



<b>Pharmaceutical Organic Chemistry</b>	
<b>Title:</b> Pharmaceutical Organic Chemistry	
<b>Subject Code:</b> 221 PHC	
<b>Semester:</b> Third Semester (Second Year).	
<b>Duration:</b> 2 + 1 Units (5 contact hours) per week.	
<b>Aims:</b> To provide general knowledge on the chemistry of organic compounds, heterocyclic compounds, aromatic compounds, carbohydrates, lipids and proteins.	
<b>Objectives:</b> At the end of the course the student should understand the chemistry of organic compounds, heterocyclic compounds, aromatic compounds, carbohydrates lipids and proteins.	
<b>Contents:</b>	
<b>Lectures:</b> Aromaticity and benzene, substituted benzene, aldehydes and ketones, carboxylic acids and derivatives (amides, anhydrides, esters), heterocyclic compounds, amino acids, carbohydrates, and lipids chemistry.	
<b>Practical:</b> Identification of different classes of organic compounds from the above mentioned groups based on differences in their physicochemical properties.	
<b>Minimum course requirements:</b> 30 (2 x 15) Unit lectures and 45 practical hours (3 x 15) per level.	
<b>Evaluation methods:</b>	
-Quizzes	10%
- Mid term examination	25%
- Practical examinations	25%
- Final examination (written)	40%



**Text Books (latest editions):**

- 1- Organic Chemistry, Fessenden and Fessenden, Brooks/Cole publishing Co. Monterey, California.
- 2- Spectrometric Identification of Organic Compounds, Robert M. Silverstein.

**Recommended books (latest editions):**

- 1- Organic Chemistry, T.W.G. Solomons.
- 2- Vogel's Textbook of Organic Chemistry, Braian S. Furson, latest edition.
- 3- Organic Chemistry, I. L. Finar.
- 4- Organic Chemistry, Herbert Meishlish.
- 5- Fundamentals of Organic Chemistry, John Mc Murrey.
- 6- Heterocyclic Chemistry, T.L. Gilchart.
- 7- Stereochemistry of Organic Compounds, Nasipuri.