UNIVERSIDADE LUSÍADA
LISBOA

Course Unit Program
Programming Engineering

Academic Year 2025/2026

1. Organic Unit

Faculty of Business and Economic Sciences

2. Course

Computer Engineering

3. Cycle

1st

4. Course Unit

Programming Engineering (L9031)

5. Scientific Area

6. Curricular Year

3rd

7. Type of Curricular Unit / Semester

2nd 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. Doutor JOÃO JOSÉ AMARO AMADOR LEITÃO

12. Assistants

13. Teaching Language

Portuguese

14. General Objectives

With the growing complexity of software systems and the consequent preponderance of costs related to them compared to other ICT components, Software Engineering, in the mid-70s, acquired an increasingly significant importance as a way of guaranteeing greater systematization and control effort to develop new systems, as well as the maintenance of existing systems.

15. Specific Objectives

This course will cover the most current techniques regarding software development project management processes, using project management through various methodologies as well as the principles associated with them.

16. Skills to be acquired

Students should be able to: specify requirements, design and test complex software systems, using planning tools and management of available resources and manage a software project.

17. Teaching Methodology

Teaching will be based on the oral transmission of information related to the topics under study, followed by its practical application in a project.

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18. Course Unit Program

01. Introduction
02. Definitions in project management
03. Gantt chart
04. Phases of project management
05. Project management methodologies
06. Documentation in project management
07. HR management in project management
08. Leadership

19. Assessment Methods

The continuous assessment methodology is expressed in the General Regulation for Continuous Assessment in force.

20. Didactic Resources

Module presentations.

21. Sustainability Objectives

The course contributes to the following Sustainable Development Goals within the UN framework and definition:
4 - Quality Education - Through the acquisition of technical skills in information systems and their development and design.
5 - Gender Equality - Promoting inclusive and gender-sensitive pedagogical practices.
9 - Industry, Innovation, and Infrastructure - Through the application of innovative tools in the design and management of information systems and their design.

22. Keywords

Software Engineering
Project Managemente Frameworks

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23. Main Bibliography

Author(s): Ian Sommerville
Title: Software Engineering
Edition: 10ª Year: 2015
Local: Scotland
Publisher: Addison-Wesley
ISBN Code:

Author(s): Carlo Ghezzi, Mehdi Jazayeri, Dino Mandrioli
Title: Fundamentals of Software Engineering
Edition: 2ª Year: 2009
Local:
Publisher: Prentice Hall
ISBN Code:

Author(s): António Miguel
Title: Gestão de Projectos de Software
Edition: 5ª Year: 2015
Local: Lisboa
Publisher: FCA
ISBN Code:

24. Complementary Bibliography

Author(s): Howard Podeswa
Title: UML For The IT Business Analyst
Edition: 2ª Year: 2009
Local:
Publisher: Course Technology PTR
ISBN Code:

Author(s): David L. Olson
Title: Information Systems Project Management
Edition: Year: 2014
Local:
Publisher: Business Expert Press
ISBN Code:

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Ficha técnica MIP / MIP Datasheet	
Título / Title	Course Unit Program 'ENGENHARIA DA PROGRAMAÇÃO': Academic Year 2025/2026
Autor / Author	Prof. Doutor JOÃO JOSÉ AMARO AMADOR LEITÃO
Classificação / Classification	-
Descritores / Descriptors	-
Colaborador(es) / Colaborator(s)	-
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