



COURSE OUTLINE

1. GENERAL	1				
SCHOOL	PHYSICAL EDUCATION & SPORT SCIENCES				
DEPARTMENT	PHYSICAL EDUCATION & SPORT SCIENCES				
LEVEL OF STUDIES	7				
COURSE CODE	K104	SEMESTER A'			
COURSE TITLE	DESIGN AQUATIC THERAPEUTIC EXERCISE PROGRAMS				
TEACHING ACTIVITIES f 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 PEF WEEK		ECTS CREDITS
· · · ·			3		7,5
<i>Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.</i>					
COURSE TYPE Background, General Knowledge, Scientific Area, Skill Development	SCIENTIFIC AF	REA			
PREREQUISITES:	NO				
TEACHING & EXAMINATION	GREEK				
LANGUAGE:					
COURSE OFFERED TO ERASMUS	NO				
STUDENTS:					
COURSE URL:	https://eclass.duth.gr/courses/PHYED4103/				

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.

Course objectives include:

understanding the specifics of the aquatic environment, and the options available for implementing a specialized exercise program (pool depth, use of equipment)

understanding the exercise limitations of people who have musculoskeletal or neurological diseases as well as injured people who are in the acute phase of the injury

Upon successful completion of this course students will be able to:

- Know and understand the peculiarities of the aquatic environment
- Know and understand the use of appropriate exercise equipment in the water

• know the correct technical execution of specialized exercises

• Know and understand the specifics of people who need therapeutic exercise in water and face chronic musculoskeletal problems, such as chronic back pain, osteoarthritis

• Know and understand the specifics of people who need therapeutic exercise in water and face neurological problems, such as multiple sclerosis and Parkinson's

• Plan and implement therapeutic exercise programs in water in a shallow or deep pool

• Know and understand the beneficial role of water exercise in the acute rehabilitation phase after an injury, in regaining range of motion and muscle strength

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
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







ΔΗΜΟΚΡΙΤΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΡΑΚΗΣ

Promoting free, creative and inductive reasoning

Production of new research ideas

The general skills that are supported involve:

- Search, analysis and synthesis of data and information, using appropriate ICT
- Adaptation to new situations

Working in an interdisciplinary environment

- Decision making
- Autonomous work
- Teamwork
- Working in an interdisciplinary environment
- Production of new research ideas
- Project design and management
- Critical thinking
- Promoting free, creative and inductive reasoning

3. COURSE CONTENT

- 1. Peculiarities of the aquatic environment
- 2. Use of specialized equipment Categories of water exercises I
- 3. Use of specialized equipment Categories of water exercises II
- 4. Ankle sprain Design an exercise program in the water
- 5. ACL Rupture Design an exercise program in the water
- 6. Knee and hip osteoarthritis
- 7. Osteoarthritis of the knee and hip- Design an exercise program in the water
- 8. Scoliosis Design an exercise program in the water
- 9. Chronic low back pain
- 10. Chronic low back pain Design a water exercise program
- 11. Multiple Sclerosis Design a water exercise program
- 12. Parkinson's Design an exercise program in the water
- 13. Projects presentation

4. LEARNING & TEACHING METHODS - EVALUATION

4. LEARNING & TEACHING METHO TEACHING METHOD	– Face to face				
Face to face, Distance learning, etc.	- Theoretical lectures & courses in swimming pool				
	– Distance learning				
USE OF INFORMATION &	Utilization of new technologies in teaching, laboratory				
COMMUNICATIONS TECHNOLOGY	education and communication with students				
(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	Literature study and	28			
Exercise, Bibliographic research & analysis,	analysis	28			
Tutoring, Internship (Placement), Clinical	Project	47			
Exercise, Art Workshop, Interactive learning,	Home study	50			
Study visits, Study / creation, project, creation, project. Etc.	Practical training in pool	23,5			
p j	Total	187,5			
The supervised and unsupervised workload per		·			
activity is indicated here, so that total workload per semester complies to ECTS standards.					
STUDENT EVALUATION					
Description of the evaluation process					
Description of the evaluation process	1. Interim evaluations				
Assessment Language, Assessment Methods,	2. Individual project				
Formative or Concluding, Multiple Choice Test,	3. Written exams including: multiple choice tests, short				
Short Answer Questions, Essay Development Questions, Problem Solving, Written	answer questions				
Assignment, Essay / Report, Oral Exam,	The assessment languages are Greek				
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

