

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	2022/2023	Year of study	3
Type	Semestral	Semester	2
Level	1-3	ECTS credits	5.0
Code	9995-550-3205-00-22		
Workload (hours)	135	Contact hours	T - TP - PL - TC - S 45 E - OT 15 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) Josiana Adelaide Vaz, Ana da Conceicao Saraiva e Sousa Tavares, Antonio Jose Madeira Nogueira, Emanuel Onofre Serra Lameiras, Rute Alexandra Araujo da Costa Dominguez

### 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. 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 - 60% (Writing of a scientific paper in the field of Biomedical Sciences Laboratory.)
  - Presentations - 10% (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

Josiana Adelaide Vaz	Carina de Fatima Rodrigues	Juliana Almeida de Souza	Adília Maria Pires da Silva Fernandes
09-03-2023	02-06-2023	28-06-2023	28-06-2023