

**Faculty of Pharmaceutical Sciences & Pharmaceutical  
Industries**

**Clinical biochemistry**

**Information :**

**Course Code :** PHL 453

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

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

**Instructor Information :**

Title	Name	Office hours
Associate Professor	Marwa Ismail Abdellatif Abou Shabayek	3
Lecturer	HEBATOLLAH ATEF SAAD ALI EWIDA	3
Assistant Lecturer	Samar Hussein Ibrahim Mohamed	
Assistant Lecturer	Sara Faisal Abdelaal Ahmed Haridy	4

**Description :**

This course is dealing with the study of biochemical changes occurring in the human body under pathological conditions. Disorders in carbohydrate, lipid, protein and mineral metabolism as well as endocrine and acid base balance equilibrium are assessed by using laboratory data. Laboratory work deals with evaluation of biological constituents of the blood and urine in pathological cases.