UNIVERSIDADE LUSÍADA
LISBOA

Course Unit Program
Introduction to Programming

Academic Year 2023/2024

1. Organic Unit

Faculty of Business and Economic Sciences

2. Course

Computer Engineering

3. Cycle

1st

4. Course Unit

Introduction to Programming (L9004)

5. Scientific Area

6. Curricular Year

1st

7. Type of Curricular Unit / Semester

1st Semester

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8. Class type and workload (work time)

Theoretical classes:	
Practical classes:	
Theoretical-Practical Classes	30,00
Tutorial Guidance:	20,00

9. ECTS Credits

6,00

10. Scientific Area Coordinator

11. Regent

Prof. Doutora MARIA INÊS VASCONCELLOS FURTADO

12. Assistants

13. Teaching Language

Portuguese

14. General Objectives

1. Introduce the student to programming in the imperative model.
2. Learn to solve different problems with programming and to use iterative and recursive programming methods.
3. Begin practical use of the C language by practicing coding algorithms in this language.

15. Specific Objectives

A. Characterize the imperative programming model and the control structures that are part of it.
B. Study and practice iterative and recursive programming methods.
C. Introduction to the C imperative programming language
C.1 Manipulation of a programming environment IDE (Integrated Development Environment)
C.2 Creation of a programming project (introductory level)

16. Skills to be acquired

1. Knowledge of the characteristics of the imperative programming model.
2. Practice solving imperative programming problems.
3. Knowledge of the fundamental instructions and types of the C language.
4. Students, by the end of the course, should be able to analyze and create systems and software (introductory level)

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17. Teaching Methodology

1. The theoretical-practical classes are based on practical examples and supported with notes and references.
2. The tutorial classes are dedicated to the practice of the C language and are supported by tutorial lessons.

18. Course Unit Program

19. Assessment Methods

Continuous evaluation is made according to the university's current regulations comprising assiduity, participation and engagement in class. The work requested is the object of evaluation, following the objective to be achieved and the defined schedule.

20. Didactic Resources

Classes will be given, whenever possible, using visual presentations.
Computers in practical classes with Visual Studio, Dev C++ or similar.
Theoretical-practical lectures and exercises.

21. Sustainability Objectives

22. Keywords

Algorithms
Programming
C Language

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23. Main Bibliography

Author(s):	Damas, Luís Manuel Dias		
Title:	Linguagem C		
Edition:	1	Year:	1999
Local:	Lisboa		
Publisher:	FCA		

Author(s):	Rocha, António Manuel Adrego da		
Title:	Introdução à programação usando C		
Edition:	1	Year:	2006
Local:	Lisboa		
Publisher:	FCA		

Author(s):	Pereira Alexandre		
Title:	C e algoritmos		
Edition:	1	Year:	2017
Local:	Lisboa		
Publisher:	Sílabo		

24. Complementary Bibliography

Author(s):	Dennis M. Ritchie, Brian W. Kernighan		
Title:	The C programming language		
Edition:	2	Year:	1988
Local:	New Jersey		
Publisher:	Prentice Hall		

Author(s):	Deitel, Harvey M.; Deitel, P. J.		
Title:	Como programar em C		
Edition:		Year:	1999
Local:	Rio de Janeiro		
Publisher:	LTC - Livros Técnicos e Científicos Editora		

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Título / Title	Course Unit Program 'INTRODUÇÃO À PROGRAMAÇÃO': Academic Year 2023/2024
Autor / Author	Prof. Doutora MARIA INÊS VASCONCELLOS FURTADO
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