

1.	Title of the course	Heat Transfer Laboratory
2.	Course number	CH2292
3.	Status of the course	Core
4.	Structure of credits	0-0-3-2
5.	Offered to	UG
6.	New course/modification to	New course
7.	To be offered by	Department of Chemical Engineering
8.	To take effect from	January 2021
9.	Prerequisite	Nil
10.	Whether approved by the Department	Yes
11.	<b>Course Objective(s):</b> To perform experiments for applying the principles of process heat transfer.	
12.	<b>Course Content:</b> Heat conduction in solids; Free and forced convection; Unsteady state heat transfer; Radiation heat transfer; Heat exchangers.	
13.	<b>Textbook(s):</b> 1. Cengel Y A and Ghajar A J, <i>Heat and Mass Transfer</i> , 5th Edition, Tata McGraw Hill (2015). 2. Holman J P and Bhattacharyya S, <i>Heat Transfer</i> , 10th Edition, Tata McGraw Hill (2017).	
14.	<b>Reference(s):</b> 1. Incropera F P, Dewitt D P, Bergman T L and Lavine A S, <i>Principles of Heat and Mass Transfer</i> , 7th Edition, Wiley India (2013). 2. Kern D Q, <i>Process Heat Transfer</i> , 1st Edition, Tata McGraw Hill (2004). 3. Welty J, Wicks C E, Wilson R E and Rorrer G L, <i>Fundamentals of Momentum, Heat and Mass Transfer</i> , 5th Edition, Wiley India (2010).	