

Discipline : MECHANICAL ENGG.	Semester : 4TH	Name of The Teaching Faculty : Er SANJAY KUMAR BISOYI	
Subject Fluid Mechanics	No Of Days/Week Class Allotted 05	Semester From : 16.01.2024 To 26.04.2024 No. Of Weeks : 15	
WEEKS	CLASS DAY	THEORY	
16.01.2024	1 st	Define fluid	
TO	2 nd	Description of fluid properties like Density, Specific weight, specific gravity	
20.01.2024	3 rd	specific volume and solve simple problems.	
	4 th	Definitions and Units of Dynamic viscosity, kinematic viscosity,	
22.01.2024	1 st	surface tension Capillary phenomenon	
TO	2 nd	NETAJI SUBASH CHANDRA BOSE JAYANTI	
27.01.2024	3 rd	Solve numerical	
	4 th	Definitions and units of fluid pressure	
	5 th	REPUBLIC DAY	
29.01.2024	1 st	pressure intensity and pressure head.	
TO	2 nd	Statement of Pascal's Law.	
03.02.2024	3 rd	Concept of atmospheric pressure, gauge pressure,	
	4 th	Vacuum pressure and absolute pressure	
	5 th	Solve numerical	
05.02.2024	1 st	Manometers (Simple and Differential)	
TO	2 nd	Bourdon tube pressure gauge(Simple Numerical)	
10.02.2024	3 rd	Solve simple problems on Manometer	
	4 th	Revision of chapter	
	5 th	Definition of hydrostatic pressure	
12.02.2024 TO	1 st	Total pressure and centre of pressure on immersed bodies	
17.02.2024	2 nd	Solve numerical	
	3 rd	SARASWATI PUJA(VASANTA PANCHAMI)	
	4 th	Solve numerical	
	5 th	Archimedes 'principle, concept of buoyancy	
19.02.2024	1 st	meta center and meta centric height	
TO	2 nd	Concept of floatation	
24.02.2024	3 rd	Revision of chapter	
	4 th	Types of fluid flow	
	5 th	Continuity equation(Statement and proof for one dimensional flow)	
26.02.2024	1 st	Solve numerical	
TO	2 nd	Bernoulli's theorem	
02.03.2024	3 rd	Solve numerical	
	4 th	Applications and limitations of Bernoulli's theorem	
	5 th	Venturimeter, pitot tube	
04.03.2024	1 st	Define orifice	
TO	2 nd	PANCHAYAT RAJ DIVAS	
09.03.2024	3 rd	Flow through orifice	
	4 th	Orifices coefficient & the relation between the orifice coefficients	
	5 th	MAHA SIVA RATRI	
	1 st	Classifications of notches & weirs	
11.03.2024	2 nd	Discharge over a rectangular notch or weir	

TO 16.03.2024	3 rd	Solve numerical	
	4 th	Discharge over a triangular notch or weir	
	5 th	Solve numerical	
18.03.2024 TO 23.03.2024	1 st	Definition of pipe	
	2 nd	Loss of energy in pipes.	
	3 rd	Head loss due to friction	
	4 th	Darcy's and Chezy's formula	
	5 th	Solve Problems using Darcy's formula.	
25.03.2024 TO 30.03.2024	1 st	DOLO PURNIMA	
	2 nd	HOLI	
	3 rd	Solve Problems using Darcy's and Chezy's formula.	
	4 th	Revision of the chapter	
	5 th	GOOD FRIDAY	
01.04.2024 TO 06.04.2024	1 st	UTKAL DIVAS	
	2 nd	Hydraulic gradient and total gradient line	
	3 rd	Impact of jet on fixed flat plate	
	4 th	moving vertical flat plates	
	5 th	Derivation of work done on series of vanes	
08.04.2024 TO 13.04.2024	1 st	Condition for maximum efficiency.	
	2 nd	Solve numerical	
	3 rd	Impact of jet on moving curved vanes	
	4 th	ID UL FITRE	
	5 th	illustration using velocity triangles,	
15.04.2024 TO 20.04.2024	1 st	derivation of work done, efficiency	
	2 nd	Solve numerical	
	3 rd	RAM NAVAMI	
	4 th	Solve numerical	
	5 th	Previous year question discussion 2023 (S)	
22.04.2024 TO 27.04.2024	1 st	Revision of chapter 1	
	2 nd	Revision of chapter 2	
	3 rd	Revision of chapter 3	
	4 th	Revision of chapter 4	
	5 th	Revision of chapter 6	
		CLOSING OF ATTENDANCE	

