COURSE OUTLINE CARDIAC REHABILITATION

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	C654	SEMESTER 6th			
COURSE TITLE	CARDIAC REHABILITATION				
TEACHING ACTIVITIES If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.			TEACHING HOURS PER WEEK		ECTS CREDITS
			3		6
Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.					
COURSE TYPE Background, General Knowledge, Scientific Area, Skill Development	Scientific Area	Э			
PREREQUISITES:	No				
TEACHING & EXAMINATION	Greek				
LANGUAGE:	English (Erasmus students)				
COURSE OFFERED TO ERASMUS STUDENTS:	Yes				
COURSE URL:	https://eclass.duth.gr/courses				

2. LEARNING OUTCOMES

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:

- implement specialized exercise programs for cardiac patients according to their clinical status
- to evaluate the hemodynamic and electrocardiographic changes during exercise and to act immediately in order to achieve safety and effectiveness
- document the progress according to the patient's data and exercise responses
- 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 supervise specialized exercise programs for patients with cardiovascular diseases using EKG monitoring software and procedures
- have the ability to early recognize possible adverse cardiac reactions (e.g. arrhythmias, ischemic events) that take place during exercise

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

T Use Equity and Inclusion

Adaptation to new situations Respect for the natural environment

Decision making

Autonomous work

Teamwork

Working in an international environment Working in an interdisciplinary environment Production of new research ideas

Sustainability

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. Cardiac rehabilitation models and contents
- 2. Evaluation of risk factors and risk stratification
- 3. Biochemical markers in cardiac rehabilitation
- 4. Pharmaceutical treatment und drug interactions with exercise training
- 5. Dietary counseling and psychological support in cardiac rehabilitation
- 6. Specific exercise programs in cardiac rehabilitation
- 7. Exercise testing and prescription (lab)
- 8. Ergoline Software for Cardiac Rehabilitation (lab)
- 9. Ergoline Software for Cardiac Rehabilitation (lab)
- 10. Blood pressure measurement and interpretation (lab)
- 11. 24 hours-Holter applications (lab)
- 12. Exercise EKG-monitoring: case studies (lab)
- 13. Exercise EKG-monitoring: case studies (lab)

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD	Lectures face to face (with the possibility of using	
Face to face, Distance learning, etc.	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 &	Use of ICT in Teaching	
COMMUNICATIONS TECHNOLOGY		
(ICT)		
Use of ICT in Teaching, in Laboratory		
Education, in Communication with students		

TEACHING ORGANIZATION	Activity	Workload/semester
The ways and methods of teaching are described in detail.	Lectures	39
Lectures, Seminars, Laboratory Exercise, Field	Mid-term evaluation	14
Exercise, Bibliographic research & analysis,	Individual work and	C3
Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning,	literature search	62
Study visits, Study / creation, project, creation,	Scientific work	32
project. Etc.	Final examination	3
The supervised and unsupervised workload per	Total	150
activity is indicated here, so that total		
workload per semester complies to ECTS standards.		
STUDENT EVALUATION		
Description of the evaluation process	Written final examination (60)	%)
Assessment Language, Assessment Methods,	• Mid – term evaluation (20%)	
Formative or Concluding, Multiple Choice Test,		
Short Answer Questions, Essay Development	Presentation of two scientific	papers (20%)
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		

5. SUGGESTED BIBLIOGRAPHY

informed

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

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.