



### **COURSE OUTLINE**

#### 1. GENERAL

SCHOOL	PHYSICAL EDUCATION AND SPORT SCIENCE				
DEPARTMENT	PHYSICAL EDUCATION AND SPORT SCIENCE				
LEVEL OF STUDIES	POSTGRADUATE – LEVEL 7				
COURSE CODE	K202	SEMESTER B			
COURSE TITLE	ICT AND PHYSICAL ACTIVITY				
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		7,5
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 PREREQUISITES:	Background and skill development				
TEACHING & EXAMINATION LANGUAGE:	Greek				
COURSE OFFERED TO ERASMUS STUDENTS:	No				
COURSE URL:	https://eclass.duth.gr/courses/PHYED4105/				

### 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.

After successful completion of the course students will be able to:

- know and understand the importance of physical activity for the quality of life,
- participate through field exercises, in the implementation of protocols recording and managing PA data produced by smart devices,
- know and understand the specs of PA data management according to the exported data: steps/day, time in PA, intensity etc.
- design and implement PA protocols using ICT in different environments: school, club, gym,
- Know and understand the "know how" of the most important ICT: movement sensors/ PA "recorders"

# **General Skills**

Name the desirable general skills upon successful completion of the module

Project design and management Search, analysis and synthesis of data and information, ICT Use **Equity and Inclusion** 

Adaptation to new situations

Respect for the natural environment

Decision making Sustainability

Demonstration of social, professional and moral responsibility and Autonomous work

Teamwork sensitivity to gender issues

Working in an international environment Critical thinking

Working in an interdisciplinary environment Promoting free, creative and inductive reasoning

Search, analysis and synthesis of data and information with ICT Use

Adaptation to new situations

Production of new research ideas

**Decision** making Autonomous work







Teamwork

Demonstration of social, professional and moral responsibility and sensitivity to gender issues Respect for the natural environment

**Equity and Inclusion** 

### 3. COURSE CONTENT

Essentials of physical activity & guidelines of PA

PA & smart devices

Integration of interactive video games (exergames) in Physical Activity.

Utilization of interactive video games (exergames) in Physical Activity.

PA & movement sensors

PA & health risk factors

ICT in focus: interventions and PA data from adults I ICT in focus: interventions and PA data from adults II

The use of ICT in Sports and Physical Education

Integrated ICT systems to increase PA in Schools: agent-oriented model.

PA data-management for smart devices apps and PC

Experiential recording and analysis of PA through ICT

PA data collection and analysis

## 4. LEARNING & TEACHING METHODS - EVALUATION

4. LEARNING & TEACHING METHODS - EVALUATION					
TEACHING METHOD  Face to face, Distance learning, etc.	Face to face and distance learning				
Tuce to juce, Distunce learning, etc.					
USE OF INFORMATION &	Use of ICT in Teaching, in Laboratory Education, in				
COMMUNICATIONS TECHNOLOGY	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	Laboratory Exercises	45			
Exercise, Bibliographic research & analysis,	Literature Review	60			
Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning,	Clinical exercise	25,5			
Study visits, Study / creation, project, creation,	Project presentation	15			
project. Etc.	Examen	3			
The supervised and unsupervised workload per					
activity is indicated here, so that total workload per semester complies to ECTS standards.	Total course	187,5			
CTUDENT EVALUATION		· · · · · · · · · · · · · · · · · · ·			

### 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 The Evaluation is done in Greek and is formative.

- 1. Quiz posted in e-class with specific start and end date and time. There is a complete description of the type of questions and the grading is extracted immediately after completion.
- Data collection project with the use of at least one ICT method and mandatory use of a digital recall questionnaire (IPAQ), input into excel sheet and writing of a relevant report. All information about this project is posted on the e-class, including the IPAQ sheet.
- Intervention planning project based on PA data collected using ICT. All information about this project is posted on the e-class included a sampledesign-file for downloading.

#### 5. SUGGESTED BIBLIOGRAPHY







- 1. Judice, P.B., Magalhaes, J. P., Rosa, G.B., Henriques-Neto, D., Hetherington-Rauth, M., Sardinha, L.B. (2021). Sensor-based physical activity, sedentary time, and reported cell phone screen time: A hierarchy of correlates in youth. *Journal of Sport and Health Science*, 10, 55-64.
- Peacock, O.J., Western, M.J., Batterham, A.M., Stathi, A., Standage, M., Tapp, A., Bennett, P. and Thompson, D. (2015). Multidimensional individualised Physical ACTivity (Mi-PACT) – a technology-enabled intervention to promote physical activity in primary care: study protocol for a randomised controlled trial, *Trials* (2015) 16, 381. DOI 10.1186/s13063-015-0892-x
- 3. Western, M., Peacock, O.J., Stathi, A., Thompson, D. (2015). The Understanding and Interpretation of Innovative Technology-Enabled Multidimensional Physical Activity Feedback in Patients at Risk of Future Chronic Disease. *Plos One*, <a href="http://dx.doi.org/10.15125/BATH-00064">http://dx.doi.org/10.15125/BATH-00064</a>
- 4. Venetsanou, F., Emmanouilidou, K., Soutos, K., Sotiriou, S.A., Bastida, L., Moya, A. and Kambas, A. (2020). Towards a Functional Approach to the Assessment of Daily Life Physical Activity in Children: Are the PAQ-C and Fitbit Flex-2 Technically Adequate? *International Journal of Environmental Research and Public Health*, 17, 8503; doi:10.3390/ijerph17228503.







## ANNEX OF THE COURSE OUTLINE

# Alternative ways of examining a course in emergency situations

Teacher (full name):	KAMBAS ANTONIS
Contact details:	2531039643
	akampas@phyed.duth.gr
Supervisors: (1)	no
Evaluation methods: (2)	written or oral examination with distance learning methods
Implementation	YES
Instructions: (3)	

- (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.

