COURSE OUTLINE METABOLIC DISEASE AND EXERCISE

1. GENERAL

C01001					COUDATIONAL
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	C653		SEMESTER	6th	ı
COURSE TITLE	METABOLIC DISEASE AND EXERCISE				
TEACHING ACTIVITIES					
If the ECTS Credits are distributed in dis	stinct parts of the	e course e.g.	TEACHING		
lectures, labs etc. If the ECTS Credits	lectures, labs etc. If the ECTS Credits are awarded to the whole			۲	ECTS CREDITS
course, then please indicate the teaching hours per week and the			WEEK		
corresponding ECTS Credits.					
		3		6	
Please, add lines if necessary. Teaching methods and organization of					
the course are described in section 4.					
COURSE TYPE	Scientific Area				
Background, General Knowledge, Scientific					
Area, Skill Development					
PREREQUISITES:	No				
TEACHING & EXAMINATION	Greek				
LANGUAGE:	English (Erasmus students)				
COURSE OFFERED TO ERASMUS	Yes				
STUDENTS:					
COURSE URL:	https://eclass.duth.gr/courses/				
	1				

2. LEARNING OUTCOMES

Decision making

Learning Outcomes Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course. Upon completion of the course, students will be able to: plan and implement specific exercise programs taking into account the • specific metabolic condition for each patient • improve the physical fitness and to understand the physiological shortand long-term training adaptations of patients with metabolic disease • train patients with metabolic disease safety and to recognize their body symptoms contraindicated to continue physical exercise • This course is designed to provide students to the acquisition of knowledge, skills and abilities for the implementation of specific exercise programs. The aim of this course is to train students to: • have the ability to design and implement specialized exercise programs, taking into account the pathological metabolic condition of the patient have the ability to recognize the acute exercise alterations in order to train safety and to obtain the short- and long-term benefits of systematic exercise in patients with metabolic diseases **General Skills** Name the desirable general skills upon successful completion of the module Search, analysis and synthesis of data and information, Project design and management ICT Use Equity and Inclusion Respect for the natural environment Adaptation to new situations

Sustainability

Autonomous work Teamwork Working in an international environment Working in an interdisciplinary environment Production of new research ideas Demonstration of social, professional and moral responsibility and sensitivity to gender issues Critical thinking Promoting free, creative and inductive reasoning

- Search, analysis and synthesis of data and information, ICT Use
- Adaptation to new situations
- Decision making
- Autonomous work
- Working in an interdisciplinary environment
- Project design and management
- Equity and Inclusion
- Critical thinking
- Promoting free, creative and inductive reasoning

3. COURSE CONTENT

- 1. Exercise and dyslipidemia
- 2. Obesity and exercise
- 3. Diabetes mellitus and exercise
- 4. Liver diseases and exercise
- 5. Renal diseases and exercise
- 6. Regression of atheromatosis and exercise
- 7. Endothelial dysfunktion and exercise
- 8. Metabolic syndrome and exericse
- 9. Rheumatic diseases and exercise
- 10. Autoimmune diseases and exercise
- 11. Chronic syndromes and exercise
- 12. Chronic inflammatory diseases and exercise
- 13. Thyroid diseases and exercise

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD Face to face, Distance learning, etc.	Lectures face to face (with the possibility of using distance learning tools) Practical application of exercise programs. Note: In the case of distance learning, for the practical application modules it is possible to record and send through e-class specialized exercise programs by the students in case or non-case reports of trainees and dynamic interaction through annotation and group sessions on how to plan, guide and of the exercise program in simulation conditions.	
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	Activity	Workload/semester
The ways and methods of teaching are described in detail.	Lectures	39

Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis, Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.	Mid term evaluation Individual work and literature search Scientific work Examination	14 62 32 3
The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards.	Total	<u>150</u>
STUDENT EVALUATION 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, 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	 Written examination (60%) Mid-term evaluation (20%) Presentation of two scientific papers (20%) 	

5. SUGGESTED BIBLIOGRAPHY

 Tokmakidis SP, Volaklis K., (2008). Exercise as a therapeutic tool for patients with coronary artery disease. Medical publications: Broken Hill Published LTD, Athens. Κωδικός Βιβλίου στον Εύδοξο: 77117095

ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Konstantinos Volaklis, Associate Professor
Contact details:	kvolakli@phyed.duth.gr
Supervisors: (1)	NO
Evaluation methods: (2)	Written examination with distance learning methods
Implementation Instructions: (3)	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 learned 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 they will have

open 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.