SAVEETHA ENGINEERING COLLEGE

AUTONOMOUS

Affiliated to Anna University | Approved by AICTE

NAAC A GRADE

NBA

DEPARTMENT OF MECHANICAL ENGINEERING

ACTIVITY BASED LEARNING

Course Code & Course Title	**: 19ME305/FLUID MECHANICS & MACHINERY**
Year/Sem/Branch	**: I/II/MECHANICAL**
Name of Faculty	**: ARUMPARITHY GL**
Designation	**: ASSISTANT PROFESSOR**
Unit Title	**: FLUID PROPERTITES AND FLOW CHARACTERISITCS**
Topic	**: VENTURIMETER**
LO	**: Understand the working principal of Bernoulli's Eqn.**
Bloom's Taxonomy Level	**: Understand – K2**

S.No.	Title	Description
1	**Concept**	To make the students Understand the working principal of Bernoulli's Eqn.
2	**Challenges Faced**	(Difficulties faced by students while it was taught in conventional method) • In conventional method, students were not able to understand the concept and its importance completely. • The students become less involved in knowing about the concept.
3	**Name of the Activity**	**Virtual Lab**
4	**Description of the Activity**	• Introduction about the topic and step by step procedure for performing the experiment virtually and to know the importance of Bernoulli's equation in fluid flow.
5	**Feedback from Learners (Consolidated)**	https://docs.google.com/spreadsheets/d/1-wXgBzK7BQf3uEj8cObCreB5W6GozjSNgg9KAabY-iw/edit?usp=sharing
6	**Feedback of the Faculty about this activity**	(Previous experiences Vs Activity Based Teaching) • Students were able to understand the practical application of Bernoulli's equation and its importance in fluid flow. • It helped them to know more about the topic (outside the syllabus)

Analysis Report Chart.

- Above 90% students found Virtual lab was interesting
- More than 85% of students rated above '4' for Virtual lab

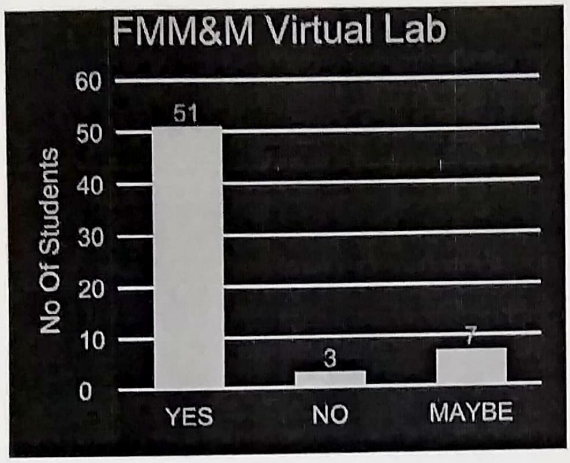

Fig-1 : Whether Virtual Lab was interesting

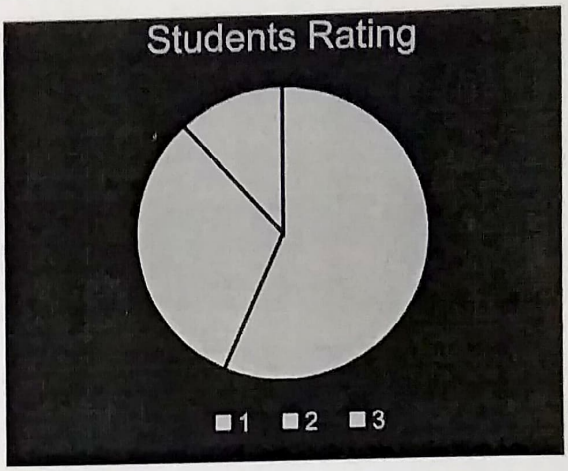

Fig-2 : Student ratings for case study

Signature of the Course Faculty

Signature of HOD

Evidences/Proofs (To be attached along with this document)-Mandatory

{Photos taken during activity **(or)** Documents collected from Students (Charts, Crossword puzzles, Cards etc.,)}

SL. NO	CONTENT	LINK
1	Virtual Lab link	https://fm-nitk.vlabs.ac.in/exp/venturimeter/