



Course Code PHAR-366	Course Title Pharmacology and Therapeutics II/Φαρμακολογία και Θεραπευτική II	Credits (ECTS) 6
Department Life & Health Sciences	Semester Spring	Prerequisites PHAR-215, PHAR-120
Type of Course Required	Field Pharmacy	Language of Instruction Greek/English
Level of Course 1 st Cycle	Year of Study 3 rd year	Lecturer Maria Mastorikou/ Zacharia Lefteris
Mode of Delivery face-to-face	Work Placement N/A	Co-requisites None

Objectives of the Course:

The aims of this module are to enable students to:

- gain a knowledge of the principles of pharmacological action of drugs, and fate of drugs in the body
- understand the basis of therapeutic actions of drugs in a number of specific disease areas
- Understand how antagonizing or activating a receptor or channel brings about a therapeutic effect

Learning Outcomes:

Students are expected to develop a solid understanding of the principles by which drugs produce effects in the human system. As such, they will:

- Understand fundamental principles of drug action
- Understand the mechanism of action of each of the major classes of drugs at the molecular/cellular and organ/organ system level.
- Use their knowledge of drug mechanisms of action to predict therapeutic and adverse effects.
- Know common side effects associated with major classes of drugs and their implications for patient management.
- Develop critical thinking skills in which they apply knowledge of drug action to the pharmacotherapeutic management of disease.
- Know the possible or prospective therapeutic application of a compound based on the general understanding of how specific agonists or antagonists bring about a therapeutic effect.

Course Contents:

- Drugs Affecting the Central Nervous System
 - Neurodegenerative Diseases
 - Anxiolytic & Hypnotic Drugs
 - CNS Stimulants
 - Anesthetics
 - Antidepressants
 - Neuroleptics
 - Opioids
 - Epilepsy

- Chemotherapeutic Drugs
 - Principles of Anti-microbial Therapy
 - Cell Wall Inhibitors
 - Protein Synthesis Inhibitors
 - Quinolones, Folic Acid Antagonists & Urinary Tract Antiseptics
 - Antimycobacterials
 - Antifungal Drugs
 - Antiprotozoal Drugs
 - Anthelmintic Drugs
 - Antiviral Drugs
 - Anticancer Drugs
 - Immunosuppressants

- Anti-inflammatory Drugs & Autacoids
 - Anti-inflammatory Drugs
 - Autacoids & Autacoid Antagonists

Learning Assessment and Teaching Methods:

Lectures, class discussion, assignments

Assessment Methods:

Course work, final exam

Required Textbooks/Reading:**Required Textbooks/Reading:**

Authors	Title	Publisher	Year	ISBN
R. A. HARVEY, P. C. CHAMPE	Pharmacology/ Φαρμακολογία	Lippincott Williams & Wilkins/ Επιστημονικές Εκδόσεις ΠΑΡΙΣΙΑΝΟΥ Α.Ε		

Recommended Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
RANG, DALE, RITTER, MOORE	Pharmacology/ Φαρμακολογία	Churchill Livingstone Elsevier/ Επιστημονικές Εκδόσεις ΠΑΡΙΣΙΑΝΟΥ Α.Ε		