

**Neurodegenerative Diseases and Dementias**

Code: 101711  
ECTS Credits: 9

Degree	Type	Year	Semester
2500893 Speech therapy	OB	3	1

## Contact

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## Use of Languages

Principal working language: catalan (cat)  
Some groups entirely in English: No  
Some groups entirely in Catalan: Yes  
Some groups entirely in Spanish: No

## Teachers

Berta Pascual Sedano  
Joan Martí Fàbregas  
Laura Auge Domenech  
Javier Pagonabarraga Mora

## Prerequisites

It is recommended to have studied Neurology of Language of 2nd course

## Objectives and Contextualisation

The syllabus includes the main neurodegenerative diseases that determine cognitive and language disorders in both children and adults, and prepares students for the systematic study of language pathology and accompanying neuropsychological disorders caused by these diseases, introducing them into special rehabilitation techniques. In addition to the main neurodegenerative diseases, which mainly include dementia and Parkinson's disease and Parkinson's disease, other neurological processes of interest to the student have been included in this subject and that may involve affectation of cognition and speech or language, such as stroke, epilepsy, Tourette's syndrome, multiple sclerosis and traumatic brain injury.

Other subjects of the Degree in Speech Therapy delve into specific aspects of the rehabilitation of language, speech and swallowing disorders: Language Neurology (101,710), Dysphagia and Related Disorders (101712), Applied Technological Innovation (101,694), Practicum III (101,696).

At the end of the course it is intended that the student is able to identify the main characteristics of neurodegenerative diseases that they can take with language and / or speech problems, as well as to evaluate these disorders and propose an appropriate intervention. You should also be aware of the family and social implications of this type of disorder and the need for a multidisciplinary approach.

## Competences

- Act appropriately with respect to the profession's ethical code: respect professional confidentiality, apply professional criteria in the completion and referral of treatment.
- Demonstrate knowledge of the limits of competence and be able to identify whether interdisciplinary treatment is required.
- Ethically commit oneself to quality of performance.
- Explore, evaluate, diagnose and produce a prognosis of development for disorders of communication and language, from a multidisciplinary perspective.
- Managing communication and information technologies.
- Project design and management.

## Learning Outcomes

1. Act ethically in cases of patients observed in practical sessions, as well as in interaction with the families of patients.
2. Describe aspects of the rehabilitation of disorders in speech, language and deglutition that require joint action by professionals from various disciplines (neurologists, physiotherapists, psychologists, etc).
3. Ethically commit oneself to quality of performance.
4. Identify key items of the code of ethics for speech therapists and discuss their implications.
5. Managing communication and information technologies.
6. Project design and management.
7. Use the most appropriate techniques to diagnose and issue a prognosis for the evolution of language, speech and deglutition disorders of neurological origin.

## Content

### Theoretical part

#### a) Medical theory of neurodegenerative diseases and other neurological diseases

##### I. Alzheimer's disease and other dementias

##### II. Parkinson's disease

##### III. Parkinsonisms: multisystemic atrophy, progressive supranuclear paralysis, and corticobasal degeneration

##### IV. Traumatic brain injuries and states of consciousness

##### V. Stroke

##### VI. Neuromuscular diseases

##### VII. Multiple sclerosis

##### VIII. Ataxias, corees and Tourette's syndrome

#### b) Theory of speech therapy rehabilitation of dementia and degenerative diseases

##### I. Patients with dementia or neurodegenerative disease: change in their life and environment, first visit: information collection. estimation.

##### II. Language in the elderly

##### III. Theory of the rehabilitation of the processes studied in medical theory of degenerative diseases and dementias

## Methodology

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

## Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Internship	20	0.8	1, 3, 2, 6, 7
Theoretical classes	42	1.68	3, 2, 6, 5, 7
Type: Supervised			
Clinical case study	38.5	1.54	1, 3, 2, 6, 4, 5, 7
Type: Autonomous			
personal study and teamwork	120	4.8	1, 3, 2, 6, 4, 5, 7

## Assessment

Students will be evaluated throughout the semester through two theoretical tests (one of which will correspond to medical theory and another to the theory of speech therapy rehabilitation) and practical work

Note: The proposed teaching methodology and evaluation may undergo some modification depending on the restrictions on face-to-face learning imposed by the health authorities. The teaching team will detail through the moodle classroom or the usual media the face-to-face or virtual / on-line format of the different directed and evaluation activities, taking into account the indications of the teaching staff according to what the health situation allows.

### Final note

It will be obtained from the weighted average between the qualifications of the three parts of the subject: the two theoretical parts (medical and rehabilitation) and the practical part according to the following proportion:

- . 40% medical theory of dementia and degenerative diseases (EV1) First assessment period
- . 40% theory of speech therapy rehabilitation of degenerative diseases and dementias (EV2) Second assessment period,
- . 20% practical (EV3). First or second assessment period depending on the class group

Evidences 1 and 2 will be face-to-face and written, through a test type test. Evidence 3 will be face-to-face and written through the analysis of a case study

It is necessary to pass (with a grade of 5 or more points) each of the three parts separately to obtain the final grade of the subject. In case of suspending one of the parts, the recovery will be made only of the part not surpassed and the rest of the qualifications will be saved to make the half weighted backwards.

An approved subject will be considered if the weighted average of the three parts is 5 or more points

In case of suspending one of the parts, the recovery will be done only of the part not surpassed and will save the rest of qualifications to do the half weighted back.

## RECUPERATION

To be eligible for recuperation it is necessary to have been evaluated in a minimum of 2/3 of the final grade.

It is not foreseen that the alums of 2nd or later matrícula will evaluate by means of a single proof of synthesis no recoverable

<https://www.uab.cat/web/estudiar/graus/graus/avaluacions-1345722525858.html>.

## Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
EV1 Medical part (test)	40	2.5	0.1	1, 2, 4, 7
EV2 Rehabilitation part (Test)	30	2	0.08	1, 3, 2, 5, 7
EV2 Rehabilitation part (case study)	10	0	0	1, 3, 2, 6, 4, 5, 7
EV3 Practical part	20	0	0	1, 3, 2, 6, 4, 5, 7

## Bibliography

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- Martínez-Sánchez F, Meilán JJ, Carro J, Gómez Íñiguez C, Millian-Morell L, Pujante Valverde IM, López-Alburquerque T, López DE. Speech rate in Parkinson's disease: A controlled study. Neurologia. 2016 Sep;31(7):466-72.
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\* in bold type the main bibliography

## **Software**

No aplicable