

1.	Title of the course	Applied Process Engineering I
2.	Course number	CH2150
3.	Status of the course	Core
4.	Structure of credits	- - -1
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 2020
9.	Prerequisite	Nil
10.	Whether approved by the Department	Yes
11.	Course Objective(s): To design units of the overall process using the appropriate tools introduced in the current semester.	
12.	Course Content: Perform material and energy balances, calculate power requirement and design the fluid flow machinery, calculate power requirement and design the size reduction equipment for the assigned process flow sheet and design problem.	
13.	Textbook(s): 1. Sinnott R K and Towler G, <i>Coulson and Richardson's Chemical Engineering: Chemical Engineering Design, Volume 6</i> , 3rd Edition, Butterworth-Heinemann (2015).	
14.	Reference(s): 1. Green D W and Southard M Z, <i>Perry's Chemical Engineers' Handbook</i> , 9th Edition, McGraw Hill (2018). 2. Sinnott R K and Towler G, <i>Chemical Engineering Design: Principles, Practice and Economics of Plant and Process Design</i> , 2nd Edition, Butterworth-Heinemann (2012).	