

1.	Title of the course	Applied Process Engineering IV
2.	Course number	CH3250
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	January 2022
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: Select and design the reactors, incorporate process instrumentation, controllers and safety features and develop piping & instrumentation diagram 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).	