

Medical Psychology

Code: 102946
ECTS Credits: 6

Degree	Type	Year	Semester
2502442 Medicine	FB	2	1

Errata

There has been changes in the assessment of the subject. In the requirements to pass the subject should say: *"theory subject matter 8 through 15 and virtual classes 4 and 5"*

In the continuous evaluation should say: *"Second part of theory, of 35 questions on subjects 8 to 15 of theory and virtual classes 4 and 5"*

Contact

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Use of Languages

Principal working language: catalan (cat)
Some groups entirely in English: No
Some groups entirely in Catalan: No
Some groups entirely in Spanish: No

Teachers

Albert Fernández Teruel
Rosa Maria Escorihuela Agulló
Daniel Vega Moreno
Beatriz Molinuevo Alonso

Prerequisites

It is advisable that students have attained basic competences en Biostatistics and that have an English language level that allows them to follow the theory classes that will be taught in this language and to understand the written texts that will be used in the subject.

Objectives and Contextualisation

To acquire a repertoire of knowledge about the basic processes of human behaviour that allow the students to discern in future training stages between normal and abnormal psychological functioning.

To interpret and use concepts and measures derived from basic psychology that are commonly used in medical practice.

To describe the limitations and biases of our brain in information processing and the repercussions that they have on the behaviour of the doctor as well as the user of the health services.

To describe the relationship between psychological states, personality traits and somatic illnesses.

To describe the most common mental disorders and the most commonly used mental disorders classification systems.

To describe the essential characteristics and applications of the various evidence-based psychological treatments that can be used in medical practice.

All these goals must help the student to achieve a range of skills that enable him/her a better understanding of both the behavior of users of health systems and their own behavior.

Competences

- Demonstrate understanding of the importance and the limitations of scientific thought to the study, prevention and management of diseases.
- Demonstrate understanding of the principles of normal human behaviour and its alterations in different contexts.
- Demonstrate understanding of the structure and function of the body systems of the normal human organism at different stages in life and in both sexes.
- Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
- Identify and measure the affective and emotional components of human behaviour and their disorders.
- Obtain and prepare a patient record that contains all important information and is structured and patient-centred, taking into account all age and gender groups and cultural, social and ethnic factors.
- Recognise the effects of growth, development and ageing on individuals and their social environment.
- Recognise the role of complexity, uncertainty and probability in decision-making in medical practice.
- Recognize the determinants of population health, both genetic and dependent on gender, lifestyle, and demographic, environmental, social, economic, psychological and cultural factors.

Learning Outcomes

1. Administer psychological tests with screening functions, interpret results and draw conclusions.
2. Assess the relationships between the processes of motivation and emotion.
3. Define basic features of developmental psychology.
4. Define the main concepts and theories of the processes of motivation and emotion.
5. Demonstrate, in professional activity, a perspective that is critical, creative and research-oriented.
6. Describe the factors determining cognitive and social development and developmental differences between individuals.
7. Describe the general classification of mental disorders based on the ICD of the WHO and on the DSM.
8. Describe the influence of the cognitive processes (expectations, attributions, etc.) in decision-making.
9. Describe the main cognitive processes (thought, language, intelligence, sensation, perception, attention, consciousness, memory, learning).
10. Describe the main methods for classifying abnormal behaviour.
11. Distinguish and explain the different research methods in psychology.
12. Distinguish the disorders associated with cognitive and personality processes.
13. Distinguish the main mechanisms that regulate the processes of motivation and emotion.
14. Enumerate the advantages and the limitations of the scientific method in psychology.
15. Explain cognitive, emotional and psychosocial development in childhood, adolescence and adulthood.
16. Explain the concept of mental disorder.
17. Identify forms of measurement of the processes of motivation and emotion and explain their limitations.
18. Identify links between motivation and emotion and other psychological processes.
19. Identify the general aetiological factors involved in mental disorders.
20. Identify the main characteristics of the most common mental disorders.
21. Identify the most significant changes in human development at each stage in life and their effects.
22. Identify the problems of development.
23. Point out the main components of a psychopathological examination.
24. Transfer basic knowledge of the cognitive processes and personality processes to the field of health.
25. Transfer the basic conceptual understanding of the processes of motivation and emotion to the field of health.

