



UNIVERSITY OF
PATRAS
ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ

DEPARTMENT OF PHARMACY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY OF PATRAS
SCHOOL OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
UNDERGRADUATE STUDIES' COURSES



COURSE DESCRIPTION: **CLINICAL PHARMACY**
COURSE CODE: **PHA-D11-NEW**

**CLINICAL PHARMACY
COURSE DESCRIPTION**

1. GENERAL

SCHOOL	HEALTH SCIENCES		
SEPARTMENT	PHARMACY		
LEVEL OF COURSE	UNDERGRADUATE		
COURSE CODE	PHA-D11-NEW	SEMESTER OF STUDIES	7th
COURSE TITLE	CLINICAL PHARMACY		
INDEPENDENT TEACHING ACTIVITIES	TEACHING HOURS PER WEEK	ECTS CREDITS	
Lectures	3	6	
COURSE TYPE	Scientific Field course		
PREREQUISITE COURSES:	-		
TEACHING AND ASSESSMENT LANGUAGE:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Not offered		
COURSE WEBPAGE (URL)	http://www.pharmacy.upatras.gr/images/DS/PHA-D11-EN.pdf		

2. LEARNING OUTCOMES

Learning Outcomes
<p>The Learning Outcomes of this course corresponding to Level 7, comprise the following:</p> <ul style="list-style-type: none"> • Highly specialized knowledge, some of it cutting-edge in the field of Clinical Pharmacy, as a base for innovative thinking and research • Critical understanding of the knowledge status in this particular field and its interrelationship with other fields • Specialized skills for problem-solving, necessary in research and/or in innovation, in order to generate novel knowledge and processes • Management and evolution in changing, unpredictable and complex work environments, requiring novel strategic approaches • Responsibility for contributing to the enrichment of professional knowledge and practice in the field <p>Specifically, following this course:</p> <ul style="list-style-type: none"> • Students will learn and understand the field of Clinical Pharmacy, namely the connection of the clinical picture and the laboratory results of the patients, with the appropriate pharmacotherapy, from the stage of research and development of the drugs to the stage of normal clinical use. This knowledge is also transferred by clinical and laboratory physicians at the University Hospital of Patras (Rio) who are aware of and keep abreast of modern developments at the cutting edge of their field of knowledge. • At the end of the course, students are able to use the knowledge and understanding they have gained so that they can in the future (in their professional rehabilitation) approach the Clinic Pharmacist's role (profession) much better.

- Students are also able to recognize the great importance of the collaboration of pharmacists, clinicians, laboratory and nursing staff with the aim of optimally treating each patient.
- Students understand pathology, explain symptoms, combine information and eventually suggest treatment.
- Finally, students acquire sufficient knowledge to enable them to undertake postgraduate studies in related fields such as Clinical Pharmacy, Pharmacology, Toxicology.

General Abilities

- Searching, analysis and synthesis of facts and information, as well as using the necessary technologies
- Decision making
- Working in a multidisciplinary environment

3. COURSE CONTENT

- Endocrine Disorders (Thyroid-Diabetes)
- Cardiovascular Diseases (Hypertension, Congestive Heart Failure, Myocardial infarction)
- Rheumatic diseases
- Neurological diseases
- Gene Therapy in the Central Nervous System
- Treatment of chronic pain
- Gastrointestinal and liver diseases
- Renal diseases
- Infectious diseases
- Oncology
- Hematology
- Reproduction, reproductive disorders, contraception
- Specific age groups
- Medical Imaging
- Applications of Biotechnology in Clinical Practice
- Pharmacogenomic and Pharmacotherapy
- Laboratory analysis and clinical practice
- Eye diseases
- Anaphylaxis and Allergies
- Dermatological problems
- Substances abuse
- Drug Interactions
- Drug research and development
- Good Clinical Laboratory Practice
- Clinical drug research

4. TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching method	Lectures, work face to face
Use of information and communication technologies	Through a web site of the Department of Pharmacy and e-class platform

Teaching organization	Teaching Method	Semester Workload
	Lectures and seminars by clinical and laboratory physicians at the University Hospital of Patras (Rio)	39
	Autonomous study	111
	Total number of hours for the Course (25 hours of work-load per ECTS credit)	150
STUDENT ASSESSMENT	Written examination at the end of the courses including topic development and answers to multiple choice questions.	

5. RECOMMENDED LITERATURE

Suggested Books:

1. Βιβλίο [12831664]: Lecture Notes Κλινική Φαρμακολογία και Θεραπευτική, GERARD A. MCKAY, JOHN L. REID, MATTHEW R. WALTERS [Λεπτομέρειες]
2. Βιβλίο [41691]: Φαρμακοθεραπεία. Κλινική φαρμακολογία, G. FULGRAFF, D. PALM [Λεπτομέρειες]