Lesson Plan/ Course Break – up

PCC-CVE301-P ADVANCED FLUID MECHANICS LAB

Name of the Faculty	Mr. KAMALDEEP
Discipline	B.Tech in Civil Engineering
Semester	5TH SEM(3RD YEAR)
Subject	ADVANCED FLUID MECHANICS LAB
Lesson Plan Duration	15 Weeks (from September to December2022)
Work Load (Lecture / Practical) per week (in hrs.)	Lectures – 02

WEEK	PRACTICAL NAME
1ST	To determine the coefficient of drag by Stoke's law for spherical bodies.
2ND	To study the phenomenon of cavitation in pipe flow.
3RD	To determine the critical Reynold's number for flow through commercial pipes
4TH	To determine the coefficient of discharge for flow over a broad crested weir.
5TH	To study the characteristics of a hydraulic jump on a horizontal floor and sloping glacis including friction blocks
6TH	To study the characteristics of a hydraulic jump on a horizontal floor and sloping glacis including friction blocks
7TH	MINOR TEST-1
8TH	To study the scouring phenomenon around a bridge pier model.
9TH	To study the scouring phenomenon for flow past a spur.
10TH	To determine the characteristics of a centrifugal pump.
11TH	To study the momentum characteristics of a given jet.
12TH	To determine head loss due to various pipe fittings
13TH	To determine head loss due to various pipe fittings
14TH	MINOR TEST-2
15TH	VIVA VOCE