



## Information about the subject

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

**Faculty:** Faculty of Psychology

**Code:** 1172008 **Name:** Acoustic Phonetics

**Credits:** 6,00 **ECTS Year:** The course is not offered this academic year **Semester:**

**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:**

**Lecturer/-s:**



## 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 23/24
		Introduction to Audiology	6,00	This elective is not offered in the academic year 23/24
		Medical Audiology	6,00	This elective is not offered in the academic year 23/24
Neuropsychology	18,00	-Biology of human behavior	6,00	This elective is not offered in the academic year 23/24
		Clinical Neuropsychology	6,00	This elective is not offered in the academic year 23/24
		Psychogerontology	6,00	This elective is not offered in the academic year 23/24
Clinical Linguistics	18,00	Acoustic Phonetics	6,00	This elective is not offered in the academic year 23/24
		Bilingualism and speech and language therapy	6,00	This elective is not offered in the academic year 23/24



Clinical Linguistics		Methods of language analysis applied to speech and language therapy	6,00	
Work techniques	18,00	Documentation in health sciences	6,00	This elective is not offered in the academic year 23/24
		Methodologies of professional skills for communication I	6,00	
		Methodologies of professional skills for communication II	6,00	
Educational processes and contexts	18,00	Design and assessment of educational action plans	6,00	This elective is not offered in the academic year 23/24
		Didactics and educational innovation	6,00	This elective is not offered in the academic year 23/24
		Educational fundamentals and school organisation	6,00	This elective is not offered in the academic year 23/24
		Teaching-Learning Processes in the Classroom: Techniques and Tools	6,00	This elective is not offered in the academic year 23/24
Sign Language	18,00	Communication systems for the deafblind	6,00	This elective is not offered in the academic year 23/24
		Spanish Sign Language I	6,00	0/1



Sign Language		Spanish Sign Language II	6,00	This elective is not offered in the academic year 23/24
		Spanish Sign Language III	6,00	This elective is not offered in the academic year 23/24
Psychology	18,00	Clinical psychopathology and of health in children and adolescents	6,00	
		Psychopathology in adults	6,00	
		Psychopathology in children and adolescents	6,00	

### 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 Be able to use fundamental concepts of acoustics related to analysis of speech and voice
- R2 Knowing how to analyze the segmental and suprasegmental elements of speech
- R3 Be able to use basic hardware and software used in the acoustic analysis of speech
- R4 Knowing how to interpret data obtained in a linguistic 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
CE11	Know the classification, terminology and description of communication disorders, language, speech, and voice, in addition to hearing and nonverbal oral functions	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		
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	
TRANSVERSAL		Weighting			
		1	2	3	4
CT1	Use the techniques of verbal and nonverbal communication in order to optimize relevant communicative situations		X		
CT6	Adapt to new situations arising in their profession			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
R1, R2, R3, R4	50,00%	Written exam
R1, R2, R3, R4	40,00%	Practical work assignments assessment
R3	10,00%	Attendance and participation of in-person formative activities

### Observations

## Learning activities

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

M1	On-Campus Class
M2	Practical Class
M3	Seminar
M4	Laboratory
M5	Individual Work



- M6      Group Work
- M7      Work Exhibition
- M8      Clinical Case Analysis
- M9      Prácticas en clínicas y centros



## IN-CLASS LEARNING ACTIVITIES

	LEARNING OUTCOMES	HOURS	ECTS
ON-CAMPUS CLASS. Teacher presentation of contents, analysis of competences, explanation and in-class display of skills, abilities and knowledge M1	R1, R2, R3, R4	24,00	0,96
PRACTICAL CLASSES. Group work sessions supervised by the professor. Case studies, diagnostic tests, problems, field work, computer room, visits, data search, libraries, on-line, Internet, etc. Meaningful construction of knowledge through interaction and student activity M2	R2, R4	12,00	0,48
GROUP WORK EXHIBITION. Application of multidisciplinary knowledge M7	R1, R4	6,00	0,24
SEMINAR. Supervised monographic sessions with shared participation M3	R1, R3	6,00	0,24
OFFICE ASSISTANCE. Personalized and small group attention. Period of instruction and/or orientation carried out by a tutor to review and discuss materials and topics presented in classes, seminars, papers, etc. M3	R1, R3	9,00	0,36
ASSESSMENT. Set of oral and/or written tests used in initial, formative or additive assessment of the student M1	R1, R2, R3, R4	3,00	0,12
<b>TOTAL</b>		<b>60,00</b>	<b>2,40</b>





## LEARNING ACTIVITIES OF AUTONOMOUS WORK

	LEARNING OUTCOMES	HOURS	ECTS
GROUP WORK. Group preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform M6	R1, R2, R3, R4	36,00	1,44
INDEPENDENT WORK. Student study: Individual preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform M5	R1, R2, R3, R4	54,00	2,16
<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
Introduction: Phonetics and Experimental Method	Articulatory phonetics, acoustic phonetics and perceptive phonetics. The experimental method. The design of the experiment: corpus, subjects, recording and analysis of the results
Segmental analysis of vowel elements	Vowel formants, duration and intensity. Vowel reduction and vowel centralization CV, VC and VCV coarticulation
Segmental analysis of consonant sounds	Plosives sounds (spirantized vs non- <i>spirantized</i> allophones) Fricative sounds Sonant sounds: nasals, laterals, rhotics and glides
Suprasegmental analysis	General aspects of intonation and prosody Spanish intonation



## Temporary organization of learning:

Block of content	Number of sessions	Hours
Introduction: Phonetics and Experimental Method	6,00	12,00
Segmental analysis of vowel elements	7,00	14,00
Segmental analysis of consonant sounds	12,00	24,00
Suprasegmental analysis	5,00	10,00

## References

- Borden, G. J. & K. S. Harris (2006): *Speech Science Primer*. Philadelphia: Lippincott Williams and Wilkins (5<sup>a</sup> ed.)
- Katz, W. F. & P. F. Assmann, eds. (2019): *The Routledge Handbook of Phonetics*. London: Routledge, Taylor & Francis Group.
- Laver, J. (1994): *Principles of phonetics*. Cambridge: CUP.
- Laver, J. (2009): *The phonetic description of voice quality*. Cambridge: CUP.
- Llisterri Boix, J. (1991): *Introducción a la fonética: el método experimental*. Barcelona: Anthropos.
- Martínez Celdrán, E. & A. M. Fernández Planas (2013): *Manual de fonética española. Articulaciones y sonidos del español*. Barcelona: Ariel.
- Martínez Celdrán, E. (2007): *Análisis espectrográfico de los sonidos del habla*. Barcelona: Ariel (2<sup>a</sup> ed.)
- Tatham, M. & K. Morton (2011): *A Guide to Speech Production and Perception*. Edinburgh: EUP.
- Tatham, M. & K. Morton (2011): *Speech Production and Perception*. NY: Palgrave Macmillan.