

**Faculty of Pharmacy**  
**Pharmaceutical Microbiology**

**Information :**

**Course Code :** PM 502

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Pharm D

**Instructor Information :**

| Title               | Name                           | Office hours |
|---------------------|--------------------------------|--------------|
| Associate Professor | MARWA ALI MOHAMED TAMMAM       | 1            |
| Lecturer            | Sara Ahmed Zahran Mohamed Awad |              |
| Assistant Lecturer  | Nada Anwar Abdelrazek Hegazy   |              |
| Assistant Lecturer  | Amr Ali Abass Ahmed Hemed      |              |

**Description :**

This course describes in detail the physical and chemical methods for effective control of microbial growth in the field of pharmaceutical industry / hospitals. It includes different methods of sterilization, and validation of sterilization process. The course addresses classes and modes of action of chemotherapeutic agents and non-antibiotics antimicrobial agents including the new approaches to overcome bacterial resistance. The course includes microbiological evaluation of antibiotics and non- antibiotics. Laboratory procedures such enumeration and identification of microbial contaminants in commercial pharmaceutical products, sterility test and evaluation of antimicrobial effectiveness are also covered.