

STUDY PLAN

Fluid Mechanics		Engineering Mechanics		Highway Engineering		Environmental Engineering	
Topic	Timing	Topic	Timing	Topic	Timing	Topic	Timing
Introduction	Recording-1	Engineering Mechanics-1	Recording-1	Introduction and all plans-1	Recording-1	Introduction	Recording-1
Fluid Properties - Part 1	Recording-2	Engineering Mechanics-2	Recording-2	Introduction and all plans-2	Recording-2	Water Demand	Recording-2
Fluid Properties - Part 2	Recording-3	Engineering Mechanics-3	Recording-3	Cross sectional elements-1	Recording-3	Population Forecast-1	Recording-3
Newton's Law of Viscosity	Recording-4	Engineering Mechanics-4	Recording-4	Cross sectional elements-2	Recording-4	Population Forecast-2	Recording-4
Fluid Classification	Recording-5	Engineering Mechanics-5	Recording-5	Sight distance-1	Recording-5	Physical Water Quality Parameters	Recording-5
MCQ Practice (Basics)	Recording-6	Engineering Mechanics-6	Recording-6	Sight distance-2	Recording-6	Chemical Water Quality Parameters-1	Recording-6
Surface Tension & Capillarity - 1	Recording-7	Engineering Mechanics-7	Recording-7	Horizontal alignment-1	Recording-7	Chemical Water Quality Parameters-2	Recording-7
Surface Tension & Capillarity - 2	Recording-8	Engineering Mechanics-8	Recording-8	Horizontal alignmen-2	Recording-8	Hardness of Water-1	Recording-8
Pressure Measurement - Basics	Recording-9	Engineering Mechanics-9	Recording-9	Vertical alignment-1	Recording-9	Hardness of Water-2	Recording-9
Pressure Laws	Recording-10	Engineering Mechanics-10	Recording-10	Vertical alignment-2	Recording-10	Nitrogen Content-1	Recording-10
Pressure Measuring Devices	Recording-11			Traffic characteristics and voulme study-1	Recording-11	Nitrogen Content-2	Recording-11
Pressure MCQ	Recording-12			Flexible pavement-1	Recording-12	Screening, Aeration	Recording-12
Buoyancy & Floatation - 1	Recording-13			Flexible pavement-2	Recording-13	Sedimentation-1	Recording-13
Buoyancy & Floatation - 2	Recording-14			rigid pavement-1	Recording-14	Sedimentation-2	Recording-14
Buoyancy & Floatation - 3	Recording-15			rigid pavement-2	Recording-15	Filtration	Recording-15
Hydrostatic Forces - Plane Surface	Recording-16			Testing of materials-1	Recording-16	Disinfection	Recording-16
Hydrostatic Forces - Curved Surface	Recording-17			Testing of materials-2	Recording-17	Water Softening-1	Recording-17
Kinematics Intro + Types + Continuity	Recording-18			Marshall mix method-1	Recording-18	Water Softening-2	Recording-18
Velocity Potential & Stream Function - 1	Recording-19			Marshall mix method-2	Recording-19	Water Softening-3	Recording-19

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Topic	Timing	Topic	Timing	Topic	Timing	Topic	Timing
Velocity Potential & Stream Function - 2	Recording-20			Traffic characteristics and volume study-2	Recording-20	Chemical Waste Water Treatment Plant	Recording-20
Velocity Potential & Stream Function - 3	Recording-21			Traffic speed and capacity studies-1	Recording-21	BOD, COD-1	Recording-21
Fluid Dynamics Intro + Bernoulli	Recording-22			Traffic speed and capacity studies-2	Recording-22	BOD, COD-2	Recording-22
Bernoulli Applications	Recording-23			Traffic control devices-1	Recording-23	Dilution	Recording-23
Orifice Meter & Pitot Tube	Recording-24			Traffic control devices-2	Recording-24	Design of Sewer	Recording-24
Laminar Flow - 1	Recording-25					Grit Chamber	Recording-25
Laminar Flow - 2	Recording-26					Sedimentation-1	Recording-26
Laminar Flow - 3	Recording-27					Sedimentation-2	Recording-27
Laminar vs Turbulent - 1	Recording-28					Trickling Filter-1	Recording-28
Laminar vs Turbulent - 2	Recording-29					Trickling Filter-2	Recording-29
Laminar vs Turbulent - 3	Recording-30					Activated Sludge	Recording-30
Boundary Layer Theory	Recording-31					Disposal of MSW	Recording-31
Vortex Flow (Free & Forced)	Recording-32					Noise Pollution-1	Recording-32
Flow Through Pipes - 1	Recording-33					Noise Pollution-2	Recording-33
Flow Through Pipes - 2	Recording-34					Noise Pollution-3	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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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						