



Course Syllabus

Course Code	Course Title	ECTS Credits
PHAR-435E	Κλινική Φαρμακευτική /Clinical Pharmacy	5
Prerequisites	Department	Semester
PHAR-365E, PHAR-366E	Life and Health Sciences	Fall/Spring
Type of Course	Field	Language of Instruction
Compulsory	Pharmacy	Greek/English
Level of Course	Lecturer(s)	Year of Study
1 st Cycle	Dr Peletidi Alikí	4
Mode of Delivery	Work Placement	Corequisites
Face-to-Face	N/A	N/A

Course Objectives:

The main objectives of the course are to:

- Enable students to utilize evidence-based guidelines to safely, legally and ethically prescribe, and administer, an agreed list of medicines and to meet in part the requirements for non-medical prescriber status
- Familiarize participants with the concept of clinical pharmacy
- Familiarize participants with the factors to consider in setting up a clinical pharmacy service
- Provide an example of an implemented clinical pharmacy service
- Provide resources to health care workers to assist health care delivery
- Prepare the Pharmacy students to assist and collaborate with the medical doctor in the hospital.
- Solve problems of pharmacotherapy, setting the therapeutic scheme, drug doses, drug interactions. Further, the determination of drugs and their main metabolites in biological fluids.

Learning Outcomes:

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

- List and describe all the required steps in order to take a medical/drug history
- Understand pharmacodynamic and pharmacokinetics considerations in prescribing
- Describe the effect of individual differences in physiology on drug responses
- Recognize adverse drug reactions and interactions, and implement the reporting procedures associated with these in order to minimise the occurrence of undesirable effects in clinical practice

- Determine the drugs and their main metabolites in biological fluids;
- Know fairly well (pharmaco)therapeutics and decision making concerning therapeutic schemes and doses, which could be suggested by the physician;
- Outline the pharmacotherapy given in vulnerable groups (elderly, pregnancy, diabetes patients, cardiac, hepatic, renal failure) with focus on age, sex, race, body weight, diet, pregnancy, lactation
- Apply their acquired clinical knowledge to improve patients' wellbeing and their quality of life by dispensing effective and cost-effective treatment
- Apply and evaluate the guidelines such as NICE, SIGN, ESC to make appropriate decisions on patients' drug treatment

Course Content:

- Introduction to Clinical Pharmacy
- Important Disorders of Organ Systems and their Clinical Management
- How to take a Medical/Drug history / Introduction to Guidelines / British National Formulary (BNF)
- Drug Delivery Systems and their Biopharmaceutic & Therapeutic Considerations
- Therapeutic monitoring of drugs (TDM-Phenytoin, Theophylline, Lithium, Digoxin)
- Drug used during Infancy and in the Elderly (Paediatrics & Geriatrics)
- Drug use during Pregnancy
- The Basics of Drug Interactions
- Drug interactions and side-effects of the key drugs used in clinical pharmacy (hospital settings)
- Identification and Management of Hypertension, Asthma, Diabetes Mellitus, Stroke, Heart Failure, Parkinson's Disease (NICE GUIDELINES + ESC)
- Concept of Essential Drugs and Rational Drug use

Learning Activities and Teaching Methods:

Lectures, Groups discussion, scenario-based learning

Assessment Methods:

Final Exam, Clinical-based scenario

Required Textbooks / Readings:

Title	Author(s)	Publisher	Year	ISBN
British National Formulary 74 (BNF)	Joint Formulary Committee	Pharmaceutical Press	2017	9780857112989

Clinical Pharmacy and Therapeutics	Rogers	Churchill Livingstone ELSEVIER	2011	9780702048487 (eBook)
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