Fall semester	
Pharmaceutical Organic chemistry III	
Course code	PC 306
Programme(s) on which the course is given:	Bachelor of pharmacy - PharmD Program
Academic year:	Level 2 – First semester
Contact hours (credit hours):	Lecture: 2 (2), Practical: 2 (1), Total: 4(2+1)

Overall aims of this course:

After attending this course, the students would be able to:

- Independently using the different spectroscopic methods to elucidate the structures of organic compounds.
- Understanding of heterocyclic compounds: Nomenclature, physical properties, synthetic methods, chemical reactions and their mechanism and application in pharmaceutical chemistry.
- Synthesize small drugs and organic heterocyclic compounds with the help of instructors, compounds purification and yield calculation.

- This course involves: carbohydrates, amino acid & peptides, polynuclear compounds, and heterocyclic chemistry. In addition, it provides an introduction to the use of different spectroscopic tools for the structural elucidation of organic compounds; including, infrared (IR), nuclear magnetic resonance (NMR) and mass spectrometry (MS).