

## DEPARTMENT OF MECHANICAL ENGINEERING

## ACTIVITY BASED LEARNING

Course Code & Course Title

Year/Sem/Branch Name of Faculty Designation Unit Title

Topic LO : ME8594 & Dynamics of Machines

: III / V / Mechanical : Mr.V.Vijaya Rajan : Assistant Professor

: Unit – II – Balancing

: Balancing of single cylinder engine.

: Learners can able to calculate the balancing masses

for single cylinder engine

Bloom's Taxonomy Level

: Apply - K3

S.No.	Title	Description	
J	Concept	Concept is to make the students to understand how to calculate the balancing masses required for single cylinder engine.	
		(Difficulties faced by students while it was taught in conventional method	
2	Challenges Faced	<ul> <li>In conventional method, students felt difficult to understand the concertand</li> <li>The students become less involved in solving a problem by own.</li> </ul>	
3	Name of the Activity	Fish bowl debate	
4	Description of the Activity	<ul> <li>Introduction about the topic is delivered by PPT in google presentation through online.</li> <li>PPT:</li> <li>https://docs.google.com/presentation/d/1PUZehZy77pQSKTzhtSMqyYds/8ETzB9UCUBGEWAIw</li> </ul>	
		Three example problems are discussed and video link has been shared in Moodle.	
		In online students were allowed to form a group and allowed to discuss about the doubts and concepts.	
		At the end students are asked to write the concepts from their understanding and asked to solve the problems individually.	
5	Feedback from Learners (Consolidated)	https://does.google.com/spreadsheers/d/DaHTarUpegYo76V/Nag/Hw1DH9QT9xccPPjsLD06gc	
6	Feedback of the Faculty about this activity	<ul> <li>(Previous experiences Vs Activity Based Teaching)</li> <li>Students were able to easily understand how to calculate the balancing masses of single engine.</li> <li>Activity makes the students to feel free to ask their doubts with others.</li> </ul>	

## Analysis Report Chart.

- Above 75% students found activity based learning (Fish bowl debate) was interesting
- More than 75% of students rated above '4' for fish bowl debate.

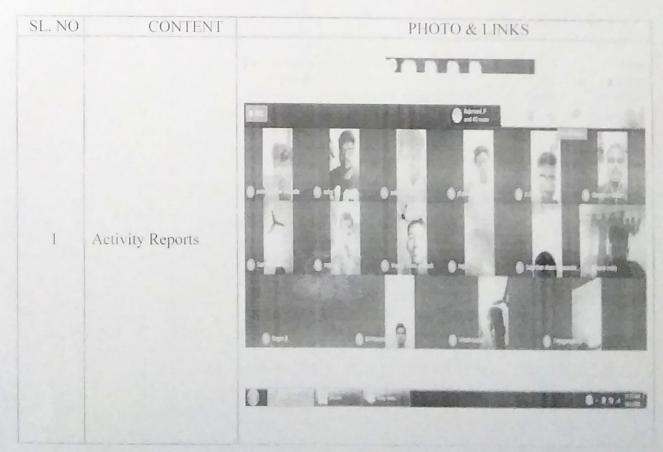


Fig-1 : Is ABL (fight bowl debate) useful to understand the concept Fig-2 : Student ratings for fish bowl debate

Signature of the Course Faculty

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

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



		Power point Presentation:
		https://drive.google.com/file/d/1M9klHrm_ClfcpFTT62= zLZYErSBEBVo/view usp-sharing
2	Online presentation	Example Problems: https://drive.google.com/file/d/Twrpdlvyhux_Ec1K0nC4fVGbpxaJkkbf/view?usp_sharing
		https://drive.google.com/file/d/lwrpdlvyhux-1/clK0uC4fVG/bpxaJkkbf/view?usp-sharing