

STUDY PLAN

Thermodynamics		Production engineering		Fluid Mechanics		HEAT AND MASS TRANSFER	
Topic	Timing	Title	Timing	Title	Timing	Title	Timing
Basics Concept-1	Recording-1	Welding-1	Recording-1	Introduction	Recording-1	Basic Introduction (Heat Transfer)	Recording-1
Basics Concept-2	Recording-2	Welding-2	Recording-2	Fluid Properties - Part 1	Recording-2	Conduction-1	Recording-2
Heat and work-1	Recording-3	Welding-3	Recording-3	Fluid Properties - Part 2	Recording-3	Conduction-2	Recording-3
Heat and work-2	Recording-4	Welding-4	Recording-4	Newton's Law of Viscosity	Recording-4	Conduction-3	Recording-4
	Recording-5	Welding-5	Recording-5	Fluid Classification	Recording-5	Fins	Recording-5
First law of thermodynamics-1	Recording-6	Casting-1	Recording-6	MCQ Practice (Basics)	Recording-6	Convection-1	Recording-6
First law of thermodynamics-2	Recording-7	Casting-2	Recording-7	Surface Tension & Capillarity - 1	Recording-7	Convection-2	Recording-7
First law of thermodynamics-3	Recording-8	Casting-3	Recording-8	Surface Tension & Capillarity - 2	Recording-8	Convection-3	Recording-8
First law of thermodynamics-4	Recording-9	Casting-4	Recording-9	Pressure Measurement - Basics	Recording-9	Radiation-1	Recording-9
First law of thermodynamics-5	Recording-10	Casting-5	Recording-10	Pressure Laws	Recording-10	Radiation-2	Recording-10
Second law of thermodynamics-1	Recording-11	Metal Forming-1	Recording-11	Pressure Measuring Devices	Recording-11	Radiation-3	Recording-11
Second law of thermodynamics-2	Recording-12	Metal Forming-2	Recording-12	Pressure MCQ	Recording-12		
Entropy part-1	Recording-13	Metal Forming-3	Recording-13	Buoyancy & Floatation - 1	Recording-13		
Entropy part-2	Recording-14	Metal Forming-4	Recording-14	Buoyancy & Floatation - 2	Recording-14		
Entropy part-3	Recording-15	Metal Forming-5	Recording-15	Buoyancy & Floatation - 3	Recording-15		
Entropy part-4	Recording-16	Metrology-1	Recording-16	Hydrostatic Forces - Plane Surface	Recording-16		
Properties of pure substance part 1	Recording-17	Metrology-2	Recording-17	Hydrostatic Forces - Curved Surface	Recording-17		
Properties of pure substance part 2	Recording-18	Concept of MMT-1	Recording-18	Kinematics Intro + Types + Continuity	Recording-18		
Properties of pure substance part 3	Recording-19	Concept of MMT-2	Recording-19	Velocity Potential & Stream Function - 1	Recording-19		

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Properties of pure substance part 4	Recording-20	Concept of MMT-3	Recording-20	Velocity Potential & Stream Function - 2	Recording-20		
		Concept of MMT-4	Recording-21	Velocity Potential & Stream Function - 3	Recording-21		
		Concept of MMT-5	Recording-22	Fluid Dynamics Intro + Bernoulli	Recording-22		
		Unconventional Machining-1	Recording-23	Bernoulli Applications	Recording-23		
		Unconventional Machining-2	Recording-24	Orifice Meter & Pitot Tube	Recording-24		
		Jigs & Fixtures	Recording-25	Laminar Flow - 1	Recording-25		
		Metal Cutting-1	Recording-26	Laminar Flow - 2	Recording-26		
		Metal Cutting-2	Recording-27	Laminar Flow - 3	Recording-27		
		Metal Cutting-3	Recording-28	Laminar vs Turbulent - 1	Recording-28		
		Concept of MMT-1	Recording-29	Laminar vs Turbulent - 2	Recording-29		
		Concept of MMT-2	Recording-30	Laminar vs Turbulent - 3	Recording-30		
				Boundary Layer Theory	Recording-31		
				Vortex Flow (Free & Forced)	Recording-32		
				Flow Through Pipes - 1	Recording-33		
				Flow Through Pipes - 2	Recording-34		
				Flow Through Pipes - 3	Recording-35		
				Dimensional Analysis & Modelling	Recording-36		
				OCF - 1	Recording-37		
				OCF - 2	Recording-38		
				OCF - 3	Recording-39		
				Impact of Jets - 1	Recording-40		

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Topic	Timing	Title	Timing	Title	Timing	Title	Timing
				Impact of Jets - 2	Recording-41		
				Hydraulic Turbine Intro & Classification - 1	Recording-42		
				Hydraulic Turbine Intro & Classification - 2	Recording-43		
				Types of Turbines - 1	Recording-44		
				Types of Turbines - 2	Recording-45		
				Modeling & Similitude MCQ	Recording-46		
				Pumps - 1	Recording-47		
				Pumps - 2	Recording-48		
				Pumps - 3	Recording-49		