

STUDENT GUIDE MODULE: NEUROPSYCHOLOGICAL REHABILITATION AND COGNITIVE STIMULATION IN THE ALTERATIONS IN ACQUIRED BRAIN INJURY

Coordinator:

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UAB Code: 42194

Modality: mandatory

10 ECTS

Presential classes:

1st semester of the 2022-2023 academic year From November 21 th to 25 th and from December 12 th to 16 th , 2022

Schedule: from 9 a.m. to 5 p.m. with one hour for lunch



Objective

This module will deepen the knowledge of cortical reorganization mechanisms in Acquired Brain Injury. Specific evaluation techniques and instruments. Analysis and design of personalized therapeutic strategies that allow the development of new capacities or functional recovery of the injured nervous system. Planning of programs of cognitive intervention in acquired brain injury and monitoring of results.

Competencies and learning outcomes

Competencies	Learning outcomes	
CE1. Show that you	CE1.8. Identify the anatomical structures of attention and its	
understand current	functional integration in physiological and	
models and theories	pathological conditions	
about the relationship	CE1.9. Identify the basic processes and subcomponents of	
between the central	care	
nervous system and	CE1.10. Analyze and explain the main theories of	
cognitive abilities	rehabilitation in the alterations of attention	
	CE1.11. Recognize the anatomical structures of praxis and	
	gnosi and their functional integration in physiological	
	and pathological conditions	
	CE1.12. Distinguish the differential neurobiological	
	correlates of the organization of praxis and gnosi	
	processes and their implications for rehabilitation	
	CE1.13. Analyze and explain the main theories of	
	rehabilitation of praxis and gnosi	
	CE1.14. Differentiate the anatomical structures of language	
	and its functional integration in physiological and	
	pathological conditions	
	CE1.15. Review and argue the differential neurobiological	
	studies in the organization of language processes,	
	their alterations and their implications for	
	rehabilitation	
	CE1.16. Define the main theories of language rehabilitation and its alterations	
	CE1.17. Differentiate the anatomical structures of the	
	executive functions and their functional integration in	
	physiological and pathological conditions	
	CE1.18. Review and argue the differential neurobiological	
	studies of the organization of the processes of	
	executive functions and their implications for	
	rehabilitation	
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	CE1.19. Analyze and explain the main theories of
	rehabilitation of executive functions
	CE1.20. Identify the anatomical structures of memory and
	its functional integration in physiological and
	pathological conditions
	CE1.21. Analyze and explain the main theories of memory
	rehabilitation
CE2. Design therapeutic plans	CE2.8. Differentiate the profiles of psychometric and
from the critical and	functional affectation of the attentional alterations
analytical study of the	for the design of personalized therapeutic plans and
profiles of	oriented to autonomy in the activities of daily life
neuropsychological	CE2.9. Relate the new conceptual models with their
affection that are	integration in the therapeutic plans for the
obtained from	rehabilitation of care
administration of	CE2.10. Manage and interpret diagnostic assessments of
diagnostic assessment	attention disorders
instruments and their	CE2.11. Differentiate the profiles of psychometric and
interpretation of their	functional affectation of the alterations of the praxis
results	and gnosi for the design of personalized therapeutic
	plans and oriented to the autonomy in activities of
	the daily life
	CE2.12. Integrate the new conceptual models with
	therapeutic plans and oriented to the autonomy in
	the activities of the daily life
	CE2.13. Administrate and interpret diagnostic assessments
	of alterations of praxis and gnosi
	CE2.14. Differentiate the profiles of psychometric and
	functional affectation of the language disorders ant
	their alterations for the design of personalized
	therapeutic plans and oriented to autonomy in the
	activities of daily life
	CE2.15. Relate neurobiological trends and their integration
	with therapeutic plans in language rehabilitation
	CE2.16. Administrate and interpret diagnostic assessments
	of language disorders and their alterations
	CE2.17. Differentiate the profiles of psychometric and
	functional affectation of the memory alterations for
	the design of personalized therapeutic plans and
	oriented to autonomy in the activities of daily life
	CE2.18. Manage and interpret diagnostic assessments of
	memory disorders



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	CE2.19. Integrate neurobiological tendencies with			
	therapeutic plans for the rehabilitation of memory			
	CE2.20. Differentiate the profile of psychometric and			
	functional affectation of the alterations of the			
	executive functions for the design of personalized			
	therapeutic plans and oriented to the autonomy in			
	the activities of daily life			
	CE2.21. Relate the new conceptual models and their			
	integration with therapeutic plans in the			
	rehabilitation of executive functions			
	CE2.22. Manage and interpret the diagnostic assessments of			
	alterations of higher functions			
CE3. Use current cognitive	CE3.1. Select and program therapeutic strategies and			
intervention strategies	intervention techniques for neuropsychological			
	rehabilitation in attention disorders			
	CE3.3. Describe and establish strategies and intervention			
	techniques for the neuropsychological rehabilitation			
	of praxis and gnosi			
	CE3.4. Select and determine intervention strategies and			
	techniques for the neuropsychological rehabilitation			
	of language and its alterations			
	CE3.6. Select and establish therapeutic strategies and			
	intervention techniques for the neuropsychological			
	rehabilitation of memory			
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	CE3.8. Recommend therapeutic strategies and intervention			
	techniques for the neuropsychological rehabilitation			
	of executive functions			

General / transversal competencies

- CGT1. Apply critical, logical and creative thinking at work
- CGT2. Demonstrate respect for diversity and ethical commitment
- CGT3. Work in multidisciplinary teams sharing knowledge in a responsible manner
- CGT5. Review and analyze the scientific literature
- CGT6. Incorporate work methodologies
- CGT7. Relate knowledge with professional practice
- CGT8. Demonstrate self-learning skills

Teaching methodology

The methodological approach of the module starts from considering the student as the protagonist of his teaching-learning process. The student must be active and autonomous throughout the process and the teacher gives support by providing the information and



resources necessary for the learning to take place.

