



**CDL State Institute of Engineering and Technology**  
**Panniwala Mota (Sirsa)**  
**Mechanical Engineering Department**  
**FLUID MECHANICS (LAB)**

**General Course Information**

Course Code: PCC-ME205-P Course Category: Professional Core Course Course Credits: 1.0 Mode: Practical Contact Hours: 02 hours per week	Course Assessment Methods (internal: 30; external: 70): Internal practical evaluation is to be done by the course coordinator. The end semester practical examination will be conducted jointly by external and internal examiners.
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**Course Outcomes**

Sr. No.	Course Outcome	RBT Level
CO1	Students will be able to describe the fundamentals involved in measuring various performance parameters.	L1
CO2	Students will be able to understand the working of various flow meters.	L2
CO3	Students will be able to operate flow discharge measuring device used in pipes channels.	L3
CO4	Students will be able to examine types of flow and major and minor losses during fluid flow.	L4
CO5	Students will be able to Evaluate the error between theoretical and experimental results.	L5

**Experiments in FM Lab**

1. To verify the Bernoullis Theorem.
2. To determine the coefficient of discharge of an orifice meter.
3. To determine the coefficient of discharge of venturimeter.
4. To determine the coefficient of discharge of Notch (V and Rectangular types).
5. To determine the major loss due to friction in pipe flow.
6. To determine the coefficient of discharge, contraction & velocity of an orifice.
7. To find critical Reynolds number for a pipe flow.
8. To determine the meta-centric height of a floating body.
9. To determine the minor losses due to pipe fittings in pipes
10. To determine the density and viscosity of any three fluids.



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**Course Articulation Matrix (CO to PO/PSO Mapping)**

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	3	2	1	1	-	1	-	1	1	2	-	3	3	2	2
CO2	3	1	1	1	-	1	-	1	2	2	-	3	2	2	2
CO3	3	2	2	3	2	1	2	2	3	3	-	3	2	2	2
CO4	3	1	3	3	3	2	3	2	2	3	2	3	2	3	2
CO5	3	1	3	3	3	2	2	2	2	3	3	3	2	3	2

**1 : (Slight /Low),**

**2: (Moderate/Medium),**

**3 : (Substantial/High)**