

**Faculty of Pharmacy**

**Medicinal Chemistry I**

**Information :**

**Course Code :** PC 507

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Pharm D

**Instructor Information :**

| Title               | Name   | Office hours |
|---------------------|--|--------------|
| Professor           | Nasser Saad Mohamed Ismail                     | 1            |
| Associate Professor | ASMAA ABDELKERIM MANDOUR KHADR                 | 2            |
| Lecturer            | MENNATALLAH ATEF SAAD ALY EWIDA                | 1            |
| Teaching Assistant  | Aya Reda Aly Mohamed                           |              |
| Teaching Assistant  | Nour elhouda Mohamed Nagieb Mohamed Abdelhamed |              |
| Researcher          | J J Keating .                                  |              |

**Area Of Study :**

The course includes the study of chemical structures, nomenclatures, interactions with the receptor binding sites (mechanism of action), structure activity relationships, synthesis and metabolic pathways of different chemical classes of various medicinal active agents which includes: Antibiotics, Anti-infective, Anthelmintics, Antifungal drugs, and others Chemotherapeutic agents. Finally, various Anticancer therapies, and related drugs are also covered. The practical course is designed to expose the students to various synthetic and purification techniques in medicinal chemistry and methods of determination of drug substance, dosage forms and purity tests

**Description :**

The course includes the study of chemical structures, nomenclatures, interactions with the receptor binding sites (mechanism of action), structure activity relationships, synthesis and metabolic pathways of different chemical classes of various medicinal active agents which includes: Antibiotics, Anti-infective, Anthelmintics, Antifungal drugs, and others Chemotherapeutic agents. Finally, various Anticancer therapies, and related drugs are also covered. The practical course is designed to expose the students to various synthetic and purification techniques in medicinal chemistry and methods of determination of drug substance, dosage forms and purity tests