

Clinical Neuropsychology

Code: 102544
ECTS Credits: 6

Degree	Type	Year	Semester
2502443 Psychology	OT	4	1

Errata

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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: Yes

Prerequisites

No prerequisites are required.

However, it is advisable to review the cerebral anatomy and its main transmission systems, since the psychobiologic knowledge contributes to locate and to understand more easily the disorders related with brain disfunction.

Objectives and Contextualisation

Neuropsychology helps to understand the cognitive functioning of human beings, and allows us to know the alterations that can be observed in people suffering from brain dysfunction or injury. During the last decades, the relevance of this discipline has been increasing, to the point of becoming essential in the group work of many diagnostic and intervention teams for patients with cognitive disorders, both in the adult and child area. Clinical Neuropsychology framed, then, in the field of Clinical Psychology and its contents are projected at the level of diagnosis and intervention.

In this context, the following objectives for the students are proposed:

- 1 - To Learn the main areas of intervention in neuropsychology, and identify which people are susceptible to intervention by a professional expert in neuropsychology.
- 2 - To Know different and common neurological diseases in adults and children who usually cause cognitive and behavioral disorders.
- 3 - To understand which are the brain mechanisms that are involved in cognitive disorders
- 4 - To know which are the main cognitive disorders observed in clinical practice and which of them are indicators of brain dysfunction.

5 - To have an overview of the relevance of working in a multidisciplinary team and learn to detect possible indicators of brain dysfunction

Competences

- Criticise the effects of personal practice on people, taking into account the complexity of human diversity.
- Formulate hypotheses about the demands and needs of the recipients.
- Maintain a favourable attitude towards the permanent updating through critical evaluation of scientific documentation, taking into account its origin, situating it in an epistemological framework and identifying and contrasting its contributions in relation to the available disciplinary knowledge.
- Obtain and organise relevant information for the service requested.
- Recognise the diversity of human behaviour and the nature of differences in it in terms of normality abnormality and pathology.

Learning Outcomes

1. Apply communication skills.
2. Criticise the effects of personal practice on people, taking into account the complexity of human diversity.
3. Demonstrate knowledge of the lexicon of the subject.
4. Formulate hypotheses and identify factors that determine the current problematic behaviour.
5. Maintain a favourable attitude towards the permanent updating through critical evaluation of scientific documentation, taking into account its origin, situating it in an epistemological framework and identifying and contrasting its contributions in relation to the available disciplinary knowledge.
6. Make diagnoses of psychological disorders in practical clinical cases presented.
7. Recognise the psychopathology of each disorder, associated symptoms, and epidemiological trends.
8. Summarise the principle factors and variables of functional behavioural analysis.

Content

1: General introduction

to. Definition

b. Areas of study and intervention in Neuropsychology

c. Historical background of current neuropsychology

2: Lateralization and hemispheric connection

a). Brain asymmetries in the organization of cognitive functions

b. Language and manual laterality

c. Brain organization of cognitive functions.

3: Cerebral assessment techniques

a. Historical techniques: The use of tachistoscopia in Neuropsychology. Dichotic listening

b. Introduction to brain neuroimaging: the value of CT, MRI, PET and SPECT in Clinical Neuropsychology.

c. Clinical assessment organization

4: Attention Disorders

a. The Acute Confusional State

b. The Neglect Syndrome

5: Memory disorders

a. Amnesias: Description of the main causes and the most frequent pathologies that causes amnesia: Traumatic Brain Injury, Korsakoff syndrome, anoxias, encephalitis ...

b. Neurological versus psychogenic amnesia

c. Transient amnesias: Transient Global Amnesia, amnesia secondary to TEC, Epilepsy ...

6: Language diseases:

a. aphasia

b. alexia

c. agraphia

7: agnosia:

a. visual agnosia

b. auditory agnosia

c. tactile agnosia

8: Apraxia:

a. Mechanisms and circuits involved in apraxia

b. Main apraxias (ideomotor, ideatory, constructive, etc.)

9: The frontal lobe diseases

a. cognitive disorders

b. behavioral disorders

c) Main frontal lobe syndromes

10: Introduction to brain pathology which causes cognitive and behavioral deficits

to. Neuropsychology of dementias

b. Cerebral vascular pathology and cognition

c. Traumatic Brain Injury and Cognitive Deficits

Methodology

The teaching methodology is based on two blocks:

a) Classes in the classroom with the whole group: in the form of interactive lecture / teaching to guide the student in the basic content schemes that will allow him to expand the information and research on each subject. The objective is contributing in a directive way to decide which are the most important topics and content. The teacher will provide practical material and additional examples to the bibliography.

b) Practical seminars, where students fundamentally work on clinical cases that exemplify the disorders that have been described and worked on in theory classes. These sessions will be conducted with total classroom groups divided by four, and will be based on cases in video or on paper to work in the classroom itself.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Classroom clinical practices (seminar in small groups)	12	0.48	1, 2, 6, 4, 7
Conference	24	0.96	2, 3, 4, 5, 7, 8
Type: Supervised			
Following sessions and students problem solutions	8.5	0.34	
Type: Autonomous			
To Study	40	1.6	
Getting information and reading texts and papers	42.5	1.7	
Work about theory and clinical cases	20	0.8	

Assessment

It will be necessary the realization of three evaluation activities:

- 2 written tests that will be of test type questions related both to the contents taught in the theoretical classes and in the practical classes. The mark of these two exams represents 80% of the total qualification. The second exam is cumulative, and the student is examined of the whole course.

- A compilation of information about a topic proposed by the teacher about some aspect related to the course program. The work will be done in groups of four students, it will be based mainly on the results of an updated bibliographic search, and finally students will exhibit it in class. It assumes 20% of the overall qualification.

Final qualification: it will be obtained from the weighted average of the three learning evidences. There will be a weighted grade of 5 to pass the course.

Definition of non evaluable student: A student who has delivered evaluation activities with a weight equal to or greater than 40% of the total activities can not be considered "not evaluable".

Students who have followed evaluation activities with a weight equal to or greater than 2/3 of the total evaluation ratio, will have the opportunity to perform a resit examination. It will be necessary to obtain a grade lower than 5 points and greater than or equal to 3,5 points.

The resit examination will consist of a new exam in which the full content of the course will be evaluated. The grade of this final exam will substitute the average grade previously obtained from the evaluation activities.

You can see the evaluation guidelines of the faculty in the following link:

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

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Bibliografic Review	20%	0	0	1, 3, 4, 7
Exam 1	40%	1.5	0.06	2, 3, 6, 7, 8
Exam 2	40%	1.5	0.06	3, 5

Bibliography

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