



SECOND SEMESTER 2021-2022

Course Handout (Part - II)

Date: 15-01-

2022

This portion gives specific details regarding the course.

Course Number : **CHEM F242**
Course Title : **Chemical Experimentation-I**
Instructor-in-charge : **Dr. Arijit Mukherjee**
Team of Instructors : **Prof. Anupam Bhattacharya, Prof. D. Ramaiah, B Aniket Diliprao, Sruthi Peesapati**

- 1. Course Description:** This course is based on laboratory experiments in the field of organic chemistry.
- 2. Scope and Objective:** The main objective of this course is to educate the students with different concepts of organic chemistry by doing experiments. The students will carry out set of experiments that will expose them to various experimental techniques in organic chemistry. Experiments will include qualitative and quantitative analysis of organic compounds, detection of functional groups, and identification of organic compounds in a given mixture by thin layer chromatography and separation of organic compounds from a mixture by solvent extraction method and column chromatography. Students will also carry out synthesis; and extraction of organic compounds from natural sources.
- 3. Text Book(s):** Procedure of all the experiments will be provided.
- 4. Reference Book:**
 - I. Qualitative Organic Analysis (2nd Indian Edition) by A. I. Vogel. CBS Publishers and Distributors.
 - II. A Microscale Approach to Organic Laboratory Techniques (6th edition) by D. L. Pavia, G. M. Lampman, G. S. Kriz and R. G. Engel. Cengage Learning.
- 5. Course Plan:** The students will perform a number of experiments individually in organic chemistry with an emphasis on individual planning and execution of the experiments (offline). Experiment videos will be provided if students are joining online.

6. Evaluation##:

Component	Duration	Weightage (%)	Date & Time
Laboratory Discussion and Quiz*	TBA	70(Open)	Continuous
Comprehensive Quiz	TBA	30 (Closed)	To be announced

*Quiz will be conducted every day (except the first day) based on the previous experiments

Components may be changed if full-fledged offline classes will start.

7. Make-up policy: Make up will be granted for genuine cases only.

8. Notice: All notices concerning the course will be displayed on **CMS**

9. Academic Honesty and Integrity Policy: Academic honesty and integrity are to be maintained by all the students throughout the semester and no type of academic dishonesty is acceptable.

- 10.** Final grading will be done on the basis of the overall performance of a student in each of the components as listed in item 6. For mid-semester grading, progress made by a student up to that point of time would be evaluated.



Instructor-in-charge