

NM Institute Of Engineering and Technology, Bhubaneswar

DEPARTMENT: CIVIL ENG

LESSON PLAN: Academic Year 2022-23 (Even Semester)

COURSE: DIPLOMA

SEMESTER: 4TH

Subject/Code: HYDRAULIC AND IRRIGATION ENGINEERING.

Faculty Name: MR.SACHIKANTA PRADHAN

Sl. No.	Name of the Topic to Cover	Text Book	Teaching Method	Remark
1	Introduction to hydraulic.	T1	P	OK
2	Hydrostatics ,properties of fluid.	T2	G	OK
3	properties of fluid.	T2	P	OK
4	properties of fluid.	T3	G	OK
5	properties of fluid.	T1	G	OK
6	properties of fluid.	R1	G	OK
7	capillarity	T2	G	OK
8	Newtons law of viscosity	R1	G	OK
9	Pressure and its measurements:	T1	G	OK
10	Pressure and its measurements:	T2	P	OK
11	Pressure and its measurements:	R1	G	OK
12	atmospheric pressure, gauge pressure, absolute pressure	T1	P	OK
13	atmospheric pressure, gauge pressure, absolute pressure	T2	G	OK
14	Pressure exerted on an immersed surface	T3	G	OK
15	Total pressure and cetera pressure	T1	G	OK
16	expression for total pressure exerted on horizontal & vertical surface	T2	G	OK
17	expression for total pressure exerted on horizontal & vertical surface	T2	P	OK
18	KINEMATICS OF FLUID FLOW:	T1	G	OK
19	Basic equation of fluid flow and their application	R1	G	OK
20	Equation of continuity and bernoullis theorem	R1	G	OK
21	Types of flow through the pipes	R1	G	OK

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22	Types of flow through the pipes	T3	P	OK
23	Types of flow through open channel	T2	G	ch
24	Losses of head of a liquid flowing through pipes:	T1	G	ch
25	Losses of head of a liquid flowing through pipes:	T3	G	ch
26	Types of pump	T2	G	ch
27	centrifugal pump	T2	P	ch
28	reciprocating pump	T1	P	ch
29	Hydrologic cycle.	T2	G	ch
30	rainfall types	T1	G	OK
31	measurements of rainfall by different method	T2	G	ch
32	measurements of rainfall by different method	T2	G	OK
33	irrigation and application of irrigation	T3	G	OK
34	water requirements of crops.	R1	P	ch
35	mduty and delata	R1	P	ch
36	Gross command area, culturable command area,	T2	G	ch
37	Gross command area, culturable command area,	T3	G	ch
38	irrigable area, time factor, crop ratio	T3	G	ch
39	irrigable area, time factor, crop ratio	T2	P	OK
40	canal irrigation	R1	P	ch
41	irrigable area, time factor, crop ratio	T3	G	ch
42	water logging and drainage area	T2	G	ch
43	cross drainge work	R1	G	ch
44	types of Dams	T2	G	ch
45	gravity dam and earthen dam	R1	P	ch

Method of Teaching
G: Green Board Teaching
P: Power Point Teaching

Faculty Signature

Sachin Kanya D. Madhavi