

**APPLIED CHEMISTRY (BS-ADP 8<sup>th</sup> Semester)**

<b>Module Code:</b>	<b>Chem-472</b>
<b>Module title:</b>	<b>Applied Chemistry Lab - I</b>
<b>Name of Scheme:</b>	<b>BS-ADP 8<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>1credit</b>

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**OBJECTIVES**

Students will apply their knowledge to synthesize and depolymerize the important polymers. Also will learn about the characterization of Oils and Fats

**SYLLABUS OUTLINE:**

Depolymerization of PET and Polyethene  
Determination of Acid Value, Saponification Value, Ester value and iodine value of oils.  
Preparation of Urea Formaldehyde, Phenol formaldehyde resins.

**RECOMMENDED BOOKS:**

1. Applied Chemistry, Haq Nawaz Bhatti and Muhammad Salman, 2017, Caravan Book Publisher, Pakistan.
2. Industrial chemistry, B. K. Sharma, Krishna Prakashan Media (P) Ltd., Ed-15 (2006).
3. An Introduction to Polymer Chemistry, W.R.Moor, London Press, London.
4. Principles of Polymer Systems, Rodri-Guez, McGraw Hill Book Co. New York.
5. Modern Technology of Plastics and Polymer Processing Industries, NIIR Board