

1.	Title of the course	Fluids and Thermal Laboratory
2.	Course number	ME535P
3.	Structure of credits	0-0-3-2
4.	Offered to	PG
5.	New course/modification to	Modification To ME5192/21
6.	To be offered by	Department of Mechanical Engineering
7.	To take effect from	July 2022
8.	Prerequisite	Nil
9.	Course Objective(s): To perform experiments related to fluid mechanics, thermodynamics, and heat transfer principles.	
10.	Course Content: Fluid Property measurements; Pressure sensor calibration; Thermocouple making and calibration; Thermal conductivity of liquids and gases; Psychrometry; Exergy analysis of internal combustion (IC) engines, heat exchanger and refrigeration systems.	
11.	Textbook(s): 1. Cengel Y A and Boles M A, <i>Thermodynamics: An Engineering Approach</i> , 9th Edition, McGraw Hill (2019).	
12.	Reference(s): 1. Incropera F P, Dewitt D P and Lavine A S, <i>Principles of Heat and Mass transfer</i> , 7th Edition, Wiley (2016).	