

STUDY PLAN

Thermodynamics		Production engineering		Fluid Mechanics	
Topic	Timing	Title	Timing	Title	Timing
Basics Concept-1	Recording-1	Welding-1	Recording-1	Introduction	Recording-1
Basics Concept-2	Recording-2	Welding-2	Recording-2	Fluid Properties - Part 1	Recording-2
Heat and work-1	Recording-3	Welding-3	Recording-3	Fluid Properties - Part 2	Recording-3
Heat and work-2	Recording-4	Welding-4	Recording-4	Newton's Law of Viscosity	Recording-4
	Recording-5	Welding-5	Recording-5	Fluid Classification	Recording-5
First law of thermodynamics-1	Recording-6	Casting-1	Recording-6	MCQ Practice (Basics)	Recording-6
First law of thermodynamics-2	Recording-7	Casting-2	Recording-7	Surface Tension & Capillarity - 1	Recording-7
First law of thermodynamics-3	Recording-8	Casting-3	Recording-8	Surface Tension & Capillarity - 2	Recording-8
First law of thermodynamics-4	Recording-9	Casting-4	Recording-9	Pressure Measurement - Basics	Recording-9
First law of thermodynamics-5	Recording-10	Casting-5	Recording-10	Pressure Laws	Recording-10
Second law of thermodynamics-1	Recording-11	Metal Forming-1	Recording-11	Pressure Measuring Devices	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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		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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				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
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				Pumps - 3	Recording-49