

Faculty of Pharmacy

Pharmaceutical Analytical Chemistry I

Information :

Course Code : PC 101

Level : Undergraduate

Course Hours : 3.00- Hours

Department : Faculty of Pharmacy

Instructor Information :

| Title | Name | Office hours |
|--------------------|--|--------------|
| Professor | Hayam Mahmoud Lotfy Ibrahim Mahmoud | 5 |
| Lecturer | DINA ABBAS AHMED MOSTAFA | 2 |
| Lecturer | Sara Abdel Rsheed Mohamed Mohamed Elhanboushy | 2 |
| Assistant Lecturer | EMAN MOHAMED FARAG MAHMOUD MORGAN | |
| Assistant Lecturer | Soad Emad Abo El Hoda Ibrahim | |
| Assistant Lecturer | MARYAM AHMED ABDELRAOUF BAKR | |
| Assistant Lecturer | MONA NABIL MOHAMED HASSAN | |
| Assistant Lecturer | Ola Gamal Hussein Farrag | |
| Teaching Assistant | Aya Mostafa Mahmoud Ghareeb | |
| Teaching Assistant | Nour elhouda Mohamed Nagieb Mohamed Abdelhamed | |
| Teaching Assistant | Nourhan Hossam Mohamed Elsadek Elwan | |

Description :

This course includes basic information about qualitative inorganic analysis, such as different types of solutions, law of mass action, chemical equilibrium, equilibrium constants [e.g. Ionic product of water (K_W), acidity constant (K_a), basicity constant (K_b), solubility product constant (K_{SP}), instability constant (K_{INST})], Le Chatelier principle, common ion effect, buffer solutions and amphoteric metals. Types of chemical reactions [e.g. neutralization, precipitation, complexation and redox reactions]. How to write and balance different types of chemical equations. Systematic examination of individual ion (cation or anion) through chemical tests and how to carry out systematic separation and identification of their mixtures.