

STUDENT GUIDE

MODULE:

Final Master Work

Coordinators:

Dr. Alberto García Molina

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UAB code: 43192

Modality: mandatory

15 ECTS

2nd semester of the 2020-2021 academic year

Depending on the orientation chosen by the student when enrolling in the Master, the final Master's work will be different.

The students who have enrolled in the professional itinerary, will elaborate and present an original work that demonstrates their comprehension analysis and integration of the advances in Neuropsychological Rehabilitation, intensifying the aspects of methodology and necessary assistance organization, intervention programs, evidence of efficacy for promote therapeutic innovation in the professional field as a tool for approaching healthcare excellence.

Students who have enrolled in the research itinerary Will develop and present an original work that aims to identify the paradigms of study of cognitive functions and their development, identify post-injury alterations or delays of acquisition, design strategies for favor the acquisition or development and transfer these strategies to a framework of interaction through the computer.

Teaching methodology

The teaching methodology and the proposed evaluation may undergo some modification depending on the restrictions on attendance that the health authorities impose.

Competencies and learning outcomes

Competencies	Learning outcomes
CE5. Generate new ideas based on scientific evidence and design innovate therapeutic strategies	CE5.1. Demonstrate a practical knowledge of the research methods and techniques of the field of Neuropsychological Rehabilitation CE5.2. Relate research from the systematization of the clinical act and methodological rigor CE5.3. Apply statistical procedures CE5.4. Use biomedical data storage and analysis programs CE5.5. Synthesize the information obtained and own knowledge in a global and structured view of the "state of art" of the project theme CE5.6. Identify the specific objectives of the study problem CE5.7. Select the criteria that will allow to evaluate the validity of the proposal CE5.8. Choose the most correct tools and methodologies to analyze, design and

	implement a project with an important component of innovation CE5.9. Defend and transmit ideas within your field of study
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General / Transversal competences

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

CGT4. Demonstrate responsibility in decision making

CGT5. Review and analyze the scientific literature

CGT6. Incorporate work methodologies

CGT7. Relate knowledge with professional practice

Final Master Work professional orientation

Tutorials

The students will maintain with the coordinator of the module (Dr. Alberto García Molina) a prior tutorial of orientation to the final master work project. To agree on the day and time of tutoring, you have to send a e-mail to agarciam@guttmann.com. In these tutorials a tutor will be appointed expert in the subject that you want to develop.

The Final Master Work will be done in groups (composed of a maximum of 3 students). To elaborate it, one of the following topics will have to be selected (each one of these topics can only be developed by a maximum of 2 groups):

- Rehabilitation of care
- Rehabilitation of memory
- Rehabilitation of the language
- Rehabilitation of perception
- Rehabilitation of executive functions
- Child neuropsychological rehabilitation

Although the work can be done as a group, the resulting qualification Will always be individual. The subject of the Final Master's Work must be agreed with the tutor before **December 31st**. After this date, it will not be possible to make modifications regarding the work theme or the members of the group.

To continuously monitor the development of the Final's Master Work, it is mandatory to perform a minimum of three presential tutorials.

Work structure:

The structure and content of the work will be agreed with the tutor assigned by the module coordinator in a presential tutoring.

Rules for preparation and presentation of the Master Final Work

The work will be presented in Word format (arial 12, single line spacing), between 25 an 30 pages (including bibliographic references and annexes). The bibliographical references will be adapted to the standards of the APA (American Psychological Association). A copy will be sent via e-mail to docencia@guttmann.com , at the latest 15 days before the oral presentation so that the evaluation committee can read the work in advance.

The evaluation of the final master work will be done through a matrix of rubrics that will be published in the Guttmann e-learning Platform. As a whole progression in carrying out the work and the acquisition of skills and attitudes of innovation will also be considered. Therefore, progress reports that tutors perform after each tutoring will be evaluated.

