

Faculty of Pharmaceutical Sciences & Pharmaceutical Industries

Basic and Pharmaceutical Microbiology

Information :

Course Code : PMI 312

Level : Undergraduate

Course Hours : 4.00- Hours

Department : Faculty of Pharmaceutical Sciences & Pharmaceutical Industries

Instructor Information :

Title	Name	Office hours
Professor	Amal Emadeldin Ali Mohamed	4
Lecturer	Marwa Ali Mohamed Tammam	10
Lecturer	Sara Ahmed Zahran Mohamed Awad	6
Assistant Lecturer	Amr Ali Abass Ahmed Hemeda	5
Assistant Lecturer	Nada Anwar Abdelrazek Hegazy	4
Teaching Assistant	Alaa Atef Fawzy Hassan	
Teaching Assistant	Christina Filmon Ramzy Hanna	
Teaching Assistant	Eman Abdel Baset Mohamed Mohamed	3
Teaching Assistant	Arwa Mohamed AbdEltawab Mohamed Bahgat	5
Teaching Assistant	AYA YASSER ALI MOHAMED ALI	5
Teaching Assistant	Aya Mostafa Mahmoud Ghareeb	5

Description :

The course covers the fundamental aspects of microbiology including: taxonomy, structure, physiology, growth, reproduction and genetics. Basic techniques for culturing, staining, counting and identifying microorganisms are emphasized in the laboratory. The course will emphasize physical and chemical methods of control such as heat, radiation, and chemical sterilization. Classes and modes of action of chemotherapeutic agents and non antibiotics antimicrobial agents will be addressed. The course will also cover the mechanisms of development of resistance with emphasis on the biochemical and genetic basis of resistance; plasmids, transposons and inversion sequences as related to drug resistance. The course includes also the concepts of Microbial Quality Control and Quality Assurance as they apply to the pharmaceutical industry, laboratory procedures such as aseptic technique, enumeration and identification of micro-organisms from commercial products. Evaluation of antimicrobial effectiveness of disinfectants, preservatives and antibiotics, also vitamins assays.