The module is presential and the methodology in class is of presentations with audiovisual support, workshops, and group work. Through the platform e-learning-Guttmann, the student has access, among others, the calendar and class schedules, bibliographic support documentation to maintain contact between the rest of the students and faculty, being able to initiate and / or participate in debates, share documents and information of interest to the group.

Formative activities	ECTS	Teaching-learning methodology	Competences		
DIRECTED ACTIVITIES					
	2.8	Theoretical classes as ICT	CE1, CE2, CE3		
		Simulation workshop	CT1, CT2		
SUPERVISED ACTIVITIES					
	1.2	Seminars			
		Practical application	CE2, CE3		
		workshops	СТ3, СТ6		
		Tutorial			
AUTONOMOUS ACTIVITY					
	5.6	Reading of scientific texts			
		/ articles	CE1, CE2, CE3		
		Writing of works	CT5, CT8		
		Autonomous study			
EVALUATION ACTIVITIES					
	0.4	Theoretical and practical	CE1, CE2, CE3		
		tests	CT1, CT6, CT7		

Competences evaluation

To show the level of mastery achieved in the acquisition and development of the module's competences, the evaluation process will be carried out continuously and will consist of the following activities:

- Multiple choice test week 1 (access will be activated at the end of the first week of the module): Test consisting of questions with four possible answers (options); where only one is correct. Constitutes 25% of the module grade
- Abstract of a scientific article (access will be activated during the first week of the module): The student must write an abstract in Catalan, Spanish or English of one of the two proposed articles. The abstract will have the following structure: 1) Objective, 2) Methodology, 3) Results and 4) Conclusions. The maximum length of the abstract will be 250 words. Constitutes 20% of the module grade.



- Multiple choice test week 2 (access will be activated at the end of the second week of the module): Test consisting of questions with four possible answers (options); where only one is correct. Constitutes 25% of the module grade
- Synthesis test (access will be activated at the end of the second week of the module). It
 will consist of two open questions: Open questions about the contents of the module
 that you will have to develop. To answer these questions, you must have attended class,
 as well as having reviewed the bibliography recommended by the teachers that has
 taught the subject. The maximum length of each of the answers cannot exceed two
 pages on one side only.

You Will find the evaluation criteria defined in the rubrics that Will be published on the teaching platform.

- Attendance to the classes will be considered. To have the right to take the exams, we ask for a minimum attendance of 80% of the module.
- The score scale is from 1 to 10, with 5 being the minimum grade to pass.
- If the student only present one or none of the three evidences of learning or you have not attended the minimum number of hours of programmed activities of the module (80%), the subject will be "not evaluable".

Programming of the evaluation activities

The evaluation tests will be delivered through the Guttmann e-learning platform. Delivery times are as follows:

- Multiple choice test week 1: There will be 10 calendar days from the last day of class of the first theoretical week of the module.
- Multiple choice test week: There will be 10 calendar days from the last day of class of the second theoretical week of the module.
- Synthesis test: There will be 16 calendar days from the last day of class of the second theoretical week of the module.
- Abstract of a scientific article: It will be delivered together with the synthesis test (maximum 16 calendar days from the last day of the module class).

Qualification review process

If the student wants to review the exam, they can request it by email to the module coordinator (with copy to the teaching department).

Procedure and recovery criteria

Recovery is a process that will be put into operation once the period of publication of the module's final grades has ended.

You can choose if throughout the continuous evaluation you have made evidence with weight equal to or greater than 2/3 of the total score and you have obtained an average grade of the module between 3.5 and 4.9 points.



This will consist of a written test recovery of the evidence of learning in which you have not shown a satisfactory performance. Specifically, it will consist of a writing of a work (maximum 1.500 word, including bibliographical references) of a topic that will be determined by the module coordinator.

The maximum grade that can be obtained in the recovery is 5.

The module web

In the web of each module you Will find information of interest for the follow-up of the study:

- Forum of the module. Through this space you can keep in touch with the teachers or among the other students, to provide suggestions, answer questions, etc.
- News. It is the space from where you Will receive news and announcements about the evolution of the module.
- Programs. The module can be downloaded in PDF format, indicating the subjects, schedules and the teaching staff.
- Documentation. Here you Will find information and bibliography of interest that you can consult for the later study of the topics.
- Evaluation of competences. In this space you Will find all the necessary information and the delivery dates of the evaluation that will be done for this module

Satisfaction surveys

- Teacher evaluation. Daily, at the end of the classes, you Will receive an email (on your computer or on your mobile) that Will link you to a brief satisfaction questionnaire about the teachers that have taught that day. The objective of these surveys is to collect your opinion that will be a great help for the improvement of this module. The surveys are anonymous.
- Module evaluation. Also, at the end of the course you can answer the general evaluation survey of the module. The surveys are **anonymous**.

Coordination

For any aspect of the organization and planning of the module you can contact

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