Universitat de Lleida

DEGREE CURRICULUM

NEUROPSYCHOLOGY OF OLD AGE

Coordination: CARNES VENDRELL, ANNA

Academic year 2022-23

Subject's general information

Subject name	NEUROPSYCHOLOGY OF OLD AGE
Code	14808
Semester	2nd Q(SEMESTER) CONTINUED EVALUATION

Typology	Degree	Course	Character	Modality
	Master's Degree in Neuropsychology	1	OPTIONAL	Blended learning

Course number of credits (ECTS)	6

Type of activity, credits, and groups	Activity type	PRAULA	TEORIA
	Number of credits	1.4	4.6
	Number of groups	1	1

Coordination	CARNES VENDRELL, ANNA
Department	PSICOLOGIA
Important information on data processing	Consult this link for more information.

Teaching staff	E-mail addresses	Credits taught by teacher	Office and hour of attention
ARQUE FUSTE, GLORIA	gloria.arque@udl.cat	0	
CARNES VENDRELL, ANNA	anna.carnes@udl.cat	3	
GALLART PALAU, XAVIER RAMON	xavier.gallart@udl.cat	3	

Learning objectives

Search, analyze and use updated information in neuropsychology through scientific literature, showing critical thinking. Formulate working hypothesis in research and clinical practice in the field of neuropsychology applying the scientific method. Acquire the ability to choose the best option to act on a case-by-case basis, following a scientifically grounded systematic process and assuming responsibility for the consequences of decisions typical of the professional practice of neuropsychology.

Competences

Demonstrate a theoretical knowledge of the functioning of the brain and the basis of neuropsychology. Develop an appropriate neuropsychological examination plan to achieve a correct diagnosis and prognosis based on evidence. Perform a neuropsychological examination adapted to the type of patient according to age and other relevant characteristics. Design, apply and evaluate comprehensive neuropsychological rehabilitation plans adapted to the characteristics of the patients.

Subject contents

1. Introduction to the neuropsychology of old age: Healthy cognitive aging and pathological cognitive aging; Dementia as a cognitive syndrome and its pathophysiological basis; The importance of research in neurodegeneration associated with aging, main methodological approaches; Methods of diagnosis of mild cognitive impairment, cortical-based dementias and sub-cortical dementias, the case of biological markers; Lifestyle: the case of eating and sedentary lifestyle; Dietary supplements with potential nootropic capacity on cognitive domains affected in dementias.

2. Neurodegeneration: Major diseases that cause dementia associated with aging, cases of Alzheimer's Disease, Vascular Dementia and Mixed Dementia; Dementia associated with Parkinson's disease; Cognitive symptoms of motor neurone diseases associated with aging, the particular case of ALS; Dementia associated with alcoholism; HIV-associated dementia; other dementias.

3. Prevention and evaluation of dementias. Risk factors and protectors in dementias. Cognitive reserve. Psychological and behavioral symptoms in dementias. Aspects to consider in neuropsychological assessment in dementia (cognitive, emotional, behavioral and functional).

4. Neuropsychological intervention in dementia: characteristics of the intervention, differences between rehabilitating, stimulating and training, neuropsychological intervention in dementia and mild cognitive impairment, neuropsychological intervention with relatives, ethical and legal difficulties in people with dementia.

Methodology

1. Online master classes. 2. Critical reading and analysis of documents. 3. Online discussion and discussion forum. 4. Preparation of reports / works. 5. Case study. 6. Individual work. 7. Practices

Development plan

The student must be able to: • Discriminate between neuropsychological theories of cognitive impairment associated with age. • Identify symptoms of cognitive impairment associated with dementias. • Plan an intervention taking into account the characteristics of aging. • Perform an appropriate neuropsychological evaluation adapted to the patient's age. • Search effectively for scientific information that supports knowledge. • Critically analyze the scientific information found.

Evaluation

The note will consist of the sum of these 4 evidences:

- 4 test-type exams (one for each module) 5% each exam = 20% total
- 4 Reflection activities (one for each module) 15% each activity = 60% total
- Participation in 2 forums / debates of the subject 5% each = 10% total
- Attendance at the two face-to-face sessions = 10% total

In order to pass the subject, it will be necessary to have taken the 4 exams and to have given the 4 reflection activities, in order to be able to do the average with the rest of the evidence.

Bibliography

Bruna, O. Signo, S. y Molins. M (2018). *Intervención neuropsicológica en los trastornos neurodegenerativos*. Madrid: Síntesis.

Deus-Yela J, Devi Bastida J, Sáinz Pelayo MdP. (2018). Neuropsicología de la Enfermedad de Alzheimer. Madrid: Síntesis.

Junqué C. y Barroso J. (2009). *Manual de neuropsicología.* Madrid: Síntesis.

Tirapu Ustárroz J., Ríos Lago M. y Maestú Unturbe F. (2011). *Manual de Neuropsicología. 2ª edición.* Barcelona: Viguera.

Tirapu Ustárroz J, García Molina A., Ríos Lago M. y Ardila Ardila A. (2012). *Neuropsicología de la corteza prefrontal y las funciones ejecutivas.* Barcelona: Viguera.

In addition, at the end of each subject, a compulsory and complementary bibliography is provided.