ANALYTICAL CHEMISTRY (BS-ADP 8thSemester)

Module Code:	Chem-467
Module title:	Analytical Chemistry Lab – II
Name of Scheme:	BS-ADP 8 th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES:

This course in about the advanced spectroscopic techniques. The students will learn the advanced structural elucidation techniques. They will be able to determine the structure of various molecules on the basis of their NMR and mass spectrometric data.

SYLLABUS OUTLINE:

- Determination of Chemical Shift values for protons in Ethanol
- Elucidation of ¹H NMR spectrum of Acetone, Ethanol, Benzoic acid, acetaminophen
- Determination of coupling constant in 1H NMR spectra
- Determination of isomers based on their 1H NMR spectra
- Structure Elucidation of poly aromatic hydrocarbons (PAH) by GC-MS.
- Identification of haloacetic acid (HAA) by using GC-MS

RECOMMENDED BOOKS:

- 1. Analytical chemistry by Kellner, J.M. Mermet, Wiley-VCH Verlag GmbH & Co. KGaA.
- 2. A text book of analytical chemistry by Y-Anjaneyulu, K-chamdare khar, ValiManickam, Pharma book syndicate.