

**COURSE DATA****DATA SUBJECT****Code:** 35299**Name:** Speech Therapy Intervention in Neurodegenerative Disorders**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	3	First quarter

SUBJECT-MATTER

Degree	Subject-matter	Character
1203 - Degree in Speech Therapy	Speech therapy intervention in neurodegenerative disorders	COMPULSORY

COORDINATION

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SUMMARY

The subject "Speech therapy intervention in neurodegenerative disorders" will provide students with basic and applied knowledge about the non-pharmacological therapeutic treatment currently used with patients affected by neurodegenerative pathologies of the Central Nervous System. This is a deep-seated issue in today's society given the number of dementias that are diagnosed every day and the great impact they have on the daily life of these patients, both in language and in other areas of cognition. This subject is connected to the subject studied in the second year "Neurodegenerative disorders", in which students have acquired the necessary theoretical knowledge and sufficient practical skills to make the diagnosis of a patient with dementia and its precise neuropsychological and speech therapy profile. It begins by delimiting the field of action of speech therapy intervention in the elderly population and in neurodegenerative disorders through two fundamental notions: the concept of quality of life and the functional therapeutic plan, which is inserted in the International Classification of Functioning model, Disability and Health (CIF). The subject deals with the concept of cognitive stimulation in depth, emphasizing the part referring to language and its possibilities of stimulation/rehabilitation in dementias; the neurobiological bases that enable the very existence of cognition treatment as well as training on action protocols in functional areas of cognition and specific cognitive stimulation programs. After that, the development of the subject by blocks will allow students to deepen their knowledge and application of the different strategies and



updated speech therapy intervention programs in the field of neurodegenerative diseases in relation to the processes of expression, non-verbal oral functioning and communication.

PREVIOUS KNOWLEDGE

RELATIONSHIP TO OTHER SUBJECTS OF THE SAME DEGREE

1203 - Degree in Speech Therapy

Obligation to have previously passed the subject(s)

35272 - Anatomy of Language and Hearing Organs

35273 - Physiology of Language and Hearing Organs

35291 - Neurodegenerative Disorders

OTHER REQUIREMENTS

It is highly recommended to have acquired fluency when conducting a neuropsychological evaluation and speech therapy to people over 65 years, including patients with a neurodegenerative disorder, since it is part of the basis for the intervention under this subject.

COMPETENCES / LEARNING OUTCOMES

1203 - Degree in Speech Therapy

Be able to plan an intervention in a clinical case of neurodegeneration.

Design and conduct speech therapy treatments, both individual and collective, by setting targets and stages, with the most effective and adequate methods, techniques and resources, and bearing in mind the different life developmental stages as well as gender perspective.

Have an adequate speech production, language structure and voice quality.

Know the different techniques of intervention in neurodegenerative disorders.

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 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.



DESCRIPTION OF CONTENTS

1. Framework of speech therapy intervention in neurodegenerative disorders

The purpose of this thematic unit is to delimit the field of action of speech therapy intervention in the elderly population and in neurodegenerative disorders through two fundamental notions: the concept of quality of life and the functional therapeutic plan, which is inserted in the model of International Classification of Functioning, Disability and Health (ICF).

2. Speech therapy intervention in motor speech disorders and non-verbal oral functions in neurodegenerative diseases

In this thematic unit, the different approaches, techniques and speech therapy intervention programs focused on addressing the different alterations of expression and non-verbal oral functions in the population with neurodegenerative diseases are exposed.

3. Cognitive Stimulation

Conceptual definition. It defines the meaning of the Cognitive Stimulation and Cognitive Rehabilitation difference with reference to the type of target patients and expectations to weigh in therapy. Variables related to cognitive training.

4. Protocols in Cognitive Stimulation and specific programs of Cognitive Stimulation

In this thematic unit, the Cognitive Stimulation programs are deepened: ROT (Orientation to reality); Reminiscence; GRT (Global Reactivation Therapy; PECA (Adesma Cognitive Stimulation Program), PPI (Integral Psychostimulation Program), Snoezelen Stimulation. Cognitive stimulation platforms organized around the intervention of functional areas are also disclosed.



5. Speech therapy intervention in the disorders of language and communication in the neurodegenerative diseases

The communication and the dementias: characterization and therapeutic approaches. The functional approach in the speech disorders. Speech therapy intervention programs in the alterations of the communication in the neurodegenerative disorders. Design and implementation of Augmentative and Alternative Communication (AAC) systems as a potential resource for supporting neurodegenerative diseases communication.

