

Dicipline:	Meech.	Semester: 4th	Name of the Teaching Faculty: Ajitav Sahoo	
Subject:	F.M	No of Days/Week Class Allotted: 4	Semester From date: 13/02/23 To date 23/05/23	No.of Weeks:
WEEK	Class Day	Theory Topics		
1	1st	Define fluid		
	2nd	Fluid properties		
	3rd	Definition & units of dynamic viscosity, kinematic viscosity etc.		
	4th	Definition & units of fluid pressure.		
	5th			
2	1st	Statement of Pascal's law		
	2nd	Concept of atmospheric pressure, gauge pressure. Vacuum pressure.		
	3rd	Pressure measuring instruments.		
	4th	Manometers, Bourdon tube pressure gauge.		
	5th			
3	1st	Solved simple problem on manometers.		
	2nd	Definition of hydraulic pressure		
	3rd	Total net pressure & centre of pressure.		
	4th	Solved simple problem.		
	5th			

WEEK	Class Day	Theory Topics
A	1st	Archimedes's principle
	2nd	Concept of buoyancy, meta centre, meta-centric height
	3rd	Concept of floatation
	4th	Types of fluid flow
	5th	
5	1st	Continuity eqn. (statement & proof)
	2nd	Bernoulli's theorem details
	3rd	Application & limitation of above
	4th	Solved simple problem
	5th	
6	1st	Define orifice
	2nd	Loss of energy in pipe
	3rd	Head loss due to friction
	4th	Solved simple problem
	5th	

Dicipline:	Meeh.	Semester: 4th	Name of the Teaching Faculty: Ajitav Saboo	
Subject:	F.M	No of Days/Week Class Allotted: 1	Semester From date: 13/02/23 To date: 23/05/23	No.of Weeks: 60
WEEK	Class Day	Theory Topics		
07 15	1st	Darcy's & chezy's formula		
	2nd	Hydraulic gradient & total gradient line		
	3rd	Impact of jet on flat plates		
	4th	Derivation of max. efficiency		
	5th			
08 15	1st	Solved simple problems.		
	2nd	Impact of jet on curved vanes		
	3rd	Condition of max. efficiency		
	4th	Illustration of velocity triangles.		
	5th			
09 15	1st	Derivation of work done & efficiency		
	2nd	Solved simple problem		
	3rd	Revision of above topics		
	4th	Surprise test.		
	5th	Sotjahan Acharyya		