



LESSON PLAN-(SUMMER-2024)
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- MECHANICAL	Semester-4TH	Name of teaching faculty- Er. Soumya Ranjan Kar
Subject- FM	No class allotted/ per week -4	SEM From date- 16.1.2024 TO 26.4.2024 No of weeks- 15
Week	Class day	Theory Topics
week-1	16.01.2024	Defination Of Fluid, Properties of Fluid
	17.01.2024	Kinematic Properties, Thermodynamic Properties and Physical Properties
	18.01.2024	Density, Specific Weight, Temperature
	22.01.2024	Pressure, Specific Volume and Surface Tension
week-2	23.01.2024	Question Answer Dicussion Class on Fluid Mechanics
	25.01.2024	Classification of fluids
	29.01.2024	Steady Fluid, Unsteady Fluid, Compressible and Incompressible
	30.01.2024	Viscous fluid and Non Viscous fluid
week-3	31.01.2024	Assignment
	01.02.2024	Rotational And Irrotational fluid
	02.02.2024	Problem solved
	05.02.2024	Ideal Fluid, Properties Of an Ideal Fluid
week-4	06.02.2024	Real Fluid, Types of fluids
	08.02.2024	Newtonian and Non newtonian fluids
	09.02.2024	Difference between ideal and real fluids
	12.02.2024	Specific viscosity, Viscosity, Kinematic Viscosity
week-5	13.02.2024	Importance of Viscosity on Fluid motion and effect on temperature
	16.02.2024	Newton's Law of viscosity
	19.02.2024	Compressibility Bulk Modulus of fluids
	21.02.2024	Capillarity, Cohesion and Adhesion in fluids
week-6	22.02.2024	Momentum of Momentum equation, momentum equation
	24.02.2024	State Laws Of Fluid Friction
	26.02.2024	Solved Problems
	27.02.2024	Solved Problems
week-7	28.02.2024	Eulers equation of motion, Venturimeter
	29.02.2024	Class Test 1
	01.03.2024	Hydrostatics, Streamline or Laminar flow
	04.03.2024	Streamline and Turbulent Flow
week-8	05.03.2024	Causes of Laminar and Turbulent flow, Differences
	07.03.2024	Solved Problems
	11.03.2024	Capillarity of water and mercury
	13.03.2024	Solved Problems
week-9	14.03.2024	Pressure head
	15.03.2024	Solved Problems
	18.03.2024	Pascal's Law (Derivation)
	20.03.2024	Atmospheric pressure, Gauge pressure, Absolute pressure

week-10	21.03.2024	Measurement of fluid pressure
	22.03.2024	Tube Gauges (Piezometer, Manometer)
	27.03.2024	Piezometer
week-11	28.03.2024	Burdon Tube Pressure Gauge
	29.03.2024	Bourdon Tube Operating Principle
	30.03.2024	Dry Bourdon and Wet Bourdon Tube Pressure Gauge
	01.04.2024	Features of Bourdon Tube Pressure Gauge, selection criteria
week-12	03.04.2024	Internal Assessment
	04.04.2024	Solved Problems
	08.04.2024	Solved Problems
	09.04.2024	Bernoulli's Equation (Derivation)
	10.04.2024	Bernoulli's Equation (Derivation)
week-13	11.04.2024	Continuity Equation (Derivation)
	12.04.2024	Continuity Equation (Derivation)
	15.04.2024	Solved Problems
	16.04.2024	Solved Problems
week-14	19.04.2024	Solved Problems
	20.04.2024	Hydrostatic Pressure, Hydrostatic pressure formula
	22.04.2024	Hydrostatic Pressure Derivation
	23.04.2024	Solved Problems
week-15	24.04.2024	Buoyancy, Total Pressure & Center of Pressure
	25.04.2024	Orifice, Orifice Coefficients, Relationship between Orifice Coefficients
	26.04.2024	Discharge over a rectangular Notch or Weir

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