5. SUGGESTED BIBLIOGRAPHY

- 1. Bates A., Hanson N. (1996). Aquatic Exercise Therapy. W.B. Saunders Company, Philadelphia, Pennsylvania 19106.
- 2. Becker B.E., Cole, A.J. (eds) (1997). Comprehensive Aquatic Therapy. Butterworth-Heinemann, London.
- 3. Beneka A., Malliou P., Pafis G., Koutra Ch. Malliou V. (2015). Therapeutic Exercise. Kallipos Publications, Greek Academic Electronic Books and Aids, ISBN 978-960-603-034-5 <u>http://hdl.handle.net/11419/372</u>
- 4. Aquatic fitness professional manual/Aquatic Exercise Association (AEA) (2010). 6th ed. Human Kinetics, Champaign, IL
- 5. Foley A., Halbert J., Hewitt T., Crotty M. (2003). Does hydrotherapy improve strength and physical function in patients with osteoarthritis—a randomised controlled trial comparing a gym based and a hydrotherapy based strengthening programme. Ann Rheum, 62, 1162-1167.
- 6. Gioftsidou A, Malliou P, Sofokleous P, Beneka A, Tsapralis K, Kofotolis N, Godolias G. (2013) Aquatic training for ankle instability. Foot and Ankle Specialist, 6, 346-351.







ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Asimenia Gioftsidou, Professor	
Contact details:	agioftsi@phyed.duth.gr	
Supervisors: (1)	no	
Evaluation methods: (2)	Written examination with distance learning methods, via eClass. Identification and monitoring of examinees through Microsoft Teams	
Implementation Instructions: (3)	The examination in the course will take place in subgroups of users in the e-class, depending on the number of participants in the course, on the day of the examination of the course according to the examination schedule announced by the Secretariat. The exam will take place via 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 been informed of the distance education terms. Students must log in to the exam room through their institutional account, otherwise they will not be able to participate. They will also participate in the examination with a camera which they will have open during the examination. Before the start of the exam, students will show their ID to the camera so that they can be identified. Each student should answer multiple choice tests and short answer questions. Each of the questions is scored from 0.5 to 2.0 points depending on the question category.	

(1) Please write YES or NO

(2) Note down the evaluation methods used by the teacher, e.g.

written assignment or/and exercises

written or oral examination with distance learning methods, provided that the integrity and reliability of the examination are ensured.

(3) In the Implementation Instructions section, the teacher notes down clear instructions to the students:

a) in case of **written assignment and / or exercises:** the deadline (e.g. the last week of the semester), the means of submission, the grading system, the grade percentage of the assignment in the final grade and **any other necessary** information.

b) in case of **oral examination with distance learning methods:** the instructions for conducting the examination (e.g. in groups of X people), the way of administration of the questions to be answered, the distance learning platforms to be used, the technical means for the implementation of the examination (microphone, camera, word processor, internet connection, communication platform), the hyperlinks for the examination, the duration of the exam, the grading system, the percentage of the oral exam in the final grade, the ways in which the inviolability and reliability of the exam are ensured and any other necessary information.

c) in case of **written examination with distance learning methods**: the way of administration of the questions to be answered, the way of submitting the answers, the duration of the exam, the grading system, the percentage of the written exam of the exam in the final grade, the ways in which the integrity and reliability of the exam are ensured and any other necessary information.

There should be an attached list with the Student Registration Numbers only of students eligible to participate in the examination.

