

**Faculty of Pharmaceutical Sciences & Pharmaceutical  
Industries**

**Structural Elucidation of Organic Compounds**

**Information :**

**Course Code :** PHC 216

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Faculty of Pharmaceutical Sciences & Pharmaceutical Industries

**Instructor Information :**

Title	Name	Office hours
Professor	Khairia Mohamed Ahmed Youssef	6
Professor	Manal Moustafa Hassan Kandeel	5
Professor	Hanan Mohamed Refaat Khalil Elaasi	9
Professor	Nasser Saad Mohamed Ismail	3
Lecturer	Iten Mamdouh Fawzy Abdelmotaleb	4
Assistant Lecturer	MENNATALLAH ATEF SAAD ALY EWIDA	
Assistant Lecturer	Yomna Ibrahim Hassan El Gazzar	
Teaching Assistant	Haitham Abbas Ali El Fiky	
Teaching Assistant	Arwa Mohamed AbdEltawab Mohamed Bahgat	
Teaching Assistant	Laila Khaled Mohamed Elghonemy Omarah Ayad	
Teaching Assistant	Aya Salah Mohamed Fatthala El Soudy	
Teaching Assistant	Dina Yousry Mohamed Kamel El Ansary	

**Description :**

This course includes three main concepts; Pharmaceutical Spectroscopic Determinations: course which aims to cover the basics of spectroscopy and elucidation of chemical structures. After attending the lectures and tutorials the students will be capable of independently using the different spectroscopic methods to elucidate the structures of organic compounds, he could solve the spectroscopic problems for organic compounds with the help of his instructors. The practical course is designed to expose the student to the interpretation of various spectroscopic charts and its correlation with structure. The other concept will cover a basic introduction to cheminformatics including chemdraw and molecular docking. The practical course is designed to expose the student to practice basic application of cheminformatics. The course also aims at giving students detailed knowledge about Stereo-chemical compounds. The course ensures that the students has and understand the skills to know the spatial (three-dimensional) structure of organic compounds. and basic knowledge of Stereochemistry. The course also aims at giving students detailed knowledge about the reactions of stereo-chemical compounds with biological receptors.

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**Books :**

Book	Author	Publisher
Organic Chemistry	Francis A. Carey	McGraw Hill