



LESSON PLAN-(SUMMER-2023)
SWAMI VIVEKANANDA SCHOOL OF ENGG & TECH, BBSR

Discipline- MECHANICAL	Semester-4TH	Name of teaching faculty- Er. Soumya Ranjan Kar
Subject- FM	alloted/ per week -4	SEM From date- 10.3.2022 TO 10.6.2022 No of weeks- 15
Week	Class day	Theory Topics
week-1	13.02.2023	Defination & unit of fluid pressure, pressure intensity & pressure head
	14.02.2023	Concept of atm. Pre, gauge pre, vacuum pre & absolute pre
	15.02.2023	Related problem solved
	17.02.2023	Study of simple Manometer with problem solved
week-2	20.02.2023	Study of differential Manometer with problem solved
	21.02.2023	Study of bourden tube pressure gauge
	22.02.2023	Related problem solved
	24.02.2023	Solved problem
week-3	27.02.2023	ASSIGNMENTS
	28.02.2023	Archimedis' principle, concept of buoyancy, Metacentre & Metacentric Height.
	2.03.2023	Problem solved
week-4	3.03.2023	Laminar & turbulent flow
	6.03.2023	Compressible& incompressible flow
	9.03.2023	Rotational and Irrotational flow Laminar & turbulent flow
	10.03.2023	Compressible& incompressible flow
week-5	20.03.2023	Rotational and Irrotational flow
	21.03.2023	Statement and proof
	23.03.2023	Relationship bet cc cv & cd
	27.03.2023	Statement and proof for one dimensional flow
week-6	28.03.2023	Problem solved
	29.03.2023	Define A Pipe
	31. 03.2023	State Laws Of Fluid Friction
	3.04.2023	The Equation Of Loss Of head Through Pipe Due To Friction (DARCY'S)
week-7	5.04.2023	PROBLEM SOLVED
	6.04.2023	The Equation Of Loss Of head Through Pipe Due To Friction (CHEZY'S)
	11.04.2023	Hydraulic Gradient & Total Energy Line
	12.04.2023	PROBLEM SOLVED
week-8	13.04.2023	ASSIGNMENTS
	17.04.2023	Introduction
	19.04.2023	Force exerted by the jet on a stationary vertical plate work done , efficiency.
	20.04.2023	Force exerted by the jet on a moving vertical plate & work done , efficiency

	24.04.2023	Force exerted by a jet of water on an unsymmetrical moving curved plate when
week-9	25. 04.2023	Efficiency of jet
	26.04.2023	ASSIGNMENTS
	27.04.2023	Layout and feature of hyd-electric power plant
	28.04.2023	Classification of turbines
week-10	01.05.2023	Construction and working
	02.05.2023	Work done, efficiency
	03.05.2023	Discharge over a triangular notch or weir
	04.05.2023	Construction and working
week-11	08.05.2023	Loss of energy in pipes
	10.05.2023	Head loss due to friction: Darcy's and Chezy's formula
	11.05.2023	Problem solved
	12.05.2023	ASSIGNMENTS
week-12	15.05.2023	Construction and working
	16.05.2023	Velocity diagram of a single impeller,workdone efficiency
	17.05.2023	Problem solved
	18.05.2023	Hydraulic gradient and total gradient line
week-13	19.05.2023	Derivation of work done on series of vanes and condition for maximum
	22.05.2023	efficiency.
	23.05.2023	Impact of jet on moving curved vanes, illustration using velocity triangles,
<p>HOD SIGN. DEAN (Academic) SIGN. PRINCIPAL SIGN.</p>		