1.	Title of the course	Mass Transfer Laboratory
2.	Course number	CH3191
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	July 2021
9.	Prerequisite	Nil
10.	Whether approved by the Department	Yes
11.	**Course Objective(s):** To perform experiments for applying the principles of mass transfer. To perform experiments to study the effect of operating parameters on separation processes.	
12.	**Course Content:** Vapor-gas diffusivity; Drying; Distillation; Absorption; Liquid-liquid extraction; Leaching; Reverse osmosis; Adsorption.	
13.	**Textbook(s):** 1. McCabe W L, Smith J C and Harriot P, *Unit Operations of Chemical Engineering*, 7th Edition, Tata McGraw Hill (2014). 2. Treybal R E, *Mass Transfer Operations*, 3rd Edition, Tata McGraw Hill (2012).	
14.	**Reference(s):** 1. Dutta B K, *Principles of Mass Transfer and Separation Processes*, 2nd Edition, Prentice Hall India (2007). 2. Seader J D and Henley E J, *Separation Process Principles with Application using Process Simulators*, 4th Edition, John Wiley & Sons (2016).	