

**Faculty of Pharmacy**

**Biopharmaceutics and Pharmacokinetics**

**Information :**

**Course Code :** PT 707

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Pharm D

**Instructor Information :**

| Title               | Name                                   | Office hours |
|---------------------|--|--------------|
| Professor           | Ehab Rasmy Bendas Wasef                | 1            |
| Associate Professor | NADA MOHAMED ALI ANWAR MOHAMED ELHOFFY | 2            |
| Lecturer            | Enas EIMaghawry Ibrahim Said           |              |
| Assistant Lecturer  | Aya Hussein Sayed Metwally Hassanein   |              |
| Teaching Assistant  | Nada Hesham Abdelsamie Mohamed Afify   |              |

**Area Of Study :**

This course aims to provide students with an understanding of the relation between the physicochemical properties of the drug and its fate in the body. The course explores the principles of biopharmaceutics and strategies for enhancing bioavailability. Students will also be introduced to the principles of pharmacokinetics (absorption, distribution, metabolism and elimination). The concepts of bioequivalence, biowaivers and in vitro-in vivo correlations (IVIVC's) will be discussed along with different models of drug disposition. The course prepares students for their evolving role in utilizing pharmacokinetics to guide formulation, dosage-regimen design and optimizing drug usage.

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