UNIVERSITY of NICOSIA

Course Syllabus

Course Code	Course Title	ECTS Credits
IMPH-366	Pharmacology and Therapeutics II/ Φαρμακολογία και Θεραπευτική ΙΙ	6
Prerequisites	**Department**	**Semester**
IMPH-215	Health Sciences	Fall/Spring
Type of Course	**Field**	**Language of Instruction**
Compulsory	Pharmacy	Greek/English
Level of Course	**Lecturer(s)**	**Year of Study**
1st Cycle	Dr Zacharia Lefteris	3rd
Mode of Delivery	**Work Placement**	**Corequisites**
Face-to-Face	N/A	N/A

Course Objectives:

The main objectives of the course are to:

- gain knowledge of the principles of pharmacological action of drugs, and fate of drugs in the body
- understand the basis of the mode of action of drugs in different disease states

Learning Outcomes:

After completion of the course students are expected to be able to:

1. Identify the basis by which drugs bring about a therapeutic effect in man
2. Classify fundamental principles of drug action, including basic pharmacokinetics and pharmacodynamics
3. Define and describe the therapeutic uses and routes of administration of the major classes of drugs
4. Specify and examine the mechanism of action of each of the major classes of drugs at the molecular/cellular and organ/organ system level
5. Apply the knowledge of drug mechanisms of action to predict therapeutic and adverse effects
6. Name common side effects associated with major classes of drugs and their implications for patient management
7. Develop critical thinking skills in which they apply knowledge of drug action to the pharmacotherapeutic management of disease

Course Content:

1. **Drugs affecting the Central Nervous System**
   - Neurodegenerative Diseases
   - Anxiolytic & Hypnotic Drugs
   - CNS Stimulants
   - Anesthetics
   - Antidepressants
   - Neuroleptics
   - Opioids
   - Epilepsis
   - Pharmacology and uses of Cannabis

2. **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

3. **Anti-inflammatory Drugs**
   - NSAIDS Anti-inflammatory Drugs
   - Drugs used for rheumatic diseases

Learning Activities and Teaching Methods:

Lectures, class discussion, assignments

Assessment Methods:

Final exam, Midterm exam, assignment

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
Pharmacology 7th ed./	R. A. HARVEY, P. C. CHAMPE	Lippincott Williams & Wilkins/	2018	9781469887562 EN 978-1496384133

Recommended Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
Pharmacology 9th edition	RANG, DALE, RITTER, MOORE	Churchill Livingstone Elsevier/	2019	9780702074479