

STUDY PLAN

Production engineering		HEAT AND MASS TRANSFER		Fluid Mechanics		Engineering Mechanics	
Title	Timing	Title	Timing	Title	Timing	Title	Timing
Welding-1	Recording-1	Basic Introduction (Heat Transfer)	Recording-1	Introduction	Recording-1	Basic of forces-1	Recording-1
Welding-2	Recording-2	Conduction-1	Recording-2	Fluid Properties - Part 1	Recording-2	Basic of forces-2	4PM-5PM
Welding-3	Recording-3	Conduction-2	Recording-3	Fluid Properties - Part 2	Recording-3	Basic of forces-3	4PM-5PM
Welding-4	Recording-4	Conduction-3	Recording-4	Newton's Law of Viscosity	Recording-4	Basic of forces-4	4PM-5PM
Welding-5	Recording-5	Fins	Recording-5	Fluid Classification	Recording-5	Basic of forces-5	4PM-5PM
Casting-1	Recording-6	Convection-1	Recording-6	MCQ Practice (Basics)	Recording-6	Types of beam-1	4PM-5PM
Casting-2	Recording-7	Convection-2	Recording-7	Surface Tension & Capillarity - 1	Recording-7	Types of beam-2	4PM-5PM
Casting-3	Recording-8	Convection-3	Recording-8	Surface Tension & Capillarity - 2	Recording-8	Concepts of friction-1	4PM-5PM
Casting-4	Recording-9	Radiation-1	Recording-9	Pressure Measurement - Basics	Recording-9	Concepts of friction -2	4PM-5PM
Casting-5	Recording-10	Radiation-2	Recording-10	Pressure Laws	Recording-10	Concepts of friction -3	4PM-5PM
Metal Forming-1	Recording-11	Radiation-3	Recording-11	Pressure Measuring Devices	Recording-11	Moment of Inertia-1	4PM-5PM
Metal Forming-2	Recording-12			Pressure MCQ	Recording-12	Moment of Inertia-2	4PM-5PM
Metal Forming-3	Recording-13			Buoyancy & Floatation - 1	Recording-13	Moment of Inertia-3	4PM-5PM
Metal Forming-4	Recording-14			Buoyancy & Floatation - 2	Recording-14	Conservation of momentum and energy-1	4PM-5PM
Metal Forming-5	Recording-15			Buoyancy & Floatation - 3	Recording-15	Conservation of momentum and energy-2	4PM-5PM
Metrology-1	Recording-16			Hydrostatic Forces - Plane Surface	Recording-16		
Metrology-2	Recording-17			Hydrostatic Forces - Curved Surface	Recording-17		
Concept of MMT-1	Recording-18			Kinematics Intro + Types + Continuity	Recording-18		
Concept of MMT-2	Recording-19			Velocity Potential & Stream Function - 1	Recording-19		

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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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Title	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		