The defense of the final master work is an academic act of evaluation. The group will have a maximum of 15 minutes to publicly present and defend their project with the help of computer support (ex. Presentation prepared in PowerPoint format): During this time should prioritize those issues that are considered most relevant work and will make a clear, precise and complete

synthesis. Once the argument is finished, the members of the tribunal will be able to make observations, comments and questions that students will have to answer to defend the presented project

Final Master Work Research orientation

Tutorials

The students will maintain with the module coordinator (Dr. Josep M. Tormos) a prior tutoring of orientation to the final master work. To agree on a day and time for tutoring, you should consult the document "PROCEDURE TUTORIALS DR. TORMOS". In these tutorials a tutor will be appointed expert in the subject that you want to develop.

The Final Master Work is individual.

For its development, the student Will be able to approach different methodological solutions and consult the assigned responsible tutor.

Objectives:

- Identify paradigms of study of cognitive functions and their development
- Identify post-injury alterations or acquisition delays
- Design strategies to favor acquisition or development
- transfer these strategies in a framework of interaction through a computer
- Analyze the results of cognitive rehabilitation experiences in patients with brain damage or other neuropsychiatric disorders

The work must contain:

1. Identification data: Master and edition, title of the master final work, name of the author and of the tutor (s), date of delivery
2. Review of the cognitive function to be addressed, initiated from the study of manuals of neuropsychology and neuroscience; from where it will deepen with the reading and study of bibliographic revisions and will be complemented, finally, with the search of research articles.

It is recommended to use conceptual mapping tools (XMind or similar) to structure information, with links to references and articles in PDF format or other formats.

The student must send to his tutor, by email, the concept map before January 7th, 2021. Within 10 days after delivery, the student must defend before the tutor the current status of their work through a Power Point presentation no longer than 10 minutes.

3. Bibliographic review on studies of structure-function relationship, on the functions identified on the previous functions identified in the previous works and description of cognitive neuroscience paradigms used in this study; and on the rehabilitation treatment most used in the previous alterations.
 - Intervention models
 - Typology of tasks
 - Description of the strategies used in each of them.

The derived information will be incorporated into the map or concept maps

- The student must send to his tutor the conceptual map before March 31st, 2021. Within 10 days after the delivery, the student must defend before the tutor the current status of their work through a presentation in Power Point not more than 10 minutes.
4. Design of tasks based on the study paradigms identified in the previous work.
 - Design of intervention strategies (therapeutic hypotheses)Maximum delivery date April 30th, 2021.
 5. Analysis of impact results on the cognitive deficit of rehabilitation or cognitive stimulation interventions, based on data derived from cognitive rehabilitation interventions with the Guttman system; NeurPersonalTrainer, which Will be provided from the Research and Innovation Department of the Guttman Institute, about the functions that the student is studying.
 6. Maximum delivery date May 31st, 2021.

Rules for preparation and presentation of the Master Final Work

The work will have a maximum length of 50 pages and will be presented in Word format (arial 12, single line spacing). The bibliographical references will be adapted to the standards of the APA (American Psychological Association). A copy will be sent via e-mail to docencia@guttmann.com , at the latest 15 days before the oral presentation so that the evaluation committee can read the work in advance.

The evaluation of the final master work will be done through a matrix of rubrics that will be published in the Guttman e-learning Platform. As a whole progression in carrying out the work and the acquisition of skills and attitudes of innovation will also be considered. Therefore, progress reports that tutors perform after each tutoring will be evaluated.

The defense of the final master work is an academic act of evaluation. The group will have a maximum of 15 minutes to publicly present and defend their project with the help of computer support (ex. Presentation prepared in PowerPoint format): During this time should prioritize those issues that are considered most relevant work and will make a clear, precise and complete synthesis. Once the argument is finished, the members of the tribunal will be able to make observations, comments and questions that students will have to answer to defend the presented project.

The announcement will be made public in the academic calendar of the Master. There will be a call at the end of June / beginning of July. The place and time of the call will be announced opportunely.