Birla Institute of Technology & Science, Pilani
Hyderabad Campus

SECOND SEMESTER 2020-2021
Course Handout (Part - II)

Date:

16-01-2021

This portion gives specific details regarding the course.

Course Number : **CHEM F242**

Course Title : **Chemical Experimentation-I**

Instructor-in-charge : **Prof D Ramaiah**

Team of Instructors : **Prof Tanmay Chatterjee, Souvik Bhuin, Sravani Kaja, Nilanjana Mukherjee and Rituparna Hazra**

1. **Course Description**: This course is based on laboratory experiments in the field of organic chemistry.
2. **Scope and Objectives:** 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. The students will also carry out single-step and multistep synthesis; and extraction of organic compounds from natural sources. The microwave assisted organic synthesis is also included in this course.
3. **Text Book(s):** Qualitative organic analysis (2nd Indian Edition) by A. I. Vogel. CBS Publishers and Distributors.
4. **Reference Book:** Reference sources for each experiment will be specified as necessary.
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.
6. **Evaluation Mechanism:**

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

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

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** and/or **Chemistry Department** Notice Board.

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. The 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