

**COURSE DATA****DATA SUBJECT****Code:** 42713**Name:** Research in speech therapy**Cycle:** Master's Degree**ECTS Credits:** 6**Academic year:** 2026-27**STUDY (S)**

Degree	Center	Acad. year	Period
2119 - Master's Degree in Speech Therapy Intervention Specialisation	Facultat de Psicologia i Logopèdia	1	Second quarter

**SUBJECT-MATTER**

Degree	Subject-matter	Character
2119 - Master's Degree in Speech Therapy Intervention Specialisation	Research in speech therapy	COMPULSORY

**COORDINATION**

RUIZ RUIZ JUAN C

**SUMMARY**

The "Research in Speech Therapy" course is a required four-month course taught in the Master's Degree in Speech Therapy. It consists of 6 credits to be taken in the second semester and is theoretical and practical in nature.

The course presents the statistical data analysis procedures used in research in speech therapy and related fields. It also presents strategies for searching for scientific information in speech therapy and how scientific communications are formally structured.

The general objective of the Speech Therapy Research course is twofold: first, for students to acquire the knowledge and skills necessary to understand the logic of scientific research and the statistical analysis of the data it generates. Second, for them to acquire the knowledge and skills necessary to locate scientific information and manage and produce scientific texts.

In the initial part of the course, the objective is for students to understand and master the statistical data analysis procedures necessary to understand and evaluate the data generated in research, and so that they themselves can perform statistical data analyses.

In the second part, the objective of the course is to present in detail how scientific information is



written in a structured manner, how scientific texts are edited, and what strategies and resources are available to effectively access scientific information that may be of interest to address both research problems and problems related to the professional practice of speech therapy.

In parallel with the entire previous process, the course aims to provide students with examples and cases so that they can put the content presented throughout the course into practice.

The teaching of this course aims to enable students to assimilate its content, master it in a practical way, and be able to apply it in real-world situations both in research and in the professional practice of speech therapy.

This subject takes into account the Sustainable Development Goals, especially number 3: *Health and well-being*, number 4: *Quality education*, number 5: *Gender equality*, and number 10: *Reduced inequalities*.

## PREVIOUS KNOWLEDGE

### RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

There are no specified enrollment restrictions with other subjects of the curriculum.

### OTHER REQUIREMENTS

It is recommended that students have prior knowledge of statistics (basic knowledge of descriptive and inferential statistics) and computer science (basic knowledge of computer use, web browsing, office software such as word, excel, powerpoint), and a statistical calculation program).

## COMPETENCES / LEARNING OUTCOMES

### 2119 - Master's Degree in Speech Therapy Intervention Specialisation

Adoptar un compromiso ético con los derechos humanos, la igualdad de oportunidades y la no discriminación por razones de género, edad, creencias, discapacidad o por otras razones.

Adquirir conocimientos metodológicos científicos suficientes como para probar hipótesis que supongan un avance en el conocimiento en Logopedia tanto con grupos como en el ámbito clínico del caso único.

Aplicar la metodología científica a la hora de observar, registrar, y comprobar la efectividad y consecuencias de los planes de intervención para fomentar el avance científico de la disciplina.

Comprender y valorar las producciones científicas que sustentan el desarrollo profesional de la Logopedia.

Conocer y valorar de forma crítica diferentes aspectos de la investigación en el ámbito de la Logopedia.

Diseñar y asumir la unificación de los criterios de actuación, que estarán basados en la evidencia científica



y en los medios disponibles y soportados en guías y protocolos de práctica clínica y asistencial.

Elaborar informes justificados que supongan un avance en el conocimiento logopédico.

Manejar nuevos instrumentos, técnicas y bases bibliográficas necesarios para obtener nueva información y la continua actualización de acuerdo con criterios internacionales de excelencia en el campo de la Logopedia.

Participar activamente en proyectos que puedan beneficiar la salud y el bienestar de las personas en situaciones de salud y enfermedad, especialmente en el campo de la prevención de enfermedades, de la educación sanitaria, de la investigación y del intercambio de información con otros profesionales y con las autoridades sanitarias.

