

Maulana Abul Kalam Azad University of Technology, West Bengal*(Formerly West Bengal University of Technology)***Syllabus for B. Tech in Civil Engineering**

(Applicable from the academic session 2018-2019)

CE(ES)491	Fluid Mechanics Laboratory	2P	1 Credits
Course Outcome	On completion of the course, the students will be able to: <ol style="list-style-type: none">1. Calibrate the notch and orifice meter.2. Evaluate the performance of pump and turbine.3. Determine the various hydraulic coefficients.4. Determine the minor losses through pipes.5. Measure the water surface profile due to formation of hydraulic jump.6. Measure the water surface profile for flow over Broad crested weir.		
Prerequisite	Introduction to Fluid Mechanics CE(ES)401		
Experiment 1	Calibration of Notches		
Experiment 2	Calibration of Orifice meter		
Experiment 3	Determination of Hydraulic Coefficient of an Orifice		
Experiment 4	Performance Test on Centrifugal Pump		
Experiment 5	Performance Test on Reciprocating Pump		
Experiment 6	Determination of Minor Losses in Pipes due to Sudden Enlargement and Sudden Contraction		
Experiment 7	Performance Test on Pelton Wheel Turbine		
Experiment 8	Measurement of water surface profile for flow over Broad crested weir		
Experiment 9	Measurement of water surface profile for a hydraulic jump		