ORGANIC CHEMISTRY (BS-ADP 8th Semester)

Module Code: Chem-458

Module title: Organic Chemistry Lab - I
Name of Scheme: BS-ADP 8th Semester
Department: School of Chemistry

Faculty: Science
Module Type: Compulsory
Module Rating: 1 Credit

OBJECTIVES:

To gain experimental skills for separation, purification by chromatography (TLC, etc) and analysis of different organic compounds by spectroscopy (UV, IR).

SYLLABUS OUTLINES:

Purification and Spectroscopic Identification

Preparation of hydrazones of aromatic aldehydes and ketones and their spectroscopic analysis. Preparation, separation and identification of regio-isomers: *o*-nitrotoluene and *p*-nitrotoluene from toluene; *o*-nitrosophenol and *p*-nitrosophenol from phenol 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.