Thursday, January 1, 2026	**SLOPE AND DEFLECTION**	Basic and Method of slope and deflection	4 PM - 5 PM											
Friday, January 2, 2026		Slope and deflection of cantiliver	4 PM - 5 PM											
Monday, January 5, 2026		Slope and deflection of SSB beam	4 PM - 5 PM											
Tuesday, January 6, 2026	**COLUMN AND STRUT**	Basic and eulers and rankine formula	4 PM - 5 PM											
Wednesday, January 7, 2026	**THIN AND THICK CYLINDER**	Basic and thin cylinder stress calculation	4 PM - 5 PM											
Thursday, January 8, 2026	**THEORY OF FAILURE**	Theory of failure-1	4 PM - 5 PM											
Friday, January 9, 2026		Theory of failure-2	4 PM - 5 PM											
Monday, January 12, 2026	**LIVE DOUBT AND MISCELLANEOUS**	Live doubt and miscellaneous-1	4 PM - 5 PM											
Tuesday, January 13, 2026		Live doubt and miscellaneous-2	4 PM - 5 PM											
Wednesday, January 14, 2026		Live doubt and miscellaneous-3	4 PM - 5 PM											