

**COURSE DATA****DATA SUBJECT**

Code: 35281
Name: Methodology Fundamentals in Speech Therapy
Cycle: Undergraduate Studies
ECTS Credits: 6
Academic year: 2025-26

STUDY (S)

Degree	Center	Acad. year	Period
1203 - Degree in Speech Therapy	Facultat de Psicologia i Logopèdia	1	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1203 - Degree in Speech Therapy	Methodological foundations of speech therapy	BASIC

COORDINATION

FUENTES DURAN MARIA DEL CASTILLO

SUMMARY

The subject Methodology Fundamentals in Speech Therapy is a core theoretical-practical course taught in the first semester of the first year of the Degree in Speech Therapy.

This subject aims for students to understand the basic aspects related to the scientific research process, covering everything from problem formulation to the communication of results. This is presented within the context of research methodologies and their respective implications for the validity of results and the accumulation of scientific knowledge.

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 basic knowledge of Statistics (basic knowledge of descriptive and inferential statistics) and Information (knowledge of basic computer use, web browsing and office-word, excel, power point,).

COMPETENCES / LEARNING OUTCOMES

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Be able to apply methodological knowledge to solve the problems usually encountered in professional practice.

Be able to collect, analyse and interpret data using statistical software and other information technologies.

Be able to develop skills such as regulating their own learning, solving problems, reasoning critically and adapting to new situations.

Communicate findings and conclusions to patients, their families and other professionals involved in their care, both orally and in writing, considering the sociolinguistic characteristics of the environment.

Know the different research designs, the methods of formulation and testing of hypothesis and the interpretation of results.

Know the principles of the scientific method and the characteristics of the different methods used in speech therapy and their analysis techniques.

Manage the technologies of communication and information.

Students must be able to apply their knowledge to their work or vocation in a professional manner and have acquired the competences required for the preparation and defence of arguments and for problem solving in their field of study.

Students must be able to communicate information, ideas, problems and solutions to both expert and lay audiences.

Students must have acquired knowledge and understanding in a specific field of study, on the basis of general secondary education and at a level that includes mainly knowledge drawn from advanced textbooks, but also some cutting-edge knowledge in their field of study.

Students must have developed the learning skills needed to undertake further study with a high degree of autonomy.

Students must have the ability to gather and interpret relevant data (usually in their field of study) to make judgements that take relevant social, scientific or ethical issues into consideration.

Understand and evaluate the scientific production underpinning the professional development of the speech therapist.

Use the exploration techniques and instruments typical of the profession and record, synthesize and interpret the data provided by integrating them into the information set.



DESCRIPTION OF CONTENTS

1. Introduction to research: Basic concepts.

Descriptive and inferential statistics. Population and sample. Types of sampling. Variables: definition and classification by level of quantification and role in research.

2. Foundations of Scientific Methodology Applied to Speech Therapy.

Science and its methods. Research methodologies. Multimethod perspective. Validity of research results: internal, external, construct, and statistical inference validity.

3. The Scientific Research Process.

The research question. Hypothesis formulation. Operationalization of constructs and measurement. Target population and sample. Defining the design. Research ethics. Data collection and hypothesis testing. Interpretation of results. The research report.

4. Main Designs in Research Applied to Speech Therapy.

Single-factor designs. Post-hoc tests. Correlational designs. Foundations of repeated measures design and mixed design.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	45,00
Classroom practices	15,00
Total hours	60,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	0,00
Individual or group project	25,00
Independent study and work	25,00
Preparation of lessons	10,00
Preparation for assessment activities	20,00



Resolution of case studies	10,00
Total hours	90,00

TEACHING METHODOLOGY

Lectures with audiovisual support, manuals, scientific articles, and other readings and materials. This type of activity aims to teach the more theoretical aspects of the subject.

Practical sessions in a computer lab, seminars, and workshops focused on applied aspects. Here, students, individually or in groups, work with provided materials (tests, articles, computers, software, and databases) to achieve a specific objective. An important characteristic is that a debriefing session, followed by a discussion around the learning objective, takes place. Students take a very active part in the learning process during these sessions. The content of these activities is designed to train students to acquire the necessary competencies.

Completion of exercises on theoretical and applied aspects using self-contained materials.

EVALUATION

Assessment Systems

The assessment system will be the same for both the first and second attempts:

SE1 - Assessment of theoretical and practical content through written exams. This section will account for 80% of the final grade.

SE2 - Oral or written presentation of reports, individual or group assignments, clinical cases, problem-solving, and diagnostic test handling. This section will account for 20% of the final grade. It is recoverable in the second attempt through a competency test.

Minimum Requirements

To pass the course, in both the first and second attempts, a minimum of:

- 4 points out of 8 in SE1.
- 1 point out of 2 in SE2.

WARNING

Manifest copying or plagiarism of any task part of the evaluation will result in the inability to pass the course and will lead to appropriate disciplinary procedures.

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.

Please note that, in accordance with Article 13. d) of the University Student Statute (RD 1791/2010, of December 30), it is a student's duty to refrain from using or cooperating in fraudulent procedures in evaluation tests, assigned work, or official university documents.

In cases of fraudulent practices, action will be taken as determined by the Protocol for Action in Cases of Fraudulent Practices at the University of Valencia (ACGUV 123/2020): <https://www.uv.es/sgeneral/Protocols/C83sp.pdf>

During tutorial hours, instructors may request individual or group interviews to verify the degree of



participation and achievement of the objectives set for any task. Failure to accept such verification will result in not passing the task or activity in question.

GRADING SYSTEM

The course evaluation and the challenging of the obtained grade will be subject to the provisions of the Regulation for Evaluation and Grading of the University of Valencia for Bachelor's and Master's Degrees (ACGUV 108/2017 of May 30, 2017): http://www.uv.es/graus/normatives/2017_108_Reglament_avaluacio_qualificacio.pdf

In accordance with this, grades will be expressed numerically from 0 to 10 with one decimal place, using the following grading scale:

- 0 to 4.9: Fail
- 5 to 6.9: Pass
- 7 to 8.9: Good
- 9 to 10: Excellent or Excellent with Distinction ("MH")

As indicated by the regulations for awarding "MH", it will be strictly by order of grade. In case of a tie, the "MH" will be assigned to the student with the highest grade in SE1. If the tie persists, the grade from section SE2 will be used. If all grades remain equal, the professor may administer an additional test to the involved students.

The different sections included in the evaluation will only be summed if the established minimum requirements for each of them are met.

REFERENCES

Basic:

- Castellanos López, M. A., Pérez Moreno, E. y Simón López, T (2018). *Métodos de investigación en logopedia*. Ed. Síntesis; ISBN: 9788491711131
- Cañadas Osinski, I. y San Luis Costas, C. (2018). *Análisis de Datos en Investigación. Primeros Pasos*. Elche: Universidad Miguel Hernández.

Supplementary:

- Barlow, D.H. y Hersen, M. (1988). *Diseños experimentales de caso único: Estrategias para el estudio del cambio conductual*. Martínez Roca: Barcelona.
- Hernández, R., Fernández-Collado, C. y Baptista, P. (2010). *Fundamentos de metodología de la investigación*. Mexico: McGraw Hill.
- Ritchey, F.J. (2008). *Estadística para las ciencias sociales*. (2ª ed.). Mexico: McGraw Hill