ORGANIC CHEMISTRY (BS-ADP 8th Semester)

Module Code:	**Chem-461**
Module title:	**Heterocyclic Chemistry**
Name of Scheme:	**BS-ADP 8th Semester**
Department:	**School of Chemistry**
Faculty:	**Science**
Module Type:	**Compulsory**
Module Rating:	**2 Credits**

OBJECTIVES:

To develop basic understanding about methods of preparation, reactions and applications of different types of heterocyclic compounds.

SYLLABUS OUTLINES:

1. Heterocyclic Chemistry

Five and six membered aromatic and aliphatic heterocyclic compounds with one and more identical hetero-atoms, five and six membered heterocycles with two different hetero-atoms. Their syntheses and reactions

RECOMMENDED BOOKS:

1. Organic Chemistry, Vol. I (6th Ed.) and II (5th Ed.) by I.L. Finar, Pearson Education (Singapore) Pvt. Ltd. 2008.
2. March's Advance Organic Chemistry: Reactions, Mechanisms and Structures. (6th Ed.) by M.B. Smith and J. March, Wiley, 2007.
3. Organic Chemistry, (5th Ed.) by S.H. Pine, McGraw Hill, New York, USA, 1987.
4. Organic Chemistry, (6th Ed.) by Francis A. Carey, McGraw Hill, USA, 2005.
5. Organic Chemistry, (6th Ed.) by R.T. Morrison, R.N. Boyd and R.K. Boyd, Benjamin Cummings, 1992.
6. Organic Chemistry, by Jonathan Clayden, Nick Greeves and Stuart Warren, Oxford University Press, 2000.
7. Organic Synthesis, The disconnection approach, Stuart Warren, John Willey and Sons 1993; and work book be same 1994.
8. Designing Organic Synthesis, A Programmed Introduction to synthon approach, S. Warren, John Willey and Son, 1992.
9. Guide book to Organic Syntheses, R. K. Mackie, D. M. Smith, Longman Group Limited, 1982.