



## Information about the subject

**Degree:** Bachelor of Science Degree in Speech and Language Therapy

**Faculty:** Faculty of Psychology

**Code:** 1172014 **Name:** Methods of language analysis applied to speech and language therapy

**Credits:** 6,00 **ECTS Year:** 2 **Semester:** 2

**Module:** Optatives

**Subject Matter:** Clinical Linguistics **Type:** Elective

**Field of knowledge:** Linguistics

**Department:** -

**Type of learning:** Classroom-based learning

**Languages in which it is taught:** Spanish

**Lecturer/-s:**

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## Module organization

### Optatives

Subject Matter	ECTS	Subject	ECTS	Year/semester
Audiology	18,00	Audiological assessment	6,00	This elective is not offered in the academic year 24/25
		Introduction to Audiology	6,00	This elective is not offered in the academic year 24/25
		Medical Audiology	6,00	This elective is not offered in the academic year 24/25
Neuropsychology	18,00	Clinical Neuropsychology	6,00	This elective is not offered in the academic year 24/25
		Psychogerontology	6,00	This elective is not offered in the academic year 24/25
		Speech therapy intervention in cognitive and neurodegenerative language disorders	6,00	This elective is not offered in the academic year 24/25
Clinical Linguistics	18,00	Acoustic Phonetics	6,00	This elective is not offered in the academic year 24/25
		Bilingualism and speech and language therapy	6,00	This elective is not offered in the academic year 24/25



Clinical Linguistics		Methods of language analysis applied to speech and language therapy	6,00	2/2
Work techniques	24,00	Documentation in health sciences	6,00	This elective is not offered in the academic year 24/25
		Methodologies of professional skills for communication I	6,00	3, 4/2
		Methodologies of professional skills for communication II	6,00	3, 4/2
Educational processes and contexts	24,00	Design and assessment of educational action plans	6,00	This elective is not offered in the academic year 24/25
		Didactics and educational innovation	6,00	This elective is not offered in the academic year 24/25
		Educational fundamentals and school organisation	6,00	This elective is not offered in the academic year 24/25
		Teaching-Learning Processes in the Classroom: Techniques and Tools	6,00	This elective is not offered in the academic year 24/25
Sign Language	24,00	Communication systems for the deafblind	6,00	This elective is not offered in the academic year 24/25
		Spanish Sign Language I	6,00	This elective is not offered in the academic year 24/25



Sign Language		Spanish Sign Language II	6,00	This elective is not offered in the academic year 24/25
		Spanish Sign Language III	6,00	This elective is not offered in the academic year 24/25
Psychology	18,00	Child and Adolescent Clinical and Health Psychology	6,00	This elective is not offered in the academic year 24/25
		Psychopathology in adults	6,00	3/1
		Psychopathology in children and adolescents	6,00	2/1
Intensification of clinical practice	18,00	Internship in clinical settings 2	6,00	This elective is not offered in the academic year 24/25
		Internship in clinical settings 3	6,00	This elective is not offered in the academic year 24/25
		Internships in clinical settings 1	6,00	This elective is not offered in the academic year 24/25

## Recommended knowledge

Knowledge of the anatomy and physiology of the musculature involved in the stomatognathic system.  
Knowledge of phonetic-phonological development.



## Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1      Knowing how to analyze the segmental and suprasegmental elements of speech
- R2      Be able to use basic hardware and software used in the acoustic analysis of speech
- R3      Be able to integrate a multilingual perspective in speech therapy
- R4      Make efficient use of the fundamental concepts of acoustics focused on speech and voice sound analysis.



## Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

SPECIFIC	Weighting			
	1	2	3	4
CE3 Understand and integrate the linguistic foundations of Speech: Phonetics and phonology, morphosyntax, semantics, pragmatics, and sociolinguistics		X		
CE4 Understand and integrate the educational foundations of speech therapy: teaching and learning processes	X			
CE11 Know the classification, terminology and description of communication disorders, language, speech, and voice, in addition to hearing and nonverbal oral functions		X		
CE23 Understand, apply and critically evaluate teaching techniques and teaching methodology, in addition to resources for teaching language	X			
CE26 To acquire practical knowledge for speech-language evaluation.				X
CE33 Final project involving transversally applicable material; to be carried out in association with different subjects				X
CE36 To use the techniques and tools of exploration specific to the profession, and record, synthesize and interpret the data provided by integrating them into the set of information.				X
CE37 Master the terminology that allows one to interact effectively with other professionals		X		
CE42 Understand and appreciate the scientific underpinning in the professional development of speech therapy		X		
CE45 Promote communication skills in the general population	X			
CE47 Know and be able to integrate the biological (anatomical and physiological), psychological (and evolutionary development processes), linguistic and pedagogical foundations of speech therapy intervention in communication, language, speech, hearing, speech and non-verbal oral functions				X



CE53 Have adequate speech production, structure of language and voice quality

x

## TRANSVERSAL

## Weighting

1 2 3 4

CT1 Use the techniques of verbal and nonverbal communication in order to optimize relevant communicative situations

x

CT5 Recognize, analyze and obtain solutions to ethical problems in professional practice situations

x

CT6 Adapt to new situations arising in their profession

x

CT7 Having an open and flexible attitude to lifelong learning

x

CT8 Know and use of technical advances in the exercise of their profession

x



## Assessment system for the acquisition of competencies and grading system

Assessed learning outcomes	Granted percentage	Assessment method
	90,00%	Oral and/or written tests: exams, reports, resolution of internships.
	10,00%	Attendance, participation, continued work.

### Observations

**In order to pass the course, the student must pass the different assessment systems separately:**

·Written test (30%). Examination. Practical exercises (60%). It is necessary to present all the practicals and achieve a minimum grade of 5 in each of them in order to be considered in the final average.

·Attendance, participation, continuous work (10%). It is required to attend at least 80% of the sessions and complete the classroom activities.

**Criteria for the awarding of Honours Grades: evidence of excellence in all competences and learning outcomes.**

In accordance with the regulations governing the assessment and grading of subjects in force at UCV, the distinction of "Matrícula de Honor" (Honours with Distinction) may be awarded to students who have achieved a grade of 9.0 or higher. The number of "Matrículas de Honor" (Honours with Distinction) may not exceed five percent of the students enrolled in the group for the corresponding academic year, unless the number of enrolled students is fewer than 20, in which case a single "Matrícula de Honor" (Honours with Distinction) may be awarded.

Exceptionally, these distinctions may be assigned globally across different groups of the same subject. Nevertheless, the total number of distinctions awarded will be the same as if they were assigned by group, but they may be distributed among all students based on a common criterion, regardless of the group to which they belong. The criteria for awarding "Matrícula de Honor" (Honours with Distinction) will be determined according to the guidelines stipulated by the professor responsible for the course, as detailed in the "Observations" section of the evaluation system in the course guide.





## Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Participative lectures: strategies focused on the transmission of information from teachers to students. Student participation is promoted with hybrid methodologies, in order to consolidate knowledge and encourage critical thinking.
- M2 Practical Class. Classroom practice, laboratory practice and/or simulations: methodologies based on student interaction with problems, technologies, samples or analysis equipment, in order to incorporate experimentation to knowledge.
- M3 Case studies and analysis of clinical histories: students build knowledge from information on cases provided to them. In addition to providing the material, the teacher acts as a guide in the search for the solution.
- M4 Internships in real environments (in-company learning): students participate in the action of their specialty in work centers, approaching the role of the speech therapist.
- M5 Internships in real environments (in-company learning): students participate in the action of their specialty in work centers, approaching the role of the speech therapist.
- M6 Service-Learning: methodology that merges the learning process of students with the intention of providing a real and solidary service in society. Students participate in the selection of objectives and design of actions. Teachers act as guides to develop knowledge in the process.



## IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
<p>THEORETICAL CLASSES. Lectures, expository and participative classes. They focus on the approach, analysis and development of competences: explanation and orientation towards the acquisition of the necessary knowledge, instruction in the derived skills and acquisition of professional aptitudes. M1, M3</p>	R3, R4	10,00	0,40
<p>PRACTICAL CLASSES. Individual or group work sessions supervised by the teacher. Analysis of materials related to the subjects: reports, statistics, scientific literature, tests and evaluation tests, problem solving, visualization of clinical histories, simulation of cases, etc. M2, M3</p>	R1, R2, R3, R4	11,00	0,44
<p>LABORATORY PRACTICES: Laboratory activities for obtaining, analyzing and interpreting samples. Learning of measurement techniques by means of instruments. Learning of safety measures. M2</p>	R1, R2, R3	35,00	1,40
<p>TUTORIALS: Individual or small group meetings to personalize any aspect of the teaching-learning process M6</p>	R3, R4	2,00	0,08
<p>EVALUATION: Set of tests in oral, written, or other audiovisual media. It includes the final exams (exams and presentation of work) and all the elements of continuous evaluation that contribute in a weighted way to the final grade (presentation of work, scheduled activities, questionnaires, etc.) The public presentation of the Final Degree Project is included. M1, M6</p>	R1, R2, R3, R4	2,00	0,08
<b>TOTAL</b>		<b>60,00</b>	<b>2,40</b>



## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
<p><b>GROUP WORK:</b> Group preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or delivered in theory classes, practical classes or small group tutorials.</p> <p>M2, M3</p>	R1, R2, R3	30,00	1,20
<p><b>AUTONOMOUS WORK:</b> Personal study of the student. Individual preparation of readings, essays, problem solving, seminar material, papers, reports, etc. to present or deliver in class, complete their training activity and prepare their evaluation tests.</p> <p>M2, M3</p>	R1, R2, R3, R4	60,00	2,40
<b>TOTAL</b>		<b>90,00</b>	<b>3,60</b>

## Description of the contents

Description of the necessary contents to acquire the learning outcomes.

### Theoretical contents:

Content block	Contents
Analysis of speech samples focused on phonological disorders.	Procedure for obtaining speech samples, recording, transcription and analysis. Obtaining parameters. Integration of complementary clinical measures in decision making for speech therapy intervention in children with phonological disorders.
Technological applications in speech therapy.	Use and management of advanced technologies for the evaluation of speech, voice and orofacial motor disorders. Interpretation of results Elaboration of clinical reports



## Temporary organization of learning:

Block of content	Number of sessions	Hours
Analysis of speech samples focused on phonological disorders.	15,00	30,00
Technological applications in speech therapy.	15,00	30,00



## References

- Besomi, M., Hodges, P. W., Clancy, E. A., Van Dieën, J., Hug, F., Lowery, M., Merletti, R., Søgaard, K., Wrigley, T., Besier, T., Carson, R. G., Disselhorst-Klug, C., Enoka, R. M., Falla, D., Farina, D., Gandevia, S., Holobar, A., Kiernan, M. C., McGill, K., ... Tucker, K. (2020). Consensus for experimental design in electromyography (CEDE) project: Amplitude normalization matrix. *Journal of Electromyography and Kinesiology*, 53, 102438. <https://doi.org/10.1016/j.jelekin.2020.102438>
- Besomi, M., Hodges, P. W., Van Dieën, J., Carson, R. G., Clancy, E. A., Disselhorst-Klug, C., Holobar, A., Hug, F., Kiernan, M. C., Lowery, M., McGill, K., Merletti, R., Perreault, E., Søgaard, K., Tucker, K., Besier, T., Enoka, R., Falla, D., Farina, D., ... Wrigley, T. (2019). Consensus for experimental design in electromyography (CEDE) project: Electrode selection matrix. *Journal of Electromyography and Kinesiology*, 48, 128-144. <https://doi.org/10.1016/j.jelekin.2019.07.008>
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- Calvache, C.A. (2015). Objetividad de la electroglotografía. Aplicaciones clínicas e investigativas en la voz. *Revista de Logopedia, Foniatría y Audiología* 35(3), 134-142.
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- Pascual-Soriano, A., Cervera-Mérida, J. F. (2022). Tratamiento de la nasalidad transpalatal en un caso complejo con trastorno fonológico. *Revista de Investigación en Logopedia* 12(1), e72880. <https://dx.doi.org/10.5209/rlog.72880>
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