

RAMCO INSTITUTE OF TECHNOLOGY
Department of Mechanical Engineering
Academic Year 2021 – 2022 (Odd Semester)

Innovative practice(s) description

Course code and title : CE8394 Fluid Mechanics and Machinery
Name of the Instructor(s) : Mr.M.Ashok Kumar, AP (SG)/Mechanical
Dr.P.Sureshkumar, ASCP/Mechanical
Date & Time : 29.10.2021 & 1.20 PM to 2.10 PM

Theory to Practice – Pumps and Turbines – Working and Performance

To explain the working of any machine, instrument and concept to the students, Theory to practice (T2P) is one of the best methods. In the subject CE8394 Fluid Mechanics and Machinery the Unit IV and V are Pumps and Turbines, in these topics, to draw the velocity diagrams for the corresponding pumps and turbine, the shape of the turbine and the geometry at inlet and outlet are very important and also understanding of working of pumps and turbine is very much important. In order to make our student to understand the working and shape of the pumps and turbines, the students were taken away to the fluid mechanics and machinery laboratory and the pump and turbines working were demonstrated. Through this activity all the students were clarifying doubts about the working of pumps and turbines.



OUTCOME:

- The students will be able to explain the working of different types of pumps and turbines
- The students will be able to compare the performance of different types of pumps and turbines

This activity helps in attaining the following CO – PO & PSO mapping:

Course Outcome / Programme Outcome	PO1	PO2	PO5	PO9	PSO3
CO4 – The students will be able to Calculate the performance parameters of different types of pump.	3	3	-	1	3
CO5 – Compare the performance of different types of turbine.	3	3	1	1	3