

1.	Title of the course	Organic Chemistry Laboratory
2.	Course number	CY506P
3.	Structure of credits	0-0-6-4
4.	Offered to	PG
5.	New course/modification to	Modification To CY5191/19
6.	To be offered by	Department of Chemistry
7.	To take effect from	July 2022
8.	Prerequisite	Nil
9.	Course Objective(s): To impart hands-on experience on synthetic methods, separation and isolation techniques, and characterization of organic compounds by spectroscopy methods.	
10.	Course Content: Separation and purification of organic compounds by liquid-liquid extraction, Soxhlet extraction, recrystallization, distillation, column chromatography; Melting point determination of pure compounds; Monitoring of reaction by TLC; Structure determination of the isolated pure compounds by IR, UV-vis, NMR spectroscopy and Mass spectrometry; Synthesis, isolation and characterization of several organic compounds with an emphasis on different techniques of reaction set-up.	
11.	Textbook(s): 1. Pedersen S F and Myers A M, <i>Understanding the Principles of Organic Chemistry: A Laboratory Course</i> , 1st Edition, Cengage Learning (2010).	
12.	Reference(s): 1. Gilbert J C and Martin S F, <i>Experimental Organic Chemistry: A Miniscale & Microscale Approach</i> , 6th Edition, Cengage Learning (2015). 2. Pavia D L, Kriz G S, Lampman G M and Engel R G, <i>A Microscale Approach to Organic Laboratory Techniques</i> , 6th Edition, Cengage Learning (2016).	