

COURSE OUTLINE

1. GENERAL

SCHOOL			
DEPARTMENT	DEPARTMENT OF PHYSICS		
LEVEL OF STUDIES	ISCED level 6 – Bachelor's or equivalent level		
COURSE CODE	E506-2023	SEMESTER	5th Semester
COURSE TITLE	Basic telemetry applications		
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	3.0
COURSE TYPE Background, General Knowledge, Scientific Area, Skill Development	Skill Development		
PREREQUISITES			
TEACHING & EXAMINATION LANGUAGE:	Greek		
COURSE OFFERED TO ERASMUS STUDENTS:	NO		
COURSE URL:	https://eclass.emt.duth.gr/courses/PHYSICS217/		

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.
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General Skills

Name the desirable general skills upon successful completion of the module

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

Project design and management
Equity and Inclusion
Respect for the natural environment
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
Autonomous work

3. COURSE CONTENT

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD Face to face, Distance learning, etc.	Face to face								
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT) Use of ICT in Teaching, in Laboratory Education, in Communication with students	Use of ICT in Teaching Use of ICT in Laboratory Education								
TEACHING ORGANIZATION The ways and methods of teaching are described in detail. 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. The supervised and unsupervised workload per activity is indicated here, so that total workload per semester complies to ECTS standards	<table border="1"> <thead> <tr> <th>Activity</th><th>Workload/semester</th></tr> </thead> <tbody> <tr> <td>Lectures</td><td>50</td></tr> <tr> <td>Internship (Placement)</td><td>25</td></tr> <tr> <td>Total</td><td>75</td></tr> </tbody> </table>	Activity	Workload/semester	Lectures	50	Internship (Placement)	25	Total	75
Activity	Workload/semester								
Lectures	50								
Internship (Placement)	25								
Total	75								
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	Student evaluation languages Greek Method (Formative or Concluding) Formative <table> <tr> <td>Student evaluation methods</td><td>Rate</td></tr> <tr> <td>Written exam with multiple choice test</td><td>70</td></tr> <tr> <td>Written Assignment</td><td>30</td></tr> </table>	Student evaluation methods	Rate	Written exam with multiple choice test	70	Written Assignment	30		
Student evaluation methods	Rate								
Written exam with multiple choice test	70								
Written Assignment	30								

Please indicate all relevant information about the course assessment and how students are informed

5. Suggested Bibliography

ΠΡΟΓΡΑΜΜΑΤΙΖΟΝΤΑΣ ΜΕ ΤΟΝ ΜΙΚΡΟΕΛΕΓΚΤΗ ARDUINO ΑΝΟΙΧΤΗ ΒΙΒΛΙΟΘΗΚΗ (<https://www.openbook.gr/programmatizontas-me-ton-mikroelegkti-arduino/>)

Eudoxus

1) ARDUINO: ΑΛΓΟΡΙΘΜΙΚΗ, ΠΡΟΓΡΑΜΜΑΤΙΣΜΟΣ ΚΑΙ ΕΦΑΡΜΟΓΕΣ
Κωδικός βιβλίου στον Εύδοξο : 102070452, ISBN : 9789606451744
Συγγραφείς: ΑΡΙΣΤΕΙΔΗΣ Σ. ΜΠΟΥΡΑΣ, ΓΙΑΝΝΗΣ Θ. ΚΑΠΠΟΣ
Εκδόσεις: ΕΚΔΟΣΕΙΣ ΚΛΕΙΔΑΡΙΘΜΟΣ ΕΠΕ

2) Ανάπτυξη Εφαρμογών με το Arduino, 3η Έκδοση
Κωδικός βιβλίου στον Εύδοξο : 102071811, ISBN : 9789604189373
Συγγραφείς: Παπάζογλου Παναγιώτης, Λιωνής Σπύρος-Πολυχρόνης
Εκδόσεις: ΤΖΙΟΛΑ