

PHYSICAL CHEMISTRY (BS-ADP 8thSemester)

Module Code:	Chem-447
Module title:	Photochemistry
Name of Scheme:	BS-ADP 8thSemester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	2 credits

OBJECTIVES

Students will be able to learn fundamentals and applications of photochemistry in this course.

SYLLABUS OUTLINES

Laws of photochemistry, quantum efficiency and its determination, Photochemical reactions, excited state symbols; photosensitized reactions, phosphorescence, fluorescence, chemiluminescence, Lasers.

RECOMMENDED BOOKS

1. Mukherjee, K.K.R., Fundamentals of Photochemistry, Revised Ed., New Age International (P) limited, Publishers, New Delhi, (2000).
2. Molecular spectroscopy by KV Raman, R Gopalan, P S Raghavan, Vijay Nicole imprints Ltd. 2004.
3. Physical Chemistry by Kundu, N and Jain, S.K.S. Chand and Company Ltd. 1984.
4. Physical chemistry by Atkins, P.W. 5th Ed., W.H.Freeman and Company, New York, 1994.
5. Physical Chemistry by Alberty, R.A. and Silbey. R.J., John Wiley, New York, 1995.
6. Physical chemistry by Engel, T. and Ried, P., 1st Ed., Pearson Education, Inc. 2006.
7. Bhatti, H. N. and Farooqi, Z. H., Modern Physical Chemistry, Revised ed., Caravan Book House, (2014).