UNIVERSIDADE LUSÍADA
LISBOA

Course Unit Program
Research Methods and Information Technology

Academic Year 2025/2026

## 1. Organic Unit

Faculty of Law

## 2. Course

LAW

## 3. Cycle

1st

## 4. Course Unit

Research Methods and Information Technology (02305)

## 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: | |

## 9. ECTS Credits

3,00

## 10. Scientific Area Coordinator

## 11. Regent

Prof. Doutora FILIPA MARIA DE A. MARQUES PAIS D´AGUIAR

## 12. Assistants

## 13. Teaching Language

Portuguese

## 14. General Objectives

Provide students with knowledge and ability to understand and apply concepts and methods in the scientific research field, namely in the field of Legal Science.

## 15. Specific Objectives

Endow students with the following abilities:
- Knowledge and understanding of scientific research methodology, its relevance and application;
- Knowledge of the concept and resources of information technologies, their relevance and ethical dimensions, within the research methodology framework;
- Ability to structure scientific research and academic papers;
- Ability to apply legal thought and language.

## 16. Skills to be acquired

Develop scientific research skills, namely:
- Collect, select, research, analyse and interpret information, within Legal Science extent, e.g., legislation, jurisprudence and doctrine;
- Accomplish scientific research and academic papers;
- Apply scientific methodologies and acquired knowledge to new situations.



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## 17. Teaching Methodology

Adoption of affirmative, demonstrative and active pedagogical methods, through:
- Theoretical lecture on the Course Unit Program;
- Tutorial guidance of academic papers;
- Completion of references lists according to the studied reference norms and styles.

## 18. Course Unit Program



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Part I - Scientific Research

Chapter I - The Scientific Methodology

1. Epistemology and Scientific Research characteristics
2. Introduction to the Scientific Research Process
2.1. Object identification
2.2. Sources selection
2.3. The hypothesis: questioning and explanation
3. Scientific methods
3.1. Concept and selection
3.2. Legal methods and systems
4. Information collection and processing

Chapter II - Studying for research
5. Main ideas and motivation
6. Study planning
7. Study techniques: reading and text comprehension strategies
7.1. Essentialisation
7.1.1. Initial glance
7.1.2. Underline
7.1.3. Extraction
7.1.4. Summary
7.1.5. Reading sheets
7.1.5.1. Bibliographic sheets
7.1.5.2. Content sheets
7.2. Structuring
7.2.1. Schemes
7.2.2. Examples of schematics
7.3. Elaboration
7.3.1. Notes
7.3.2. Paraphrase
8. Memorisation
9. Written text elaboration

Part II - Scientific work presentation
10. Types of work
11. Academic work
11.1. Concept
11.2. Elements
11.3. The Theme
11.4. The Objective: problem setting and structuring
11.5. The Hypothesis



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11.6. The Proposal
11.7. The Theory-conceptual foundations
11.8. The Index
11.9. The Chapters
11.10. The Conclusion
11.11. The elements of style
11.12. Scientific notation techniques
11.12.1. Quotation
11.12.2. Bibliographic references
12. Location and quotation form of legal norms
13. The Schedule
14. Spelling, linguistic and typographic review
15. Research ethics
16. Scientific work presentation and defense

Part III - Information Resources on Legal Science
17. Information Resources
17.1. Traditional resources
17.2. Electronic resources
17.3. Artificial Intelligence resources
17.3.1. Ethical Dimensions
17.3.2. Copyright

## 19. Assessment Methods

Continuous assessment methodology consisting of two stages of mandatory mid-term assessment (one written test and one academic work).

## 20. Didactic Resources

Main and complementary bibliography, with possibility of access in ebook format when made available by the publisher.
Legislation: Constitution of the Portuguese Republic, EU AI Act, and several legislation.
Digital resources: Computer, web, availability of teaching resources on the AdS and Moodle / b-learning platform.

## 21. Sustainability Objectives

Promote education to enable technical, professional and social skills necessary for the development of decent work, entrepreneurship and well-being, combating poverty and social exclusion;
Ensure equal conditions, taking into account situations of special vulnerability, promoting safe and protected work environments;
Make digital resources available, reducing the environmental impact and promoting the reuse, reduction and recycling of resources.
(SDG 1-5;7-8;10-13,16)



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## 22. Keywords

Research
Science
Methodology
Legal method
Study techniques
Technology
Information



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## 23. Main Bibliography

| | | | |
|---|---|---|---|
| Author(s): | MARCONI, Marina de Andrade; LAKATOS, Eva Maria | | |
| Title: | Fundamentos de Metodologia Científica | | |
| Edition: | 9.ª | Year: | 2021 |
| Local: | São Paulo | | |
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## 24. Complementary Bibliography

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| Author(s): | FREIXO, Manuel João Vaz | | |
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| Edition: | 5.ª | Year: | 2018 |
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| Ficha técnica MIP / MIP Datasheet | |
|---|---|
| Título / Title | Course Unit Program 'METODOLOGIA DA INVESTIGAÇÃO E TECNOLOGIA DA INFORMAÇÃO': Academic Year 2025/2026 |
| Autor / Author | Prof. Doutora FILIPA MARIA DE A. MARQUES PAIS D´AGUIAR |
| Classificação / Classification | - |
| Descritores / Descriptors | - |
| Colaborador(es) / Colaborator(s) | - |
| Data Hora / Date Time | |
| Formato de dados / Data Format | Texto / Text, PDF |
| Estatuto de utilização / Usage | Acesso público / Public Access |
| Relação / Relation | Version 1,0 |

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| Colaborador(es) / Colaborator(s) | - |
| Data Hora / Date Time | |
| Formato de dados / Data Format | Texto / Text, PDF |
| Estatuto de utilização / Usage | Acesso público / Public Access |
| Relação / Relation | Version 1,0 |

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