

PHYSICAL CHEMISTRY (BS-ADP 6th Semester)

Module Code:	Chem-321
Module title:	Physical Chemistry Lab
Name of Scheme:	BS-ADP 6th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES

The course will be helpful for students in basic understanding of various physical methods of analysis like refractometry, cryoscopy, spectrophotometry and polarimetry.

SYLLABUS OUTLINES

1. Determination of the percentage composition of a binary solution by refractometry.
2. Determination of the molar mass of a substance by cryoscopic method.
3. Determination of concentration of given colored solution using spectrophotometer.
4. Determination of the eutectic point of a binary mixture (Naphthalene and diphenyl, urea and phenol, benzoic acid and naphthalene) system.
5. Determination of percentage composition of a solution of an optically active substance (Sucrose, glucose).

RECOMMENDED BOOKS

1. Advanced Experimental Physical Chemistry by Ayodhya Sing.
2. Experimental Physical Chemistry by Daniel
3. Experimental Physical Chemistry by G.Peter Matthews.
4. Experiments in Physical Chemistry by Shoemaker.