Course Outline: "1104 - Human Physiology"

1. General information

FACULTY/SCHOOL	School of Physical Education, Sport Science & Dietetics			
DEPARTMENT	Department of Nutrition and Dietetics			
LEVEL OF STUDY	Undergraduate			
COURSE UNIT CODE	1104	1104 SEMESTER 1 st		
COURSE TITLE	Human Physiology			
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHNG HOURS	CREDITS	
Lectures		3	5	
			3	5
COURSE TYPE	Background Scientific Ex	Knowledge pertise		
PREREQUISITE COURSES	No			
LANGUAGE OF INSTRUCTION	GREEK			
LANGUAGE OF	GREEK			
EXAMINATION/ASSESSMENT				
THE COURSE IS OFFERED TO	YES			
ERASMUS STUDENTS				
COURSE WEBSITE (URL)				

2. LEARNING OUTCOMES

Learning Outcomes

The aim of the course is the understanding by the students of the structure, the organization and the physiological functions of the human body and more specific topics such as the physiology of digestion and metabolism, useful in daily practices in their professional career regarding human nutrition.

Upon completion of the course of Human Physiology, the student will be able to:

- Understand basic concepts and terms of physiology
- Be familiar with human physiology and its applications at both cellular and systemic levels
- Understand how each individual system of the organism and their functions interact with each other in a way that allows them to present a complete picture regarding the physiological functions of the human body
- Understand the activation of the compensatory/homeostatic mechanisms in cases of systemic dysfunction and the induction of pathological processes and diseases due to inadequate compensatory/homeostatic mechanisms.
- Know ways to deal with problems related to the subject of physiology
- Manage scientific research methods in the field of physiology

General Competences

- Acquisition of the appropriate theoretical cognitive background so that further education is possible
- Search for, analysis and synthesis of data and information
- Promotion of free, creative and deductive thinking
- Working in an interdisciplinary environment

• Individual/Independent work

3. COURSE CONTENT

- Introduction to Physiology and Homeostasis
- Cellular Physiology
- Cytoplasmic Membrane and Membrane Potential
- Physiology of the Nervous System
- Physiology of the Muscles
- Cardiovascular Physiology
- Blood and immune system physiology
- Respiratory Physiology
- Physiology of the Urinary System
- Physiology of the Gastrointestinal System
- Physiology of the Endocrine System
- Physiology of the Reproductive System
- Energy Balance and thermoregulation

4. TEACHING METHODS - ASSESSMENT

MODEC OF DELIVERY				
MODES OF DELIVERY	Face-to-face			
USE OF INFORMATION AND	-Use of PowerPoint presentation program during the			
COMMUNICATION TECHNOLOGY	educational process			
	-Support of the Learning Process through the e-class			
	platform			
	-Communication with the students via email			
COURSE DESIGN	Activity/Method	Semester workload		
	Lectures	40		
	Study and analysis of			
	bibliography	20		
	Self-directed Study	65		
	Total	125		
STUDENT PERFORMANCE	Written final exam (100%) which includes:			
EVALUATION/ASSESSMENT	- Multiple choice questions			
	- Short-answer questions			

5. SUGGESTED BIBLIOGRAPHY

-Suggested bibliography:

- Εισαγωγή στη Φυσιολογία του Ανθρώπου Lauralee Sherwood. Ακαδημαϊκές Εκδόσεις Μπάσδρα & Σία Ο.Ε., 2016
- Vander's Φυσιολογία του Ανθρώπου Οι μηχανισμοί του σώματος. Widmaier P. Eric,
 Raff Hershel, Strang T. Kevin. Ιατρικές Εκδόσεις Πασχαλίδης, 2016
- Ganong's Ιατρική Φυσιολογία. Kim E. Barrett, Susan M. Barman, Scott Boitano, Heddwen
 L. Brooks, 2η Βελτιωμένη Έκδοση, Ιατρικές Εκδόσεις Πασχαλίδης, 2014

-Relative Scientific journals:

- Human Physiology, https://link.springer.com/journal/10747
- Journal of Applied Physiology, https://www.physiology.org/journal/jappl
- Journal of General Physiology, http://jgp.rupress.org/
- European Journal of Applied Physiology, https://link.springer.com/journal/421

- European Journal of Anatomy, http://www.eurjanat.com/web/
- Applied Physiology, Nutrition and Metabolism, https://www.nrcresearchpress.com/journal/apnm