Content

THEORY

- T1. Psychology and medicine: conceptual and methodological aspects
- T2. Development
- T3. Thinking and language
- T4. Intelligence
- T5. Sensation and perception*
- T6. Attention and consciousness*
- T7. Elemental learnings and classical conditioning
- T8. Instrumental conditioning
- T9. Memory
- T10. Motivation*
- T11. Emotion*
- T12. Personality
- T13. Stress, illness and health
- T14. Mental disorders
- T15. Psychological treatments in medicine

* These units will be taught in English

LABORATORY PRACTICES

1. Assessment of behaviour through psychological tests
- 2: The measurement of intelligence through the WAIS
3. Anxiety and stress: measurement and management

VIRTUAL CLASSES

1. Assessment of behaviour through psychological tests
2. Biasses in human thinking
3. The measurement of intelligence through the WAIS
4. Psychoneuroimmunology
5. Muscle relaxation

Methodology

Theory classes, laboratory practices, virtual classes and autonomous activities (self-study, reading articles / reports of interest).

Activities

Title	Hours	ECTS	Learning Outcomes
Type: Directed			
Laboratory practices	7	0.28	1, 23, 5, 10, 9, 11, 12, 17, 24
Theory	45	1.8	23, 3, 4, 5, 6, 10, 9, 7, 8, 13, 11, 12, 14, 16, 15, 21, 19, 22, 17, 20, 18, 24, 25, 2
Type: Supervised			
Virtual classes	15	0.6	1, 5, 8, 11, 12
Type: Autonomous			
Self-study; reading articles; reports of interest	76	3.04	1, 23, 3, 4, 5, 6, 10, 9, 7, 8, 13, 11, 12, 14, 16, 21, 19, 22, 17, 20, 18, 25, 2

Assessment

REQUIREMENTS TO PASS THE SUBJECT

To pass the subject, it must be passed with a minimum mark of 5 each of the three parts in which it is divided: a) subject matter of subjects 1 through 7 and virtual class 2; b) theory subject matter 8 through 15 and virtual class 4; and c) practical part and virtual classes 1 and 3.

The students will have two opportunities to pass each of the three parts: the first, the calls for partial assessments and the second in the reassessment test.

CONTINUOUS EVALUATION

1. Partial assessments of the subject

During the course there will be two calls for partial assessments of the subject. The dates will be those that determine the Team of coordination of the Teaching Unit. These evaluations, if passed, will be used to eliminate matter from the reassessment test. Each exam will lead to a separate mark. The questions

They will be multiple choice items with five response options and only a valid option.

Questions on topics taught in English (topics 5, 6, 10 and 11) will be in English.

A correction will be applied to discount random successes [$\text{Corrected score} = (\text{hits} - (\text{errors} / 4))$] that will be transformed into a mark that may vary between 0 and 10.

The first call for partial evaluation will consist of two exams: a) First theory part, of 31 questions about contents of topics 1 to 7 of theory and of the virtual class 2; and b) Examination of practices, of 12 questions on the subject of the three practices of the subject and the virtual classes 1 and 3.

The second call for partial evaluation will consist of an exam: Second part of theory, of 35 questions on subjects 8 to 15 of theory and the virtual class 4.

After each examination, the students will have a period of 24 hours to send, through the Virtual Campus, comments or claims about the questions, which will be analysed by the teachers before publishing the provisional list of marks. Subsequently, after the list is published, an exam review session will be convened, which will be announced at least two days in advance.

2. Assistance and active participation in class and virtual classes

2.1. Attendance and active participation in class: During the semester and within the hours of the theoretical classes, four activities will be carried out without prior notice so that students can demonstrate their attendance and active participation in the process teacher of the subject. The activities may be different for each group-classroom. The presence of the student and the answer to questions raised by the teacher related to it, will generate a mark (0 to 10) for each activity. The non-participation in the activity will imply a score of 0.

2.2. Participation in the virtual classes: The delivery of the answers of each one of the virtual classes will be counted.

TEST OF REASSESSMENT

Students who have not passed the subject through partial assessments may submit to a Reassessment Test that will be carried out on the day the Unit of the Teaching Unit coordinates. The test will consist of three parts: a) First partial theory; b) Second partial theory; and c) Examination of practices.

Each student will only have to examine the part that has not passed the partial assessments.

The characteristics of the exams as well as the formula for calculating the mark will be the same as those for partial assessments.

