

PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF
ENGINEERING & TECHNOLOGY, BARGARH



LESSON PLAN
Session-2022-2023

Discipline: Mechanical Engg. Semester: 4th
Name of the Teaching Faculty: Santosh Panda

Subject: FM No. of Days/per week class allotted 4

Semester From Date: 14/2/23 To Date: 23/5/23 No. of Weeks: 15

Week	Class Day	Theory /Practical Topics
1	1	Defination & types of fluid
	2	fluid Properties - Density, Volume etc.
	3	Specific Gravity & Volume.
	4	Some Example of above said topics.
2	1	viscosity & Newtons law of viscosity.
	2	Def ⁿ & unit of kinematic viscosity.
	3	Surface tension and its units
	4	Capillary Action of fluids.
3	1	Pascal's law & its importance.
	2	Atm Press. , Gage pressure & its units
	3	Vacuum Pressure & units
	4	Absolute Pressure & units.

Santosh Pandey
Signature of the Faculty

Subject: FM No. of Days/per week class allotted 4

Semester From Date: 14/2/23 To Date: 23/5/23 No. of Weeks: 14

Week	Class Day	Theory / Practical Topics
4	1	Pressure Measuring Instrument.
	2	Simple Manometer, Problem related to them.
	3	Differential Manometer & Problems.
	4	Bourdon tube Pressure Gauge.
5	1	Question Practice
	2	Hydrostatic Law.
	3	Total Pressure of body
	4	Centre of Pressure of body.
6	1	Problem related to T.P & C.P.
	2	Archimedes Principle
	3	Meta Centre & Meta centric height.
	4	Floating Concept.

Santosh Panda
Signature of the Faculty

subject: FM No. of Days/per week class allotted 4

Semester From Date: 14/2/23 To Date: 23/5/23 No. of Weeks: 15

Week	Class Day	Theory / Practical Topics
7	1	Stability of a floating Body.
	2	Problems related to above topic.
	3	Kinematics of flow.
	4	Types of flow.
8	1	Continuity Equation.
	2	Bernoulli's Equation.
	3	Application of Bernoulli's Eqn.
	4	Problem Practice.
9	1	Pitot tube
	2	venturi Meter.
	3	orifice Meter.
	4	flow through pipes.

Santosh Panda
Signature of the Faculty

subject:

FM

No. of Days/per week class allotted 4Semester From Date: 14/2/23 To Date: 23/5/23 No. of Weeks: 15

Week	Class Day	Theory / Practical Topics
10	1	Orifice Co-efficient.
	2	Classification of Notches & Weirs.
	3	Rectangular Notch, Weirs.
	4	O/A Discussion.
11	1	Triangular Notch & Weirs.
	2	Sample Problem.
	3	O/A Discussion.
	4	Flow through Pipes.
12	1	Loss of Energy in Pipes.
	2	Darcy's Formula
	3	Chézy Formula
	4	O/A Discussion.

Santoshy Pandey
Signature of the Faculty

Subject: FM No. of Days/per week class allotted 4

Semester From Date: 14/2/23 To Date: 23/5/23 No. of Weeks: 15

Week	Class Day	Theory /Practical Topics
13	1	HGL
	2	TEL
	3	Group Discussion.
	4	O/A Practice
14	1	IMPact of Jets.
	2	IMPacts of Jets in Mount Plak.
	3	w.D of Series of Vanes.
	4	IMPacts of Jets.
15	1	IMPacts of Jets in Curved Vanes.
	2	Velocity triangle of Vanes.
	3	O/A Discussion
	4	Group Discussion

Santosh Panda
Signature of the Faculty