VNIVERSITAT DE VALÈNCIA

Course Guide
44014 Developmental neuropsychology

COURSE DATA

Data Subject	
Code	44014
Name	Developmental neuropsychology
Cycle	Master's degree
ECTS Credits	3.0
Academic year	2024 - 2025

Study (s)

Degree	Center	Acad. year	Period
2185 - Master's Degree in Cognitive Neuroscience and Special Education Needs	Faculty of Psychology and Speech Therapy	1	First term

Subject-matter

Degree	Subject-matter	Character
2185 - Master's Degree in Cognitive Neuroscience and Special Education Needs	7 - Developmental neuropsychology	Obligatory

Coordination

Name	Department
MIRANDA CASAS, ANA	305 - Developmental and Educational Psychology
PASTOR SORIANO, JUAN CARLOS	300 - Basic Psychology

SUMMARY

General Fundamentals of the Nervous System Development, Language Development, Psychological Development, Neuropsychology in Children.

PREVIOUS KNOWLEDGE

Relationship to other subjects of the same degree

There are no specified enrollment restrictions with other subjects of the curriculum.

Other requirements

Knowledge of the Central Nervous System Development and Child Neuropsychology

2185 - Master's Degree in Cognitive Neuroscience and Special Education Needs

- Students should apply acquired knowledge to solve problems in unfamiliar contexts within their field of study, including multidisciplinary scenarios.
- Students should be able to integrate knowledge and address the complexity of making informed judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities associated with the application of their knowledge and judgments.
- Students should communicate conclusions and underlying knowledge clearly and unambiguously to both specialized and non-specialized audiences.
- Students should demonstrate self-directed learning skills for continued academic growth.
- Students should possess and understand foundational knowledge that enables original thinking and research in the field.
- Dominar los conocimientos en el ámbito de la neurociencia cognitiva que permitan realizar acciones de intervención en las necesidades específicas de apoyo educativo.
- Aplicar las habilidades y destrezas profesionales que son propias del ámbito de intervención en las necesidades específicas de apoyo educativo.
- Conocer las bases conceptuales y metodológicas de los procesos de intervención en el alumnado que presenta Necesidades específicas de Apoyo Educativo (NEAEs), priorizando aquellos que han sido validados por los resultados de investigación en el campo de la neurociencia cognitiva.
- Conocer las características neuropsicológicas, cognitivas y conductuales de los alumnos con NEAEs derivadas de altas capacidades, TDAH, dislexia, disgrafía, discalculia, diversidad cultural y lingüística, autismo, etc.
- Comprender las bases neurobiológicas de los procesos cognitivos implicados en las NEAEs.
- Relacionar las teorías cognitivas que explican las NEAEs con los hallazgos en el campo de la neurociencia cognitiva.
- Aplicar instrumentos de exploración de características neuropsicológicas, cognitivas y conductuales de los alumnos con dificultades de aprendizaje y su coexistencia con otras NEAEs (altas capacidades, TDAH,...).
- Ser capaz de establecer un plan de intervención a partir del diagnóstico realizado.

To know the classification, terminology and description of neurodevelopmental disorders with special emphasis on those that show neuropsychological deficits. To know, recognize and discriminate among a variety of neurodevelopmental disorders. Knowing the basics of the process of neuropsychological assessment and diagnosis. Knowing and applying the models, techniques and neuropsychological assessment instruments. To know the neurological diseases that most often appear in childhood. To understand the concept of Neuropsychological Development and its alterations. To know the assessment procedure in children and adolescents affected by brain damage. To know the basic application of neuropsychological assessment instruments in the different pathologies. To know the implementation of neuropsychological rehabilitation programs in children and adolescents with neurological disorders.

It is expected that the student complete learning of these skills and those indicated in the theoretical basis of the contents of the subject and with the knowledge and skills necessary to perform evaluations free of cultural and linguistic biases in the identification of needs of students with central nervous system disorders.

DESCRIPTION OF CONTENTS

1. Development of the Central Nervous System

2. Prenatal Disorders

3. Neuropsychological Development

4. Perinatal disorders

5. Acquired Disorders

6. Recovery of Function in Children

7. Neuropsychology of ADHD

8. Neuropsychology of LD

9. Neuropsychological Rehabilitation: Practice

WORKLOAD

ACTIVITY	Hours	% To be attended
Theory classes	25,00	100
Classroom practices	5,00	100
Development of individual work	15,00	0
Preparation of evaluation activities	10,00	0
Preparing lectures	10,00	0
Preparation of practical classes and problem	10,00	0
TOTAL	**75,00**	

TEACHING METHODOLOGY

In the lectures the teacher will present the contents of the subject, indicating the sections, the basic literature and objectives that students must achieve in relation to the subject-specific skills.

EVALUATION

The classroom attendance is mandatory. To evaluate the assimilation of knowledge taught in the lectures will be a final paper on any of the topics covered in the course. The results will correspond to 60% of the final grade for the course. The performance, individually and in groups, practical cases, management of assessment tools, deepening work and participation in the tutoring sessions, will be evaluated with a weight of 40% final. To pass you need more than 40% of each part. We recommend a continued work to gradually assimilate the contents of the subject. This continued study should be accompanied by regular consultation with the teacher to answer questions, clarify ideas, and so forth.

REFERENCES

Basic

- Semrud-Clikeman, M. y Teeter, P.A. (2011). Neuropsicología Infantil. Evaluación e Intervención en los Trastornos Neuroevolutivos. Madrid: Pearson Educación S.A.

- Artigas-Pallarés, J. Y Narbonsa, J. (2011). Trastornos del neurodesarrollo. Barcelona: Viguera.

- Junqué, C, y Barroso, J.(cords.) (2009) Manual de Neuropsicología . Madrid. Síntesis.

Additional

- Kolb, B.; Whishaw, I. (2006) Neuropsicología humana. Ed. Médica Panamericana.

- Coffey, C.E. y Brumback, R. A. (2006). Pediatric Neuropsychiatry. New York: Lippncott Williams & Wilkins.