

List of Experiments for Thermofluid Lab I (ME 310P)

Sr. No.	Experiment	Equipment's Name
01	To determine Fluid friction factor for the given pipes.	Pipe Friction Apparatus
02	To study Laminar and Turbulent Flow and It's visualization on Reynolds's Apparatus	Reynold's Apparatus
03	To determine loss coefficient for different pipe fittings.	Pipe Fitting Apparatus
04	To Determine the coefficient of discharge of given Rectangular, Triangular and Trapezoidal Coefficient of discharge of Notches.	Notch Apparatus
05	To validate Bernoulli's Theorem as applied to the flow of water in a tapering circular duct.	Bernoulli Apparatus
06	To determine the Metacentric height of a given floating body.	Metacentric height Apparatus
07	To determine the COP of the air Conditioning System To determine the COP of the air Conditioning System in recirculation type	AC Tutor
08	To determine the COP of the Refrigeration System	Refrigeration Tutor
09	To estimate the film heat transfer coefficient between the medium in which body is heated.	Unsteady State Heat Transfer Apparatus
10	To determine Lift and Drag forces on a symmetrical aerofoil at different angles of attack	Wind Tunnel
11	To study various characteristics of water cooling tower	Cooling Tower
12	To determine the calorific value of the given fuel	Bomb Calorimeter