6. Ethical implications of speech therapy intervention in neurodegenerative diseases

Transversal theme that is developed, throughout the different thematic units, through the analysis of assumptions and real cases. The contents of this unit cover family care and the patient's life context; Ethical and deontological issues of speech therapy practice as well as the analysis of intervention perspectives and speech therapy action frameworks in neurodegenerative diseases. Family counselling and reporting.

WORKLOAD

PRESENCIAL ACTIVITIES

Activity	Hours
Theory	45,00
Laboratory	15,00
Total hours	60,00

NON PRESENCIAL ACTIVITIES

Activity	Hours
Attendance at other activities	5,00
Individual or group project	30,00
Independent study and work	35,00
Preparation of lessons	15,00
Preparation for assessment activities	0,00
Resolution of case studies	5,00
Total hours	90,00

TEACHING METHODOLOGY

- Lectures by power-point presentations and video attachments on intervention in neurodegenerative diseases related to the clinic speech treatment.
- Practice about how to do interventions in neurodegenerative diseases and videos with real patient case



studies on various interventions in neurodegenerative diseases.

- Scheduled individual and group tutorials.
- Supervision of practical work, guidance and resolution of doubts.
- Independent work of student case review, preparation of practical work, intervention programming in neurodegenerative disorder, and reporting.
- Student study, preparation and conduct of the evaluation tests.

EVALUATION

The information to obtain the final grade for the subject will be obtained through two basic procedures: individual final evaluation (final exam) and continuous or progress evaluation (activities, reports and/or individual and group work).

The final individual evaluation, which will reflect the level reached at the end of the learning process of the subject, will be carried out at the end of the face-to-face period and will represent 70% of the grade for the subject, with a maximum value of 7. The exam will be theoretical. -practical through multiple choice questions with three alternatives and may include several practical cases with closed questions related to the case. It will be necessary to obtain a grade of 5 in this test to pass the subject.

The continuous or progress evaluation of the work done by the students throughout the course will be carried out based on the reports, written and oral comments and activities carried out in the practical sessions that will deal with speech therapy intervention in real cases of patients with neurodegenerative disorders. This evaluation will represent 30% of the course grade. Within the continuous evaluation, two distinct parts are distinguished:

1.- Report of the practical sessions. A single practice report will be made with a maximum value of 2.50 points. The characteristics will be detailed at the beginning of the course. It will be necessary to obtain a grade of 5 in the report to pass the subject.

2.- Other activities carried out in face-to-face classes: individual work and active participation in activities carried out in class, etc. The value of this part is a maximum of 0.50 points.

Attendance at practical classes is mandatory and to pass the subject you will need to attend at least 80% of the classes. Non-attendance must be due to well-documented reasons of force majeure (surgent health condition, death of a relative up to the third degree, court summons, official examination, accompaniment to a first-degree relative for medical reasons).

The marks obtained in the Report of the practical sessions will be saved for the second call. Work that is not submitted in the required time and manner will be recoverable through a written test that will be taken at the end of the official final test.

The teacher may require individual or small group interviews to verify the degree of participation and the achievement of the objectives pursued in any task developed. Failure to accept this verification will mean failing the task/activity in question.



Given the characteristics of the subject and the degree, a high command of written language will be required in the presentation of reports and written activities.

University honors marks (HM) will be awarded to those students whose grade in the subject is equal to or greater than 9 and the highest in their group. Obtaining honors is subject to taking an extraordinary oral exam in the event that two students have the same grade and it is only possible to award an MH. In no case will the grade be deducted.

The manifest "copy" of any test, task, activity or report, whether individual or group, that serves for evaluation purposes in the subject, will make it impossible to pass the subject. In the event of fraudulent practices, the procedure will be determined as determined by the Protocol for action against fraudulent practices at the University of Valencia (ACGUV 123/2020): <https://www.uv.es/sgeneral/Protocols/C83sp.pdf>

REFERENCES

Basic

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- De las Heras, G., y Simón, T. (2018). Logopedia y enfermedades neurodegenerativas. Valencia: Nau LLibres.
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Supplementary

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- Simmons-Mackie, N., King, J., y Beukelman, D. (2013). *Supporting Communication for Adults with Acute and Chronic Aphasia (Augmentative and Alternative Communication Series)*. Brookes Publishing Co.