Presentar públicamente ideas, procedimientos e informes logopédicos y de asesorar a personas y organizaciones.

Regular su propio aprendizaje, resolver problemas, razonar críticamente y adaptarse a situaciones nuevas.

Ser capaz de seleccionar la información de manera eficaz para alcanzar un avance en el conocimiento logopédico.

Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.

Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.

Students should demonstrate self-directed learning skills for continued academic growth.

## DESCRIPTION OF CONTENTS

### **1. Scientific Methodology in Speech Therapy**

1. The scientific research process.
2. Descriptive statistics: Introduction.
3. Descriptive statistics: Correlation and linear regression.
4. Probability: Introduction, probability distribution models.
5. Inferential statistics: Sampling distribution and hypothesis testing.
6. Introduction to multivariate statistics.

### **2. Preparation and dissemination of research results.**

1. Presentation of the results of scientific research.



2. Structure of a research article: theoretical foundation, objectives and hypotheses, materials and methods, results, discussion, references.
3. Editing a research article: APA format, other formats, the peer review process, online submission.
4. Conference papers and posters: sections, style, and selection process.
5. Planned bibliographic search and databases. Search engines. Search criteria and keywords. Specialized software: Refworks.
6. Scientific productivity and indicators of quality. Selection of publication sources. Publication quality indicators: JCR and SJCR impact factors, other indicators (LATINDEX, IN-RECS, etc.), journal categories and category positions, number of citations. Researcher indicators. Indicators in the Spanish context.

## WORKLOAD

### PRESENCIAL ACTIVITIES

Activity	Hours
Tutorials	10,00
Theory	25,00
Classroom practices	25,00
<b>Total hours</b>	<b>60,00</b>

### NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	10,00
Independent study and work	50,00
Preparation of lessons	10,00
Preparation for assessment activities	10,00
Resolution of case studies	10,00
<b>Total hours</b>	<b>90,00</b>

## TEACHING METHODOLOGY

Theoretical classes with lectures by the professor and student participation in oral or written discussion and reflection on problems.

Seminars and practical activities in the classroom or laboratory supervised by the professor include case resolution, use of computer applications, presentation of work to the group, discussion, and conclusion.

Group work activities.

Individual and group tutoring.



## EVALUATION

The student's evaluation will result in a grade ranging from 0 to 10 points.

This grade is based on the assessment of the following sections:

1. Theoretical and practical exam on the subject's content and cases, problems, and assumptions through written tests in different formats (short answer, objective tests, essays, case studies, or other similar options).

The grade for this performance test, based on the student's level of knowledge acquired, will account for 30% of the final grade. A minimum mastery of 50% in this section is required to pass the course. This section can be retaken in the second sitting.

2. Assessment of student participation in scheduled activities.

Continuous assessment of activities during the course teaching period. The grade for this participation will account for 10% of the final grade. This section cannot be retaken in the second sitting.

3. Supervised reports on research projects and practical activities:

Assessment of practical projects that involve the student's ability to solve practical cases and problems. The grade for these projects will account for 60% of the final grade. A minimum mastery of 50% in this section is required to pass the course. This section can be retaken in the second sitting.

Additional considerations:

1. Only the sections included in the assessment will be added if the minimum requirements established for both mandatory sections are met.

2. If any of the mandatory sections are not passed in the first sitting, the points earned in the other sections will be carried over to the second sitting.

3. The dates for the activities corresponding to section 2 will be established by the teacher throughout the course. They may be individual or group-based and must include content from the teaching guide.

4. The course grade will be subject to the provisions of the Grading Regulations of the University of Valencia (ACGUV 108/2017). According to these regulations, the grade is expressed in numeric terms from 0 to 10 with one decimal place.

