

COGNITIVE PROCESSES

Degree in Occupational Therapy

Academic year 2022-23

Code: 804142

Type of subject: Basic **Course:** Second

Semester: First

Department: Experimental Psychology, Cognitive Processes and Logopedic

Credits: 6 ECTS

TEACHING STAFF

Teacher responsible: Casado Morales, María Isabel
micasado@ucm.es

COMPETENCIES

Competencies corresponding to the module and subject matter are as follows

General Competencies

- CG.04.
- CG.05.
- CG.06.
- CG.07.
- CG.08.
- CG.17.
- CG.18.
- CG.22.
- CG.25.

Specific Competencies

- CE.M1.3.
- CE.M2.13.-
- CE.M2.14.-
- CE.M2.16.-
- CE.M2.17.-
- CE.M2.2.-
- CE.M2.21.-
- CE.M2.24.-
- CE.M2.3.-
- CE.M2.9.-
- CE.M4.2.-

OBJECTIVES

- To introduce students to the basic theoretical and practical knowledge of human behaviour through the study of cognitive processes.
- To provide students with the fundamental knowledge and contents of cognitive psychology, the knowledge of cognitive processes and the importance derived from their application in Occupational Therapy.
- To promote an understanding and knowledge of the main cognitive processes, as well as understanding their historical background and current study techniques.
- To develop competences that enable students to understand and apply knowledge related to the application of general psychology.
- To recognise the main cognitive processes investigated by scientific psychology.

PROGRAM

THEORETICAL PROGRAM

Block I. Cognitive processes

- Cognition.
- Main areas of cognition.
- Cognitive processes.

Block II. Perception

- Sensory modalities.
- Development of perception.
- The perceptual process.
- Thresholds of perception.
- Perceptual organisation.
- Perceptual illusions.
- Practical applications.

Block III. Attention

- Historical-conceptual overview of the study of attention.
- Automatic processes and controlled processes.
- Study of attention.
- Determinants of care.
- Dimensions of care.
- Types of care.
- Experimental paradigms in the study of attention.
- Practical applications.

Block IV. Memory

- Historical-conceptual overview of the study of memory.
- Memory structures and processes.
- Sensory memories.
- Short-term memory and working memory.
- Long-term memory: declarative and procedural.
- Levels of information processing.
- Recovery processes: recall and recognition.
- Theories of forgetting.
- How to improve memory.
- Practical applications.

Block V. Language and communication

- Theoretical models of linguistic behaviour.
- Language acquisition and development.
- Comprehension and production processes.
- Non-verbal communication.
- Practical applications.

Block VI. Thinking

- Concepts and categories: the organisation of knowledge.
- Deductive and inductive reasoning.
- Problem solving and decision making.
- Executive functions.
- Practical applications.

PRACTICAL PROGRAM

Objectives: the practical classes focus on carrying out activities related to the different aspects of the programme, familiarising students with the cognitive processes studied with special emphasis on the application from Occupational Therapy.

Group work will be elaborated and exposed on the different cognitive processes developed in the theoretical classes.

1. Attention.
2. Perception.
3. Memory.

EVALUATION CRITERIA

The final grade for the course will be obtained based on the knowledge demonstrated in an exam or objective test at the end of the term, which will be comprised of all the subjects covered in the course, both theoretical and practical.

The correction of said test will be: $\text{correct answers-errors} / \text{number of alternatives} - 1$.

A continuous evaluation of the subject will be carried out and the completion of the proposed works, activities developed in practical classes and student presentations will be considered. Compliance with the performance of such activities will be mandatory.

In accordance with the provisions of article 5 of Real Decreto 1125/2003, the results obtained by the student will be graded based on the numerical scale from 0 to 10, with expression of one decimal

By agreement of the Quality Commission, In the event of a voluntary or involuntary violation of the norms for the completion of a particular examination, your examination will not be marked. The student will have the opportunity to complete an oral examination to determine his or her knowledge of the material covered for that exam. If the infraction was voluntary this will be considered a serious ethical violation. This incident will be reported to the Inspection. Services for their evaluation and any disciplinary measures they deem necessary.

BASIC BIBLIOGRAPHY

Some brief bibliographical references are included here that collect some of the main areas and methodology of Psychology. They will be complemented with the texts and bibliography provided in the classes, and available on the Virtual Campus.

Baddeley, A., Eysenck, M.W. y Anderson, M.C. (2010). *Memoria*. Alianza Editorial.

- Ballesteros, S. (2002). *Psicología General: Atención y percepción*, vol. II. UNED.
- Best, J.B. (1999). *Psicología cognitiva*. Paraninfo.
- Delgado Losada, M.L. (2013). *Programa de entrenamiento en estrategias para mejorar la memoria. Manual del terapeuta y Cuaderno de entrenamiento*. EOS.
- Delgado, M.L. (2015). *Fundamentos de Psicología. Para ciencias Sociales y de la Salud*. Editorial Panamericana
- Fernández-Abascal, E.G., Martín Díaz, M.D. y Domínguez Sánchez, J. (2001). *Procesos Psicológicos*. Pirámide.
- Fernández-Trespalacios, J.L. (1979, 1980). *Psicología General. I y II*. UNED, (2 Vols.).
- García, J.A. y Moreno, S. (1998). *Conceptos fundamentales de psicología*. Alianza.
- Lindsay, P.H. y Norman, D.A. (1983). *Introducción a la Psicología cognitiva*. Tecnos.
- MacGee, M.G. (1984). *Psychology*. St. Paul, West.
- Mayor, J. y Pinillos, J.L. (1989 y ss.). *Tratado de Psicología General*, 12 Volúmenes. Alhambra.
- Morris, C.G. y Maisto, A.A. (2008). *Psicología*. Prentice-Hall, (10ª ed.).
- Myers, D.G. (2006), *Psicología*. Médica Panamericana, (7ª ed.).
- Puente, A. (2011). *Psicología contemporánea básica y aplicada*. Pirámide.
- Smith, E.E. (2008). *Procesos cognitivos. Modelos y bases neurales*. Pearson Education.
- Taylor, A.; Sluckin, W.; Davies, D.R.; Reason, J.T.; Thomson, R. y Colman, A.M. (1984). *Introducción a la Psicología*. Visor.
- Wolman, B.B. (1979). *Manual de Psicología*. Martínez Roca.
- Zimbardo, P.G. (1984). *Psicología y vida*. Trillas.