



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: **PHYSIOLOGY II**
COURSE CODE: **PHA-B14-NEW**

PHYSIOLOGY II
COURSE DESCRIPTION

1. GENERAL

SCHOOL	HEALTH SCIENCES		
SEPARTMENT	PHARMACY		
LEVEL OF COURSE	UNDERGRADUATE		
COURSE CODE	PHA-B14-NEW	SEMESTER OF STUDIES	3rd
COURSE TITLE	PHYSIOLOGY II		
	INDEPENDENT TEACHING ACTIVITIES	TEACHING HOURS PER WEEK	ECTS CREDITS
	Lectures	4	6
COURSE TYPE	Scientific Field course		
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-B14-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. In particular, upon completion, it aims to provide students with the following:</p> <ul style="list-style-type: none"> - Understand the notions of Homeostasis, Excitation and Cellular signaling, and the physiological function of distinct physiological systems in humans (Musculoskeletal, Nervous, Cardiovascular and Urinary) - Understand the basic notions of electrocardiography - Acquire a demonstrable knowledge and understanding of the knowledge area of Human Physiology, supported by the use of textbooks of advanced level and by additional data derived from recent developments at the forefront of this field. - Be able to use the acquired knowledge and understanding 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. Anatomy, Biochemistry) - Be able to approach complex novel problems related to pathophysiological situations - Students are expected to develop the skills and knowledge needed to continue in more advanced studies with a high degree of autonomy
General Abilities
<p>Search, analyze and synthesize data and information, using the appropriate technology tools Adapt to new situations</p>

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

- Excitability
- Musculoskeletal system
- Nervous system, basic elements and structures
- Functions of the nervous system
- Heart and Vessels – Structure and Function
- Urinary tract, functions of the kidneys

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 & manage their tasks Use of PCs in teaching								
TEACHING ORGANIZATION	<table border="0"> <thead> <tr> <th><i>Teaching Method</i></th> <th><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>52</td> </tr> <tr> <td>Personal (to each student) time for studying</td> <td>98</td> </tr> <tr> <td>Total number of hours for the Course (25 hours of work-load per ECTS credit)</td> <td>150</td> </tr> </tbody> </table>	<i>Teaching Method</i>	<i>Semester Workload</i>	Lectures	52	Personal (to each student) time for studying	98	Total number of hours for the Course (25 hours of work-load per ECTS credit)	150
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Lectures	52								
Personal (to each student) time for studying	98								
Total number of hours for the Course (25 hours of work-load per ECTS credit)	150								
STUDENT ASSESSMENT	Evaluation done in greek Written exam: Multiple choice questions, pairing Qs, and Qs requiring brief reasoning and justification, 100% of the final grade								

5. RECOMMENDED LITERATURE

Manual/Textbook: (Greek translation)

BERNE AND LEVY Φυσιολογία Συγγραφείς: Koerppen, Stanton, Εκδοτικός οίκος: Παρισιάνου Ανώνυμη
 Εκδοτική Εισαγωγική Εμπορική Εταιρεία Επιστημονικών Βιβλίων, 2012
 Ιατρική Φυσιολογία Ι, Boron W. & Boulpaep E., Εκδόσεις: Broken Hill Publishers Ltd, 2011
 Εισαγωγή στη Φυσιολογία του Ανθρώπου. Από τα συστήματα στα κύτταρα, Lauralee Sherwood,
 Ακαδημαϊκές Εκδόσεις Ι. Μπάσδρα και ΣΙΑ Ο.Ε., 2016

Journals: Physiological Reviews

Sites: <http://www.the-aps.org/>