

**ORGANIC CHEMISTRY (BS-ADP 7<sup>th</sup> Semester)**

<b>Module Code:</b>	<b>Chem-420</b>
<b>Module title:</b>	<b>Organic Chemistry Lab - III</b>
<b>Name of Scheme:</b>	<b>BS-ADP 7<sup>th</sup> Semester</b>
<b>Department:</b>	<b>School of Chemistry</b>
<b>Faculty:</b>	<b>Science</b>
<b>Module Type:</b>	<b>Compulsory</b>
<b>Module Rating:</b>	<b>1 credit</b>

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**OBJECTIVES:**

To gain experimental skills for different organic transformations, workups, separation and identification of products obtained in a multistep synthesis.

**SYLLABUS OUTLINES:**

**1. Multistep Organic Preparations**

Conversion of carboxylic acid to ester, its reduction to alcohol; Conversion of alcohol to alkyl halide and carbonyl compounds; Protection and deprotections; Aniline to 4-nitro- and 4-bromoanilines *via* acetanilide etc

**RECOMMENDED BOOKS:**

1. The Systematic Identification of Organic Compounds (8<sup>th</sup> 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 (5<sup>th</sup> 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 (2<sup>nd</sup> Ed.) by N.K. Vishnoi, Vikas Publishing House Pvt. Ltd. India, 1996.