## COURSE OUTLINE PHYSIOLOGY

### 1. GENERAL

SCHOOL	PHYSICAL EDUCATION, SPORT SCIENCE AND OCCUPATIONAL THERAPY				
DEPARTMENT	PHYSICAL EDUCATION AND SPORT SCIENCE				
LEVEL OF STUDIES	ISCED level 6 – Bachelor's or equivalent level				
COURSE CODE	C112		SEMESTER	1 <sup>rst</sup>	
COURSE TITLE	PHYSIOLOG	iΥ			
<b>TEACHING ACTIVITIES</b> If theECTSCreditsaredistributedin distinct partsofthecoursee.g.		TEACHING HOURS PER		ECTS	
lectures, labsetc. If the ECTSC redits are awarded to the				CREDITS	
wholecourse, thenplease indicate the	e teaching hours per week		WEEK		CILDITS
and the corresponding l	ECTS Credits.		2		<u> </u>
			3		6
Please, addlinesifnecessary. Teaching methods and					
organization of the course are described in section 4.					
	Packground				
Scientific Area, Skill Development	Dackground				
PREREQUISITES:	NO				
ΤΕΛΟΗΙΝΟ & ΕΧΑΜΙΝΑΤΙΟΝ	Graak				
LANGUAGE:	Greek				
COURSE OFFERED TO ERASMUS STUDENTS:	NO				
COURSEURL:	https://ecla	ss.duth.gr/c	ourses/KOM02311/		

### 2. LEARNING OUTCOMES

### Learning Outcomes Pleasedescribethelearningoutcomesofthecourse: Knowledge, skills and abilitiesacquiredafterthesuccessfulcompletionofthecourse.

Upon the completion of this course, students will be able to:

- the function of the cell, tissues, organs and systems
- - the interaction of the organism's function with the environment under different conditions
- the function of metabolism as well as basic systems of the body such as the cardiovascular, respiratory, endocrine and neuromuscular-motor system.

### **General Skills**

Name the desirable general skills upon successful co	mpletion of the module
Search, analysis and synthesis of data and information,	Project design and management
ICT Use	Equity and Inclusion
Adaptation to new situations	Respect for the natural environment
Decision making	Sustainability
Autonomous work	Demonstration of social, professional and moral responsibility and
Teamwork	sensitivity to gender issues
Working in an international environment	Critical thinking
Working in an interdisciplinary environment	Promoting free, creative and inductive reasoning
Production of new research ideas	

- Search, analysis and synthesis of data and information, ICT Use
- Adaptation to new situations
- Decision making
- Autonomous work
- Teamwork
- Working in an interdisciplinary environment

- Project design and management
- Equity and Inclusion
- Demonstration of social, professional and moral responsibility and sensitivity to gender issues
- Critical thinking
- Promoting free, creative and inductive reasoning

# 3. COURSE CONTENT

1. Introduction to Physiology: Structure and Organization of the Cell - Homeostasis

- 2. Functions and Metabolism of the Cell Part I
- 3. Functions and Metabolism of the Cell Part II
- 4. Nervous System Transmission of Nerve Impulses (Neurophysiology)
- 5. Muscle Physiology
- 6. Cardiovascular System
- 7. Respiratory System
- 8. Endocrine System
- 9. Kidney Physiology
- 10. Digestive System
- 11. Blood and Immune System
- 12. Laboratory measurements
- 13. Lesson Review Exercise Physiology

## 4. LEARNING & TEACHING METHODS - EVALUATION

<b>TEACHING METHOD</b> Face to face, Distance learning, etc.	Lectures face to face (with the possibility of using distance learning tools)		
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT) Use of ICT in Teaching, in Laboratory Education, in Communication with students	Use of ICT in Teaching		
TEACHING ORGANIZATION The ways and methods of teaching are described in	Activity	Workload/ semester	
Lectures, Seminars, Laboratory Exercise, Field	Lectures	39	
Exercise, Bibliographic research & analysis, Tutoring,	Assignments	40	
Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.	Mid-term written assignments	18	
The supervised and unsupervised workload per activity is indicated here, so that total workload per	Literature study and analysis	50	
semester complies to ECTS standards.	Exams	3	
	Total	150	
<b>STUDENT EVALUATION</b> Description of the evaluation process Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam. Presentation in audience.	Final written examination Mid-term written assign	on (80%) iments (20%)	

Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others	
Please indicate all relevant information about the course assessment and how students are informed	

## 5. SUGGESTED BIBLIOGRAPHY

1. Mahoney E. Carrie (2023). Human Physiology, Constantara Medical Publications. Athens.

2. Stanfield C.L. (2023). Basic Principles of Human Physiology. Broken Hill Publishers Ltd, Nicosia.

3. Panoutsopoulos I. Georgios (2022). Human Physiology for Health Sciences (2nd Edition). DISIGMA Publications, Thessaloniki.

4. Albani M., Venetikou M., Papaliagkas V., & Spandou E. (2022). Human Physiology: Basic Principles and Clinical Approach, 2nd Edition. University Studio Press S.A., Thessaloniki.

5. Lauralee Sherwood (2016). Introduction to Human Physiology: From Cells to Systems. Academic Publications I. Basdra & Co. O.E. Alexandroupoli.

# ANNEX OF THE COURSE OUTLINE

# Alternative ways of examining a course in emergency situations

Teacher (full name):	Apostolos Spassis
Contact details:	aspassis@phyed.duth.gr
Supervisors:	NO
Evaluation methods:	Written examination with distance learning methods
Implementation Instructions:	The examination in the course will be carried out in subgroups of users in the e- class, depending on the number of participants in the course, on the day according to the examination program announced by the Secretariat. The exam will be conducted through Teams. The link will be sent to students via e-class exclusively to the institutional accounts of those who have registered for the course and have accepted the terms of distance methods. Students will have to log in to the examination room through their institutional account, otherwise they will not be able to participate. They will also take part in the examination with a camera, which will be on during the examination. Before the start of the exam, students will show their identity to the camera, so that they can be identified. Each student should answer multiple choice questions, free text development, critical thinking. Each of the questions is graded from 0.2 to 2.0 points depending on the question category.