

School of Chemistry

Aims and Objectives: Session 2023-2024, Semester 1

Module CH4461: Integrating Chemistry

Course Title: Organic Chemistry Problem Solving

Duration: 5 hours

Lecturers: *Members of Organic Teaching Staff*

Convenor: Dr A. S. Gibbs

Aims: To develop a deeper understanding of the fundamentals of organic chemistry by means of the scrutiny of basic observations and ideas. To develop skills in the retrieval, synthesis and use of experimental evidence for the solution of chemical problems.

Objectives:

1. To reinforce fundamental principles for the design of synthetic strategies.
2. To reinforce advanced skills in the mechanistic interpretation of experimental data.
3. To reinforce the understanding of fundamental concepts such as acidity, basicity, electrophilicity and nucleophilicity and their applications in advanced organic chemistry.
4. To reinforce skills in the interpretation of biological organic chemical observations.
5. To reinforce the student's ability to follow, appreciate and understand a modern synthetic route to a target compound that involves many stages.