Superior Cognitive Functions: Thought

Code: 101714
ECTS Credits: 6

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: No

Contact

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Teachers

María José Gómez Romero

Prerequisites

There are no prerequisites but good knowledge of English at reading level is needed. To have approved the subject "Introduction to the scientific methodology and psychological processes" of the first Course.

Objectives and Contextualisation

This subject explores the knowledge of one of the most important cognitive functions: the human thought and the influence that exerts on Language. This influence occurs both in everyday situations and in special situations (stress, accidents, etc.). In addition, Cognitive enhancement procedures and their possible effects on the re-education of speech therapy are also presented.

At the end of the course the student should be able to:
- Know and describe the main processes involved in thinking.
- Identify and analyze the effects of emotional and cognitive factors on the processes of thinking, reasoning and decision making.
- Know the effects that certain diseases or accidents can have on processes of thought and its influence on language.
- Describe and apply different strategies to enhance cognitive functions in general, and language in particular. The role of speech therapy in these aspects is analyzed.
- Critically interpret the results of research into the processes Involved in thought and its influence on language.

Competences

- Analyse and synthesise information.
- Demonstrate an understanding and correct use of the terminology and methodology of speech-therapy research.
- Evaluate the scientific production that supports speech therapists professional development.
• Express oneself fluently, coherently and suitably following established norms, both orally and in writing.
• Integrate the foundations of biology (anatomy and physiology), psychology (evolutionary processes and development), language and teaching as these relate to speech-therapy intervention in communication, language, speech, hearing, voice and non-verbal oral functions.
• Organise and plan with the aim of establishing a plan for development within a set period.
• Understand, integrate and relate new knowledge deriving from autonomous learning.
• Use the exploratory techniques and instruments pertaining to the profession, and register, synthesise and interpret the data provided by integrating this into an overall information set.

Learning Outcomes

1. Analyse and synthesise.
2. Consider designs that are suitable for practice on different processes and phenomena involved in memory and thinking.
3. Correctly use the terminology and methodology of research into higher cognitive functions in the field of speech therapy.
4. Critically interpret the results of evaluations conducted, relating these to disorders of thought and memory and their effect on language.
5. Critically interpret the results of research into the processes involved in thought and memory.
6. Describe the different thought processes involved in thinking.
7. Describe the main processes and systems involved in memory and thinking.
8. Describe the main techniques and assessment tools of thought and memory.
9. Explain the effects of certain diseases or brain traumas on memory and thought processes.
10. Express oneself fluently, coherently and suitably following established norms, both orally and in writing.
11. Organise and plan with the aim of establishing a plan for development within a set period.
12. Prepare and write reports based on the results of experiments into thinking and memory.
13. Relate emotional and rational factors with the processes of reasoning and decision-making.
14. Understand, integrate and relate new knowledge deriving from autonomous learning.

Content

The program of the subject Superior Cognitive Functions: Thought is structured in the following themes that also include Seminars and Practical classes.

Theme 1: Conceptual aspects of Thinking

• Types of thinking. How thinking works: cognitive strategies.
• Acquisition and development of cognitive functions (thinking) throughout the lifespan. Special situations: prematurity, normal and pathological aging.
• How thinking works. Knowledge representation: concepts, schemas, scripts and cognitive maps.
• Considerations related to the clinical interview.

Theme 2. Cognitive functions in specific situations

• Problem solving and decision-making in situations of uncertainty (Motivational conflicts, stressful situations).
• Effect of positive and negative mood states on cognitive functions.
• Effects of prematurity on development in general and on cognitive functions in particular.
• Brain Diseases: Stroke, Alzheimer's, Accidents and Traumatic brain injury.
• Considerations related to the clinical interview.

Theme 3. Cognitive enhancement

• Facilitation of creative thinking (De Bono Method)
• Cognitive stimulation and reeducation: general and specific objectives, general considerations. The role of speech therapist. Cognitive rehabilitation and speech therapy.
• Considerations related to the clinical interview.
Methodology

DIRECTED ACTIVITY

- Theoretical classes, practices and seminars
- Lectures with ICT support and debate in a large group
- Practical classes to discuss basic concepts through small exercises and gamification activities
- Seminars for discussion of cases or papers in small groups
- Workshops for proposals for intervention or rehabilitation
- Throughout the course, equal participation in class will be enhanced.

SUPERVISED ACTIVITY

- Supervised activity
  - Individual tutoring with the teacher.
  - Follow-up tutoring with small group teaching staff
- Writing and elaboration of individual and group work.
- Tutoring of work (individual or group) in person and / or virtual.

AUTONOMOUS ACTIVITY

- Search, reading and synthesis of documentation.
- Definition of search strategy in databases, comprehensive reading and preparation of synopsis of the material read.
- Preparation of reports and public presentation of works.
- Preparation of reports of individual or group practices.

Activities

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<th>Title</th>
<th>Hours</th>
<th>ECTS</th>
<th>Learning Outcomes</th>
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<td>Lectures</td>
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<td>6, 7, 12, 3, 9, 2, 13</td>
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<td>Practical classes</td>
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<td>Group follow-up tutoring</td>
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<td>Autonomous activity</td>
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<td>3.92</td>
<td>14, 8, 12, 3, 10, 4, 5, 11, 2</td>
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Assessment

The competences of this subject will be evaluated by means of different evidences:
a) A written test (multiple choice test): 40%
b) Written reports of exposed works: 10%
c) Oral presentation of works: 20%
d) Written report of the readings / seminars: 10%
e) Proposals for intervention or rehabilitation workshops: 20%

ASSESSMENT OF THE SUBJECT

It will be considered that a student has passed the subject if in the set of the 5 evidences he/she obtains a score equal or superior to 5, and at least in the evidence 5 (written test -multiple choice test) obtains a mark of 2. Those students who do NOT present all the evidences will NOT pass the subject, although the total score is equal or superior to 5.

Once the subject has been passed (grade ≥ 5), the final grade can not be improved through works or other activities.

A student who has presented evidences of learning with a weight equal to or greater than 4 points (40%) will be considered for evaluate.

Students who have not passed the course but in the continuous assessment have obtained a grade of 3.5 or higher but less than 5, can present to a new written test of the part not passed. To do this test or exam it is necessary that students have been previously evaluated in a set of activities, the weight of which equals a minimum of 2/3 of the total rating of the subject.

This new exam will consist of written questions corresponding to the evidence not approved and does not serve to improve the final score of the subject if a student has already approved it. The maximum score that can be obtained in this new exam is 5.

COPYING OR PLAGIARISM: According to Article 116, Section 10 Regulations UAB, if the student performs any irregularity (copy, plagiarism, ...) that could lead to a significant variation of the qualification of an act of evaluation, will be rated with 0 this act of evaluation. If there are several irregularities in the evaluation acts of the same subject the final mark will be 0.

Assessment Activities

<table>
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<tr>
<th>Title</th>
<th>Weighting</th>
<th>Hours</th>
<th>ECTS</th>
<th>Learning Outcomes</th>
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Bibliography

BIBLIOGRAPHY

Basic bibliography

Complementary


Throughout the course, the teacher will provide another specific bibliography of some of the topics and seminars that are discussed in class.