FLUID MECHANICS LAB

Name of Lab In-charge: Mr. Ashutosh Gupta

Name of technical assistant: Mr. Janeshwar

Course Outcomes:

Code	Outcomes		
1	Understand the knowledge about the basic terminologies and will able to find out various conditions related to stability of floating bodies.		
	10 find our various conditions related to stability of floating bodies.		
2	Understand the knowledge about the fluid motion and will be able to		
	distinguish between them based on Reynolds no.		
3	Apply Bernoulli's equation in flow measuring devices together wi		
	there calibration		
4	Understand sources of major and minor losses and in practical		
	conditions.		

List of Equipment:

- 1. Reynolds no. apparatus
- 2. Bernoulli's Theorem
- 3. Minor Losses apparatus.
- 4. Major losses apparatus
- 5. Notch apparatus
- 6. Venturimeter & orifice meter apparatus.
- 7. Metacentric height

List of Experiments:

Sr. No.	As per AKTU	Performed/ Not performed
1	To determine the coefficient of impact for vanes.	YES
2	To determine coefficient of discharge of an orifice meter.	YES
3	To determine the coefficient of discharge of Notch (V and Rectangular types).	YES
4	To determine the friction factor for the pipes.	YES
5	To determine the coefficient of discharge of venturi meter.	YES
6	To determine the coefficient of discharge, contraction & velocity of an orifice.	YES
7	To verify the Bernoulli's Theorem.	YES
8	To find critical Reynolds number for a pipe flow.	YES
9	To determine the meta-centric height of a floating body.	YES

10	To determine the minor losses due to sudden enlargement, sudden contraction and bends.	YES
11	To show the velocity and pressure variation with radius in a forced vertex flow.	

Pictures of Labs: