



**COURSE UNIT INFORMATION SHEET (SYLLABUS)
2022/2023**

Study Program: Postgraduate Diploma in Data Analysis in Psychology

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| Name Analysis and writing of scientific articles |
| Teaching staff (Also indicate the Professor in charge) Ana Isabel Gomes (Professor in charge) |
| ECTS 6 ECTS |
| Functioning 18 hours/semester of theoretical-practical classes for 15 weeks |
| Learning goals Provide students with knowledge and skills about how to read, critically analyze, design, and write a scientific article. Familiarize students with the process of submitting and publishing articles in scientific journals, and with the editorial evaluation criteria recommended for each type of scientific article. |
| Skills to be developed <ol style="list-style-type: none">1. Know the structure of a scientific article and distinguish the different types of articles;2. Structure and write the different sections of an article, based on international guidelines and specific preferences of scientific journals;3. Recognize the importance of the article's narrative and the congruent articulation between the various sections;4. Critically analyze a scientific article, especially the methodological section and its articulation with the different sections of the article;5. Know the process of submission and publication of a scientific article, and the general criteria for editorial evaluation for publication. |
| Prerequisites (precedences) * Not applicable |



Contents

1. What is a scientific article? Types of articles, basic article structure, and scientific writing style;
2. Organization and characteristics of the different sections of the scientific article: abstract, introduction, materials and methods, presentation of results, discussion and conclusions, practical implications and limitations, figures and tables, bibliographic references, and supplementary documentation;
3. Read a scientific article: Basic instructions and elaboration of the reading strategy;
4. Critically analyze a scientific article: the article's narrative; adequacy of the analysis strategy to the hypotheses/objectives/research questions formulated and data collected; adequacy of the presentation and discussion of results to the statistical procedures performed;
5. Writing a scientific article: main steps;
6. Process of submission and publication of an article in a scientific journal;
7. General notions about the editorial process of evaluation of the scientific article for publication: identification of the main difficulties and discussion of solutions.

Bibliography

Lindsay, D. (2011). *Scientific writing = thinking in words*. Australia: CSIRO Publications.

Ecarnot, F., Seronde, M. F., Chopard, R., Schiele, F., & Meneveau, N. (2015). Writing a scientific article: A step-by-step guide for beginners. *European Geriatric Medicine*, 6(6), 573-579.

Oliveira, L. A. (2019). *Escrita científica: da folha em branco ao texto final*. Lisboa: Lidel.

Teaching methods

Theoretical-practical classes using an expository and interrogative methodology, demonstration and training of reading/analysis strategies of scientific articles and scientific writing, applied to a real research context.

Evaluation Regimes (General and/or Alternative)

Successfully completing the Postgraduate Diploma course is conditional on the realization of three mandatory evaluations elements:

1. **Global approval on Learning control sheets in each curricular unit.** These sheets are multiple choice sheets in an applied context with questions and random answers alternatives and is performed in the *e-learning ULisboa (Moodle)* at the end of each c. u. (minimum grade of 9.5 values).
2. **At the end of the first semester**, an individual work that consists of a critical analysis of a scientific article, namely its methodological section and how the research hypothesis/objectives/questions are well articulated with the proposed data analysis strategy, the results obtained, and the discussion presented (minimum grade of 9.5 values).
3. **At the end of the second semester**, a group work aimed at the application skills acquired in the various curricular units, applying advanced data analysis techniques, and including the analysis, interpretation and reporting of a set of data collected by application of a questionnaire.



Evaluation Elements (Dates due, weights, minimum required grades)

Approval in the **Postgraduate Program in Data Analysis in Psychology** requires obtaining a final weighted average (among the three assessment components) **greater than or equal to 9.5 values** among the following results:

- 1. Average of the grades of all the Learning Control Sheets related to each curricular unit, with a weighting of 50% in the final grade;**
- 2. Grade in the Critical analysis of a scientific article, with a weighting of 25% in the final grade;**
- 3. Grade in an Individual Work with a weighting of 25% in the final grade.**

Rules for grade improvement

The grade improvement may only occur in the assessment elements performed individually.

Rules for students having previously failed the course unit *

Non-applicable

Requirements on attendance and punctuality

Classes operate in a hybrid regime and punctuality and student participation in at least 2/3 of the total number of classes are assumed.

Rules for special students (workers, elite athletes, student body leaders, military, fathers/mothers, with special needs) *

General rules of the FPUL.

Language of instruction

Portuguese but English reading domain is necessary.

Disciplinary violations and penalties

Consult the “Regulamento Geral de Avaliação de Conhecimentos e Competências dos Alunos ([RGACCA](#)) (Capítulo IV)”.



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* If applicable