



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: **PHARMACOLOGY II**
COURSE CODE: **PHA-C24-NEW**

**PHARMACOLOGY II
COURSE DESCRIPTION**

1. GENERAL

SCHOOL	HEALTH SCIENCES		
SEPARTMENT	PHARMACY		
LEVEL OF COURSE	UNDERGRADUATE		
COURSE CODE	PHA-C24-NEW	SEMESTER OF STUDIES	6th
COURSE TITLE	PHARMACOLOGY II		
	INDEPENDENT TEACHING ACTIVITIES	TEACHING HOURS PER WEEK	ECTS CREDITS
	Lectures	4	5
	Tutorials	1	
COURSE TYPE	Scientific field: Pharmacology Development of Analytical and Synthetic Knowledge and Skills		
PREREQUISITE COURSES:	-		
TEACHING AND ASSESSMENT LANGUAGE:	Greek		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes [Instructed/Guided self study in english for Erasmus+ Students]		
COURSE WEBPAGE (URL)	http://www.pharmacy.upatras.gr/images/DS/PHA-C24-EN.pdf		

2. LEARNING OUTCOMES

Learning Outcomes
<p>In general, this class ambitions to facilitate the acquisition of knowledge, skills and capabilities at the level 6 of the European Framework of Skills of Lifelong Learning. Upon completion, it aims to provide students with the following:</p> <ol style="list-style-type: none"> 1. Acquire a demonstrable knowledge and understanding of the knowledge area of Pharmacology and of Drug Action in humans, supported by using textbooks of advanced level and by additional data derived from recent developments at the forefront of this field. 2. Understand the chemical cellular and physiological functional basis of therapeutic activity as well as of side effects. 3. Be able to use the understanding and knowledge acquired in a manner showing a professional approach, based on analytical and synthetic inductive use of the data provided, in combination with other areas of knowledge to which they are exposed during their studies (e.g. Physiology, Biochemistry). 4. Be able to synthesize and communicate information and advice on problems related to the use and activity of drugs. 5. Be able to approach complex novel problems related to pathophysiological situations and propose the right therapeutic (pharmacological) treatment and use of drugs. 6. Students are expected to develop the skills and knowledge needed to continue in more advanced studies with a high degree of autonomy.

General Abilities

- Search, analyze and synthesize data and information, using the appropriate technology tools
- Adapt to new situations
- Decision- making
- Independent work
- Group work
- Work in an international environment
- Work in an inter-disciplinary environment
- Develop critical thought towards others and themselves
- Development of free, creative and inductive thinking

3. COURSE CONTENT

Lectures

- Anti-hypertensive - Diuretic drugs
- Drugs used in heart failure - Antiarrhythmic drugs - Antianginal drugs
- Medicines that affect the blood
- Antihyperlipidemic drugs
- Estrogens/Androgens
- Adrenal hormones / Corticosteroids
- Pituitary medications - Drugs for Thyroid
- Drugs in the treatment of diabetes
- Gastrointestinal medications
- Drugs of the respiratory system Antimicrobial therapy principles - Folic acid antagonists - Cell wall synthesis inhibitors - Protein synthesis inhibitors - Quinolones, urinary antiseptic agents
- Antimycobacterial
- Anti-fungal drugs
- Antiprotozoal drugs - Drugs against helminths
- Antiviral drugs
- Autacoids and their antagonists
- Medicines for migraines
- Non steroidal anti-inflammatory drugs - Slow-acting immunomodulatory agents for arthritis - Gout remedies
- Drugs for obesity
- Medications for erectile dysfunction
- Medicines for osteoporosis

Emphasis is given to:

Characteristics of each drug class, targeting of pathophysiological conditions, mechanism(s) of action at the cell/molecular level, major therapeutic indications, pharmacokinetic characteristics, frequent and/or dangerous side effects, major contraindications and high-risk drug-drug interactions

4. TEACHING AND LEARNING METHODS - ASSESSMENT

Teaching method	Face to face
Use of information and communication technologies	Use of E-class platform to communicate with students and manage their tasks Use of E-class platform to communicate with students and manage their tasks Use of PCs in teaching

Teaching organization	Teaching Method	Semester Workload
	Lectures	52
	Tutorials	13
	Unsupervised study	60
	Total number of hours for the Course (25 hours of work-load per ECTS credit)	125
STUDENT ASSESSMENT	Evaluation done in greek <ul style="list-style-type: none"> • Written exam: Multiple choice questions, pairing Qs, and Qs requiring brief reasoning and justification, 100% of the final grade 	

5. RECOMMENDED LITERATURE

Suggested Books (greek translation):

1. (Pharmacology) Φαρμακολογία, K. Whalen, R. A. HARVEY, 2015, Εκδ. Παρισιάνου
2. (Pharmacology), RANG, DALE, RITTER, MOORE, 2014, Εκδ. Παρισιάνου
3. (Basic and clinical Pharmacology) Βασική και Κλινική Φαρμακολογία, Katzung B., 2009, Εκδ. ΠΧ Πασχαλίδης
4. Goodman & Gillman's Η Φαρμακολογική Βάση της Θεραπευτικής (the pharmacological basis of therapeutics), 2015, Εκδ. ΠΧ Πασχαλίδης

Suggested Scientific Journals

Annual Review of Pharmacology and Toxicology
 Nature Reviews Drug Discovery
 British Journal of Pharmacology
 Journal of Pharmacology and Experimental Therapeutics

Suggested sites

<http://www.guidetopharmacology.org/>
<https://www.fda.gov/Drugs/InformationOnDrugs/ucm075234.htm>
<https://www.galinos.gr/>
<http://www.eof.gr/web/guest/publications>