

Psychological Processes: Attention and Perception

Code: 102577
ECTS Credits: 6

Degree	Type	Year	Semester
2502443 Psychology	FB	1	1

Errata

In other comments on languages section, instead of groups 1 and 2 it should be groups 3 and 4.

Contact

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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

Other comments on languages

In Groups 1 and 2, lectures may be given in spanish if students and teacher come to an agreement. In Group 5, the practical lessons carried out in the classroom will be taught in English.

Teachers

Jenny Moix Queralto
Olga Soler Vilageliu
Andres Chamarro Luser
A Determinar Pds
Rocio Pina Rios
Judit Castellà Mate
María Inés Caño Melero

Prerequisites

No previous requirement.

Objectives and Contextualisation

This basic subject is located in the first year of the degree and it is part of a group of subjects aimed at learning the different basic psychological processes, which is composed of: Motivation and Emotion, Memory, Learning and conditioning, Thought and Language, and Attention and Perception.

The main aims of this subject are to:

- To describe the fundamental aspects of the psychological processes related to attention and perception.
- Ensure that at the end of the semester students will have acquired terminology and knowledge about the main research trends in these areas
- Identify the implications of attention and perception processes in some areas of daily life such as education, advertising, etc.
- Implement experimental tasks using different methodologies and procedures used in the research of these processes through practical lessons

Competences

- Analyse scientific texts written in English.
- Distinguish and relate the different focuses and theoretical traditions that have contributed to the historical development of psychology as well as its influence on the production of knowledge and professional practice.
- Distinguish between the design of research, procedures and techniques to evaluate hypotheses, contrast them and interpret the results.
- Evaluate, contrast and take decision on the choice of adequate methods and instruments for each situation and evaluation context.
- Identify, describe and relate the structures and processes involved in basic psychological functions.
- Prepare and write technical reports on the results of the evaluation, research or services requested.
- Take decisions in a critical manner about the different research methods in psychology, their application and the interpretation of the results deriving from them.
- Use different ICTs for different purposes.

Learning Outcomes

1. Analyse scientific texts written in English.
2. Apply knowledge of attentional and / or perceptual processes to solve everyday problems in which these processes are involved.
3. Compare the results obtained in practice on attentional and / or perceptual and theoretical models relate processes.
4. Describe the different sensorial modes for capturing information involved in its production and its bio-physical-neurological foundations.
5. Distinguish the mechanisms of attentional processing.
6. Identify and describe the processes and phases involved in the codification of information.
7. Identify evaluation methods for attention processes.
8. Identify the different theoretical focuses of the scientific study of attention and perception processes.
9. Organize experiments on human perception and attention, reasoning decisions made in their planning.
10. Prepare and write reports based on the results of experiments on the processes of attention and perception.
11. Use different ICTs for different purposes.

Content

Block A: Attention

1. Definition and characteristics of attention
2. Variables that influence attention
3. Sustained attention. Selective attention. Divided attention
4. Attention and awareness

5. Applications of the study of attention

Block B: Perception

6. Definition and characteristics of perception

7. Perception and Psychophysics

8. Perceptual organization

9. Perception of colour, depth, size, and distance

10. Sensory systems

Methodology

A combination of teaching methods to promote student learning will be used: 1) Lectures, 2) Conferences given by experts on the field, 2) Laboratory practical sessions, 3) Practical sessions carried out in the classroom

The basic theoretical concepts and notions of the subject will be acquired through the lectures and conferences, and complementary bibliography will be made available for students.

The practical content will be carried out in two practical session typologies: in the laboratory sessions, students will carry out classical cognitive experiments, and in the classroom practical sessions, students will solve two problems/activities that will need to be presented orally.

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Conferences	7.5	0.3	2, 4, 6
Laboratory practical sessions	6	0.24	2, 3, 9, 11
Lectures	27	1.08	4, 6
Practical sessions carried out in the classroom	12	0.48	1, 2, 3, 9, 11
Type: Supervised			
Supervision	7.5	0.3	
Type: Autonomous			
Essay writing	24	0.96	1, 2, 3, 9, 11
Preparation of oral presentations	24	0.96	1, 2, 3, 9, 11
Study	40	1.6	1, 2, 3, 5, 10, 8, 7, 6, 9

Assessment

The subject will be assessed as follows:

1: Written exam (multiple choice) assessing Block A: Attention (30%). Week 10

2: Written exam (multiple choice) assessing Block B: Perception (30%). Week 18

3. Two oral presentations (20% -10% each-): the activities carried out in groups of 4-5 students in the classroom practical sessions will be presented orally. Weeks 9 and 15.

4. Research essay (20%): following the laboratory sessions, each group of 4-5 students will design and implement their own experiment and deliver a brief scientific report. Week 15.

Students will not be assessed in cases where they fail to deliver 40% or more of the activities. To pass this course students must achieve a minimum final grade of 5/10, given that the mean of the two exam grades is at least of 4/10. Where this requirement is met, the final grade will consist of the weighted average of the 4 activities (2 exams + 2 oral presentations + research essay). However, the grades corresponding to the practical sessions (2 oral presentations and the research essay) will only compute in the final grade if the mean of the two exams grades is equal or higher than 4/10. If the average grade of the two exams does not reach 4 points, the final grade of the subject will be that grade without adding the practical activities grades.

To be eligible to participate in the retake process, students are required to have previously been assessed for at least 2/3 of the total assessment activities, which corresponds to at least 3 out of the 4 activities. Additionally, students are required to have achieved an average final grade of the subject of less than 5 and equal or higher than 3.5. The retake will consist of 4 questions, each corresponding to an evaluation assessment activity and students will be able to retake activity 1 and/or 2, and/or 3, and/or 4. The grade of each question will substitute the original grade of the assessment activity; however, the maximum final grade will be 5.

The UAB assessment regulations can be found in the following link:

<https://www.uab.cat/web/estudiar/graus/graus/avaluacions-1345722525858.html>

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Laboratory practical sessions	20%	0	0	2, 3, 10, 9
Practical sessions carried out in the classroom	20%	0	0	1, 2, 3, 11
Written exam: Block 1. Attention	30%	1	0.04	4, 5, 8, 7, 6
Written exam: Block 2. Perception	30%	1	0.04	2, 4, 8, 6

Bibliography

Estaún, Santiago (2016). *Una iniciació a la Psicofísica*. Bellaterra. Publicacions UAB.

Fuentes, Luís & Garcia Sevilla, Júlia (2008). *Manual de psicología de la atención: una perspectiva neurocientífica*. Madrid: Síntesis.

Goldstein, Bruce (2006). *Sensación y percepción*. Madrid: International Thomson Editores.

Johnson, Addie & Proctor Robert (2015). *Atención. Teoría y práctica*. Madrid: Editorial Universitaria Ramón Areces.

Morgado, Ignacio (2012). *Cómo percibimos el mundo: Una exploración de la mente y los sentidos*. Barcelona: Ariel.