

ORGANIC CHEMISTRY (BS-ADP 5th Semester)

Module Code:	Chem-309
Module title:	Organic Chemistry Lab
Name of Scheme:	BS-ADP 5th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 Credit

OBJECTIVES

To develop experimental skills for certain organic reactions, estimation of sugars and detections of functional groups.

SYLLABOUS OUTLINES:

1. **Organic Preparations:**
Benzoic acid from benzaldehyde (Cannizzaro) and from toluene (KMnO₄); ethyl benzene from acetophenone; benzilic acid from benzyl and benzyl from benzoin, Iodoform reaction etc.
2. **Quantitative and Qualitative Analysis of Organic compounds:**
Estimation of glucose, and number of acetyl groups, functional group allocation, etc.

RECOMMENDED BOOKS:

1. The Systematic Identification of Organic Compounds (8th Ed.) by R.L. Shriner et al., Wiley, 2003.
2. Practical Organic Chemistry by F.G. Mann and B.C. Saunders, Longman, UK. 1978.
3. Vogel's Textbook of Practical Organic Chemistry (5th Ed.) by A.I. Vogel et al. Longman, UK, 1989.
4. Advanced Practical Organic Chemistry, by J. Leonard, B. Lygo, G. Procter, CRC. 1994.
5. Advanced Practical Organic Chemistry (2nd Ed.) by N.K. Vishnoi, Vikas Publishing House Pvt. Ltd. India, 1996.