COURSE DISCRIPTION

1. GENERAL

SCHOOL	ENVIRONMENT, GEOGRAPHY AND APPLIED ECONOMICS
DEPARTMENT	GEOGRAPHY
LEVEL OF COURSE	Undergraduate
COURSE CODE	**SEMESTER** 1a
COURSE TITLE	INTRODUCTION TO INFORMATICS

STRUCTURE OF TEACHING ACTIVITIES	TEACHING HOURS PER WEEK	NUMBER OF CREDITS ALLOCATED (ECTS)
Lectures and Laboratory Classes	3	5

TYPE OF COURSE	Compulsory
PREREQUISITES	-
LANGUAGE OF INSTRUCTION	GREEK
COURSE OFFERED TO ERASMUS STUDENTS	YES (in English if required)
(URL)	

2. EXPECTED LEARNING OUTCOMES

Learning outcomes
Describe the objectives of the course as well as the expected learning outcomes

Students are introduced to fundamental topics for developing a basic understanding of Information Science. At the end of the course the student is expected to be able to understand the computer architecture and structure. It is also expected to build up its skill in programming through designing and developing source code. The practical sessions provide "hands on" applications while the laboratory sessions of the course are essential for the learner in order to demonstrate its skills on developing programs and debugging them through various compiler tools.

3. COURSE CONTENTS

1. Theory
Computer History, Numerical systems, computer architecture, Operating systems, Compilers, algorithms, flowcharts, Basic concepts of Procedural and Object Oriented Programming, Introduction to Programming Language Python, Applications and exercises in Python
2. Lab classes
Lab practical 1-5: Applications in Open Office/ Libre Office software, Open Office Writer, Open Office Calc
Lab practical 6-11: Python programming language is taught and along with

exercises in order to develop programming skills in Python

4. TEACHING AND ASSESSMENT METHODS

TYPE OF LECTURES	In class lectures Laboratory Lectures and Practice	
ICT USE	ICT use and e-class	
TEACHING STRUCTURE	**Activity**	**Hours per semester**
	Lectures	26
	Laboratory	13
	Weekly assignments	26
	Studying	65
	TOTAL	**130**
ASSESSMENT METHODS	Assessment Language: Greek The basic assessment type of the course is the written examination at the end of the semester (3 hours) providing the 60% of the final grade. It is combined with a final practice test in Python programming language (30 minutes) contributing to the rest 40% of the final grade. On weekly basis there is also a laboratory work in the form of application in Python language which is submitted up to the day of each practice and it is based on the contents of the previous work.	

5. RECOMMENDED READING

- Behrouz Forouzan, Firouz Mosharraf, 2010, "Introduction to Computer Science", Kleidarithmos Publications, Athens, Greece.
- Avouris N., Sgarmpas K., B. Paliouras, Koukias M., 2013, Introduction to Computers with language Python, Property Development and Management Company of the University of Patras, Patras, Greece.