

## 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.