

Faculty of Mechanical Engineering
M.E. Thermal Engineering
(R 2021) Semester - I

Course Code:TE4111 Course Title: Thermal Engineering Laboratory		
Sl.No.	Description of Equipment	Required Numbers (for batch of 25 students)
1.	Multi cylinder Automotive Petrol Engine with data acquisition system	01
2.	Single cylinder variable compression ratio SI & CI Engine	01
3.	Cooling Tower Test Rig	01
4.	Heat Pump Test rig	01
5.	Vapour Compression Refrigeration Test Rig	01
6.	100 LPD Solar flat plate water heater test rig	01
7.	Gas Calorimeter	01 each
	Bomb Calorimeter	
	Cloud & Pour Point Apparatus	
	Viscometer	
	Thermal Conductivity Analyser	
8.	IBR/Non- IBR Boiler test rig	01
9.	Temperature Calibrator	01
10.	Pressure Calibrator	01
11.	Fan test rig	01

Faculty of Mechanical Engineering

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(R 2021) Semester - II

TE4211 THERMAL SYSTEMS SIMULATION LABORATORY

Sl.No.	Description of Equipment
1.	Software - Modeling software like ProE, Gambit, Ansys, etc Analysis software like Ansys, fluent, CFX, etc Equation solving software like Matlab, Engg equation solver
2.	Every students in a batch must be provided with a terminal
3.	Hardwares are compatible with the requirement of the above software