



Course Code PHAR-410	Course Title Clinical Pharmacy/Κλινική Φαρμακευτική	Credits (ECTS) 6
Department Life & Health Sciences	Semester Spring	Prerequisites PHAR-390
Type of Course Required	Field Pharmacy	Language of Instruction Greek/English
Level of Course 1 st Cycle	Year of Study 4 th year	Lecturer 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 utilise 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.

The aims of this module are to:

- Familiarise participants with the concept of clinical pharmacy
- Familiarise 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
- To 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:

- critically examine and analyse pharmacodynamic and pharmacokinetics considerations in prescribing
- critically evaluate the effect of individual differences in physiology on drug responses
- recognise adverse drug reactions and interactions, and implement the reporting procedures associated with these
- 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;

- Know the role, which sometimes is important, of age, sex, race, body weight, diet, pregnancy, lactation and various disease conditions;
- Know the importance and dangers of multidrug therapies;
- Determine important pharmacokinetic parameters of drugs, e.g. C_{max} , $t_{1/2}$, AUC).

Course Contents:

- Introduction to Clinical Pharmacy.
- Important Disorders of Organ Systems and their Clinical Management :
- Clinical Pharmacokinetics and individualization of Drug Therapy
- Drug Delivery Systems and their Biopharmaceutic & Therapeutic
- Coinsiderations.
- Drug used during Infancy and in the Elderly (Paediatrics & Geriatrics)
- Drug use during Pregnancy
- Drug induced Diseases
- The Basics of Drug Interactions
- General Principles of Clinical Toxicology
- Interpretation of Clinical Laboratory Tests.
- Therapeutic Drug Monitoring
- Concept of Essential Drugs and Rational Drug use.

Learning Activities and Teaching Methods:

Lectures, class discussion, assignments

Assessment Methods:

Exams, coursework

Required Textbooks/Reading:

Authors	Title	Publisher	Year	ISBN
Laurence L. Brunton, Bruce A. Chabner, Björn C. Knollmann	Goodman and Gilman's Manual of Pharmacology and Therapeutics	Editor-in-Chief: Laurence L. Brunton		