After the exams, the students will have a period of 24 hours to send through the Virtual Campus comments or claims about the questions, which will be analysed by the teachers before publishing the provisional list of marks. Subsequently, after the list is published, an exam review session will be convened, which will be announced at least two days in advance.

The students who have already passed the whole course or a part of it in the partial assessments and who wish to present themselves to improve the mark of one or more parts, may do so whenever they inform the coordinator of the Subject, through the Virtual Campus, with a minimum of three days in advance. The presentation to an examination to improve mark will automatically imply the resignation of the mark obtained in the corresponding partial evaluation test.

The students who have not passed the subject through the partial assessments and who on the day of the Evidence of Reassessment do not submit to the exam or exams of the unfulfilled parts, will be described as "NOT AVALUABLE."

FINAL MARK OF THE SUBJECT

Final mark = (mark First partial theory * 0.33) + (Second partial theory mark * 0.37) + (mark Practical exam * 0.20) + (average mark of the four marks of Assistance and participation active in class * 0.08) + (bonus of 0.05 points for each virtual class exercise delivered within the indicated period).

This formula will only be applied in the case that a mark of 5 has been obtained.

Assessment Activities

Title	Weighting	Hours	ECTS	Learning Outcomes
Attendance and active participation in class and seminars	10%	1	0.04	1, 3, 4, 5, 6, 10, 9, 7, 8, 13, 11, 12, 14, 16, 15, 21, 19, 22, 17, 20, 18, 24, 25, 2
Laboratory practices and virtual classes: Written evaluation: Objective tests: Selections Items: Multiple choice questions	20%	2	0.08	1, 5, 11, 12, 24
Theory and virtual classes: Written evaluation: Objective	70%	4	0.16	1, 23, 3, 4, 5, 6, 10, 9, 7,

Bibliography

Specific bibliography

GAZZANIGA, M. S. (2018). Psychological Science (6th ed.). New York: Norton.

MYERS, D. G. (2011). Psicología (9ª ed.). Buenos Aires; Madrid: Médica Panamericana.

Complementary bibliography (it can be found in the libraries of the UAB)

BERGER, K. S. (2016). Psicología del desarrollo: infancia y adolescencia. (9ª ed.). Buenos Aires: Médica Panamericana.

CARLSON, N. R. BIRKETT, M.A. (2017). Physiology of behavior (12th ed). Boston: Pearson/Allyn & Bacon.

DAVIDOFF, L. L. (2003). Introducción a la psicología (3ª ed.). México: McGraw-Hill/Interamericana.

DAVIDSON, R. J., SCHERER, K. R., GOLDSMITH, H. H. (Eds.). (2003). Handbook of affective sciences. New York: Oxford University Press.

GLEITMAN, H., FRIDLUND, A.J., REISBERG, D. (1999). Psychology (5ª ed.). New York: Norton.

GOLDSTEIN, E. B. (2006). Sensación y percepción (6ª ed.). Madrid: Thomson

KANDEL, E. R., SCHWARTZ, J. H., JESSELL, T. M., SIEGELBAUM, S. A., HUDSPETH, A. J. (2012). Principles of neural science (5th ed). New York: McGraw-Hill.

PÉREZ ÁLVAREZ, M., FERNÁNDEZ HERMIDA, J. R., FERNÁNDEZ RODRÍGUEZ, C., AMIGO VÁZQUEZ, I. (Coords.). (2003). Guía de tratamientos psicológicos eficaces. Madrid: Pirámide.

PERVIN, L. A. (1996). The Science of personality. New York: John Wiley & Sons.

REEVE, J. (2009). Understanding motivation and emotion (5th ed.). Hoboken, NJ : John Wiley & Sons.

ROLLS, E. T. (2005). Emotion explained. Oxford: Oxford University Press.

SCHACTER, D. L., GILBERT, D. T., WEGNER, D. M.(2014). Psychology (3rd. ed.). New York: Worth Publishers.

STECKLER, T., KALIN, N. H., REUL, J.M.H.M. (Eds.). (2005). Handbook of stress and the brain. Amsterdam: Elsevier.

TARPY, R.M. (2000). Aprendizaje: Teoría e investigación contemporáneas. Madrid: McGraw-Hill.

WADE, C., TAVRIS, C. (2003). Psicología (7ª Ed.). Madrid: Pearson Educación.

WARD, J. (2015). The student's guide to cognitive neuroscience (3rd ed.). New York: Psychology Press.