5. Any blatant copying or plagiarism of any assignment included in the assessment will result in the inability to pass the course, and the student will be subject to the appropriate disciplinary procedures. In the event of fraudulent practices, the following will be addressed: <https://www.uv.es/sgeneral/Protocols/C83sp.pdf>

6. Please note that, in accordance with Article 13.d) of the University Student Statute (RD



1791/2010, of December 30), students are required to refrain from using or cooperating in fraudulent procedures in assessment tests, in assignments completed, or in official university documents.

7. During tutor hours, teachers may request individual or group interviews to verify the degree of participation and achievement of the objectives set for any assignment. Failure to accept such verification will result in failure to pass the assignment or activity in question.

8. The grade obtained in the FIRST CALL will be included in the academic record according to the following rules:

If there is no grade for assessment section 1 (Theoretical-Practical Exam), the grade will be "NOT PRESENTED," regardless of the other sections.

If there is a grade for assessment section 1 (Theoretical-Practical Exam), and it does not meet the minimum requirements, a FAIL will be recorded, along with a numerical grade based on 10 for the grade for this section.

If there is a grade for assessment section 1 (Theoretical-Practical Exam), and it exceeds the established minimum requirements, but these requirements are not met in any of the other

sections, a FAIL will be recorded, along with a numerical grade based on 10 for the grade for the section for which the student failed the course.

In the SECOND CALL, the following rules will apply:

The NOT PRESENTED option will only be valid if the student has not attended more than one of the assessment sections, including section 1 (Theoretical-Practical Exam).

If there are grades in all assessment sections and the minimum requirements are not met in any of them, the student will be marked as FAIL and the base 10 mark corresponding to the section that was not passed. If more than one section was failed, the highest mark within the fail base 10 mark will be recorded.

If one or more of the minimum requirements are not met and an assessment section is missing, the student will be marked as FAIL and the numerical mark based on 10 for the failed section will be recorded.

If two assessment sections are passed and there is a third for which no assessment evidence has been submitted, the student will be marked as FAIL and, as a grade cation, the average score being 0.0 for the missed section (maximum possible 4.9).

¿¿If the test in section 1 (Theoretical-Practical Examination) is passed, but evidence is missing in one or more of the remaining sections, the student will receive a FAIL. The sections will be added together and: a) if the sum is less than 5, this result will be recorded; b) if the sum is greater than 5, the score will be recorded as 4.9.

9. If the subject is passed in the first sitting, the student will NOT be able to retake the exam in the second sitting in order to improve their grade.



10. Querying and challenging the grade obtained will be subject to the provisions of the University of Valencia's Assessment and Qualification Regulations for Undergraduate and Master's Degree Titles (ACGUV of May 30, 2017).

11. The assignments, activities, or exercises submitted by students in this subject must be their own and original work. In case of using artificial intelligence (ChatGPT or others), the student must provide a statement of responsible use.

## REFERENCES

### Referencias Básicas

- Ritchey, F.J. (2008). Estadística para las ciencias sociales. (2ª edición). McGraw Hill. México.
- Pérez, C. (2008). Técnicas de análisis multivariante de datos: Aplicaciones con SPSS. Pearson Prentice Hall. Madrid.
- <http://www.elsevier.com/editors/perk>
- <http://www.apastyle.org/>

### Referencias Complementarias

Espejo, B.; Checa, I.; Francés, J. (2020). Guía accesible de recursos útiles para realizar el Trabajo de Fin de Grado y el Trabajo de Fin de Máster. Versión Humanidades, Ciencias Sociales y Ciencias de la Salud.

Yepes-Nuñez, J. J., Urrutia, G., Romero-Garcia, M., & Alonso-Fernandez, S. (2021). The PRISMA 2020 statement: an updated guideline for reporting systematic reviews Declaración PRISMA 2020: una guía actualizada para la publicación de revisiones sistemáticas. Revista española de cardiología, 74(9), 790-799

Botella, J. Y Caperos, J.M. (2019). Metodología de investigación en Psicología General Sanitaria. Madrid: Síntesis