

COURSE OUTLINE

1. GENERAL

SCHOOL			
DEPARTMENT	DEPARTMENT OF PHYSICS		
LEVEL OF STUDIES	ISCED level 6 – Bachelor's or equivalent level		
COURSE CODE	Y104-2023	SEMESTER	1st Semester
COURSE TITLE	Computer Science Laboratory for Physicists		
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
		5	5.0
COURSE TYPE Background, General Knowledge, Scientific Area, Skill Development	Scientific Area		
PREREQUISITES			
TEACHING & EXAMINATION LANGUAGE:	Greek		
COURSE OFFERED TO ERASMUS STUDENTS:	NO		
COURSE URL:	https://eclass.emt.duth.gr/courses/PHYSICS187/		

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

Adaptation to new situations
Decision making
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>Laboratory Exercise</td><td>100</td></tr> <tr> <td>Writing project</td><td>30</td></tr> <tr> <td>Bibliographic research & analysis</td><td>20</td></tr> <tr> <td>Total</td><td>150</td></tr> </tbody> </table>	Activity	Workload/semester	Laboratory Exercise	100	Writing project	30	Bibliographic research & analysis	20	Total	150
Activity	Workload/semester										
Laboratory Exercise	100										
Writing project	30										
Bibliographic research & analysis	20										
Total	150										
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 Problem Solving</td><td>70</td></tr> <tr> <td>Written Assignment</td><td>30</td></tr> </table>	Student evaluation methods	Rate	Written Exam with Problem Solving	70	Written Assignment	30				
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Written Exam with Problem Solving	70										
Written Assignment	30										

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

5. Suggested Bibliography

Eudoxus

-Βιβλίο [50656000]: Εισαγωγή στην Χρήση των Η/Υ, Δαγδιλέλης Β., Ευαγγελίδης Γ., Σατρατζέμη Μ., Ν. Φαχαντίδης Βιβλίο

[102071693]: Εισαγωγή στην Πληροφορική και τις Εφαρμογές της, Παπάζογλου Παναγιώτης

Πρόσθετη Προτεινόμενη Βιβλιογραφία

Βιβλίο [50656000]: Εισαγωγή στην Χρήση των Η/Υ, Δαγδιλέλης Β., Ευαγγελίδης Γ., Σατρατζέμη Μ., Ν. Φαχαντίδης Βιβλίο [102071693]:

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