

Course Unit	Research in Lab. Biom. Sciences II	Field of study	Biomedical Laboratory Sciences
Bachelor in	Biomedical Laboratory Sciences	School	School of Health
Academic Year	2023/2024	Year of study	3
Type	Semestral	Semester	2
Level	1-3	ECTS credits	5.0
Code	9995-804-3206-00-23		
Workload (hours)	135	Contact hours	T - , TP 8 , PL - , TC 45 , S - , E - , OT 7 , O -

T - Lectures; TP - Lectures and problem-solving; PL - Problem-solving, project or laboratory; TC - Fieldwork; S - Seminar; E - Placement; OT - Tutorial; O - Other

Name(s) of lecturer(s) Ana da Conceicao Saraiva e Sousa Tavares, Andrea Luisa Fernandes Afonso, Antonio Jose Madeira Nogueira, Emanuel Onofre Serra Lameiras, Josiana Adelaide Vaz

#### Learning outcomes and competences

At the end of the course unit the learner is expected to be able to:

1. Learning objectives will provide continuity the syllabus covered in the Applied Research Laboratory Biomedical Sciences I.
2. Realising all steps concerning the planning, implementation and dissemination of scientific research.

#### Prerequisites

Before the course unit the learner is expected to be able to:  
N/A

#### Course contents

Planning, execution and reporting a scientific investigation.

#### Course contents (extended version)

1. Bibliographic search and original Study design
2. Scientific method in health;
3. Selection of data sources and participants;
4. Preparation of a research protocol and data collection;
5. Analysis of results;
6. Scientific communication: Dissemination of results on a scientific publication.

#### Recommended reading

1. Girão, A. (2008). Investigação aplicada em análises clínicas e saúde pública. Coimbra: Escola Superior de Tecnologia da Saúde de Coimbra.
2. Pestana, H. , & Gageiro, J. , (2008). Análise de dados para Ciências Sociais. A complementaridade do SPSS. Lisboa: Edições Sílabo.
3. Ribeiro, J. (2010). Metodologia de Investigação em Psicologia e Saúde. 3ª Ed. Oliveira de Azemeis. Livpsic.
4. Thomas, R. (2003). Blending qualitative & quantitative: Research methods in theses and dissertations. London: Corwin Press, Inc - A Sage Publications Company.

#### Teaching and learning methods

Active teaching-learning methodologies. Practical Application of Research Methods and Techniques in the area of Biomedical Laboratory Sciences; Writing with tutorship of an article under the supervision of a teacher.

#### Assessment methods

1. Distributed assessment - (Regular, Student Worker) (Final)
  - Development Topics - 55% (Writing of a scientific paper in the field of Biomedical Sciences Laboratory.)
  - Presentations - 15% (Pitch - 3min oral presentation (poster))
  - Projects - 15% (Scientific poster)
  - Experimental Work - 15% (Coursera: How to Write and Publish a Scientific Paper - Project-Centered Course)
2. Second chance examination - (Regular, Student Worker) (Supplementary, Special)
  - Projects - 15% (Scientific poster)
  - Development Topics - 75% (Writing of a scientific paper in the field of Biomedical Sciences Laboratory.)
  - Presentations - 10% (Pitch - 3min oral presentation (poster))

#### Language of instruction

Portuguese, with additional English support for foreign students.

#### Electronic validation

Ana da Conceicao Saraiva e Sousa Tavares, Andrea Luisa Fernandes Afonso, Antonio Jose Madeira Nogueira, Emanuel Onofre Serra Lameiras, Josiana Adelaide Vaz	Carina de Fatima Rodrigues	Luis Migue Fernandes Nascimento	Adília Maria Pires da Silva Fernandes
22-03-2024	04-04-2024	04-04-2024	07-04-2024