

COURSE OUTLINE

1. GENERAL

SCHOOL	APPLIED SCIENCES		
DEPARTMENT	ENVIRONMENTAL ENGINEERING		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE UNIT CODE	GE5260	SEMESTER OF STUDY	2
COURSE TITLE	COMPUTERS		
COURSEWORK BREAKDOWN		TEACHING WEEKLY HOURS	ECTS Credits
THEORY		2	1.75
LABORATORY EXERCISES		2	1.75
		4	3.5
COURSE UNIT TYPE	GBC		
PREREQUISITES :	N/A		
LANGUAGE OF INSTRUCTION/EXAMS:	GREEK/ENGLISH		
COURSE DELIVERED TO ERASMUS STUDENTS	YES		
MODULE WEB PAGE (URL)	http://geope.teiko.gr/undergraduate/ug_studies.htm		

2. LEARNING OUTCOMES

Learning Outcomes
<p>The course aims to enable students to:</p> <ul style="list-style-type: none"> • Learn the structure of computer hardware and peripheral systems • Learn about operating systems and familiarize with one of them • Be able to configure the graphical user interface of the operating system • Be able to manage files and folders • Be able to use common software applications. • Learn about computer programming languages and the principles of programming.
General Skills
<p><i>Upon successful completion of the programme students will:</i></p> <p><i>-have the basic theoretical and practical knowledge in the fields of the subject area of Geotechnology and Environmental Engineering</i></p> <p><i>-be able to properly apply the theoretical and practical knowledge acquired during the study period</i></p> <p><i>-be able to cover a wide spectrum of scientific and technical knowledge related to mining and geotechnical projects as well as the sector of environmental reclamation</i></p> <p><i>-have gained the necessary competencies to proceed to their second cycle study</i></p>
<ul style="list-style-type: none"> • Search, analysis and synthesis of data and information, using the necessary technologies • Design and management of projects • Autonomous working • Team work

3. COURSE CONTENTS

Introduction to computers. Hardware basics, operating systems, software applications, computer programming. Files and folders management, creating shortcuts, backups. Introduction to programming.

4. TEACHING METHODS - ASSESSMENT

MODE OF DELIVERY	Face to face	
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY	Extensive use of computers, software, data projection system, internet.	
TEACHING METHODS	Method description	Semester Workload
	Laboratory computer exercises using Microsoft Windows and Microsoft Office	14 exercises X 2 hours per week = 28 hours
	Study of the software user manual	14 exercises X 1 hours per week = 14 hours
	Theoretical lectures	14 exercises X 2 hours per week = 28 hours
	Study of theory	14 exercises X 2 hours per week = 28 hours
	Final theoretical examination study	4 hours
	Total	102
ASSESSMENT METHODS	<p>Student assessment is carried out in Greek. Students watch through a projection screen and at the same time perform on their computer the steps of each laboratory exercise in the course laboratory. Their assessment includes examining the completion of a selected exercise steps as well as verbal examination on questions related to the exercise. The successful completion of the steps receives at most 5 marks and so does the verbal examination. Thus, the total top marks for the final lab exam is 10.</p> <p>Assessment in the theoretical part is based on a final written examination with 2 questions and three exercises.</p> <p>The assessment method for both laboratory and theoretical parts is made known to the students at the beginning of the semester. Additionally, for the theoretical part the students are provided with examples of past exam papers.</p>	

5. RESOURCES

- Recommended Book Resources:

- Καπαγερίδης, Ι., Εισαγωγή στους Η/Υ, Σημειώσεις Θεωρίας και Εργαστηρίου, 2013.
- Δαμιανάκης, Α.Κ., Εισαγωγή στους Ηλεκτρονικούς Υπολογιστές, Εκδόσεις Πατάκη, 1997
- Φρυσήρας, Κ., Εισαγωγή στους Ηλεκτρονικούς Υπολογιστές, Ιδιωτική Έκδοση, 2004
- Καρολίδης Δ.Α., Ξαρχάκος, Κ.Ι., Εισαγωγή στην Πληροφορική και το Διαδίκτυο, Ιδιωτική Έκδοση, 2008
- Καρολίδης Δ.Α., Ξαρχάκος, Κ.Ι., Microsoft Office Excel 2010, Ιδιωτική Έκδοση, 2011

- *Recommended Article/Paper Resources:*

- Computing
- Journal of Computer and System Sciences

GBC: General Background Courses