

Course Title Organic Chemistry

Course Code CH-801

Credit Hours 3-0

Prerequisites Nil

Course Objectives

To provide the students with basic understanding of the main classes of organic compounds focusing on their synthesis, reactivity and physical chemical properties.

Course Outcomes

To enable the students with different specialization to understand Organic Chemistry and to develop critical thinking skills related to the subject, which will be helpful to carryout independent research.

Course Contents

Basic fundamental concepts in organic chemistry: Structure activity relationship, effect of structure on acidity and basicity, chemical reactivity of compounds

Stereochemistry: Configurational and conformational studies.

Reaction mechanism: Substitution and Elimination reactions (SN1, SN2 S_Ni, E2, E1, E1cB)

Recommended Books

1. Michael B Smith "March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure-7th Edition" March, 2013 Wiley
2. Stereochemistry of Organic Compounds 30, 1994 by Ernest L. Eliel (Author), Samuel H. Wilen (Author). Reprint 2014

G.M London "Organic Chemistry" 3rd Ed. Addison Weseley London Company 1995.