

Introduction to Scientific Methodology and to Basic Psychological Processes

Code: 101729 ECTS Credits: 6

2024/2025

| Degree | Туре | Year | |
|------------------------|------|------|---|
| 2500893 Speech therapy | FB | 1 | , |

Contact

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Teachers

Guillermo Parra Lorenzo Jaume Vives Brosa

Teaching groups languages

You can view this information at the <u>end</u> of this document.

Prerequisites

There are no prerequisite.

Objectives and Contextualisation

This course gives basic knowledge about documentation and scientific methodology, as well as competences for understanding and using scientific research terminology and methodology appropriately. Student will also acquire skills on identifying scientific main advances on the psychological processes linked with speech-therapist's professional development.

Student will understand, integrate and relate psychological processes' knowledge, based on autonomous learning. It will also be capable of analyzing and synthesize information acquired through different learning methodologies, using communication an information technologies when needed. These competences will give students new and efficient action perspectives, when facing professional world.

Competences

 Act with ethical responsibility and respect for fundamental rights and duties, diversity and democratic values.

- 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.
- Innovate in the methods and processes of this area of knowledge in response to the needs and wishes
 of society.
- Managing communication and information technologies.
- Students can apply the knowledge to their own work or vocation in a professional manner and have the
 powers generally demonstrated by preparing and defending arguments and solving problems within
 their area of study.
- Students must be capable of collecting and interpreting relevant data (usually within their area of study) in order to make statements that reflect social, scientific or ethical relevant issues.
- Take sex- or gender-based inequalities into consideration when operating within one's own area of knowledge.
- Understand, integrate and relate new knowledge deriving from autonomous learning.

Learning Outcomes

- 1. Analyse a situation and identify points for improvement.
- 2. Analyse and synthesise.
- 3. Assess and judge the adequacy of the methodology used in specific research.
- 4. Assess and judge the results of a specific scientific research in an area of speech therapy.
- 5. Communicate in an inclusive manner avoiding the use of sexist or discriminatory language.
- 6. Correctly use the terminology and methodology characteristics of scientific research.
- 7. Critically analyse the principles, values and procedures that govern the exercise of the profession.
- 8. Explain the explicit or implicit code of practice of one's own area of knowledge.
- 9. Identify and assess the adequacy of scientific productions on the acquisition and development of language.
- 10. Identify key inputs from scientific processes related to psychological processes that support the professional development of speech therapists.
- 11. Managing communication and information technologies.
- 12. Propose new experience-based methods or alternative solutions.
- 13. Students can apply the knowledge to their own work or vocation in a professional manner and have the powers generally demonstrated by preparing and defending arguments and solving problems within their area of study.
- 14. Students must be capable of collecting and interpreting relevant data (usually within their area of study) in order to make statements that reflect social, scientific or ethical relevant issues.
- 15. Understand, integrate and relate new knowledge deriving from autonomous learning.
- 16. Weigh up the impact of any long- or short-term difficulty, harm or discrimination that could be caused to certain persons or groups by the actions or projects.

Content

- 1. Scientific documentation
- 1.1. Bibliographic Search: PsycINFO, Medline and ISI-WoK (WoS and JCR)
- 1.2. Citation and refering norms
- 1.3. Software for bibliography management
- 1.4. Structure of a scientific report
- 2. Principles of research methodology
- 2.1. Evidence-based practice

- 2.2. Quantitative and qualitative methodologies
- 2.3. Constructs: Operationalization and measurement
- 2.4. Types of variables
- 2.5. General view of research methods, designs and techniques in Speech Therapy
- 2.6. Selection and assignment concepts
- 2.7. Introduction to the threats to internal validity
- 2.8. Control techniques
- 2.9. Experimental one-factor designs
- 3. Conditioning and Learning
- 3.1. Classical Conditioning: Foundations and Main Behavioral Phenomena
- 3.2. Instrumental conditioning: Foundations and Basic Procedures
- 3.3. Observation learning
- 4. Motivation: general features
- 4.1. Physiological motivation
- 4.2. Extrinsic and intrinsic motivation
- 4.3. Cognitive motivation
- 5. Emotion
- 5.1. General characteristics
- 5.2. Components of the emotional response
- 5.3. Emotional stimuli processing
- 5.4. Emotion and cognition
- 6. Attention and Perception
- 6.1. Physiological basis
- 6.2. Measures of sensory sensitivity
- 6.3. Perceptual organization
- 6.4. Perceptual constancy and illusions
- 6.5. Perception in context
- 7. Memory
- 7.1. Memory model
- 7.2. Sensory register or sensory memory
- 7.3. Short term Memory (MCT)

- 7.4. Long term Memory (MLT)
- 7.5. Forgetting

Activities and Methodology

| Title | Hours | ECTS | Learning Outcomes |
|--|-------|------|----------------------|
| Type: Directed | | | |
| Face to face and virtual teaching with big group. | 28.5 | 1.14 | 3, 4, 6, 10 |
| Teaching face to face with small groups (seminars / practices). | 24 | 0.96 | 3, 4, 6, 9, 11 |
| Type: Supervised | | | |
| | 12.5 | 0.5 | 2, 9 |
| Type: Autonomous | | | |
| Exercises of self-evaluation , readings Complementary and study of the contents of the master's. | 78.5 | 3.14 | 11, 15 |

- Lectures with ICT support and debate in large groups
- Classes with small groups (seminars / practices)
- Tutoring online of activities proposed in the virtual classroom.
- self-evaluation exercises.
- Readings and videos for complementary content.

Annotation: Within the schedule set by the centre or degree programme, 15 minutes of one class will be reserved for students to evaluate their lecturers and their courses or modules through questionnaires.

Assessment

Continous Assessment Activities

| Title | Weighting | Hours | ECTS | Learning Outcomes |
|--|-----------|-------|------|-----------------------------------|
| EV2 First evaluation period- First test summary Topics 1 to 4 | 40% | 2 | 0.08 | 3, 4, 6, 10, 13, 14 |
| Ev1a-Ev1j reflection exercises of the virtual campus of the Seminars from 3 to 12. | 25% | 2.5 | 0.1 | 2, 5, 8, 9, 11, 12, 13, 14, 15 |
| Ev3 Second avaluation period- Test summary Topics 5 to 7 | 35% | 2 | 0.08 | 1, 2, 6, 7, 10, 15, 16 |

PASS: When the final weighted sum of all the evidences is equal to or greater than 5.0.

Those students who have done evidence with a weight of less than 40% of the final grade will be "Not assessed."

Following criteria should be accomplished for resit:

- a) having done evidences with a weight of at least 67%
- b) a final score of between 3.5 and 4.8.

The resit test will assess those competences with unsatisfactory results. For each student, teacher will design the appropriately resit process.

The grade of the resit test can be "pass" or "not pass". When passing the resit test, the final course grade will be 5.0.

Faculty of Psychology assessment guidelines (2023-24) will be applied: : https://www.uab.cat/web/estudiar/graus/graus/avaluacions-1345722525858.html

Exam translation: The exam can only be translated into CATALAN or SPANISH on a few occasions (i.e., ERASMUS, SICUE, first year taken by people from outside Catalonia) Please indicate the following text: THE TRANSLATION OF THE FACE-TO-FACE ASSESSMENT TESTS WILL BE DELIVERED IF THE REQUIREMENTS ESTABLISHED IN ARTICLE 263 ARE MET AND THEIR REQUEST IS MADE. APPLICATION WEEK 4 ELECTRONICALLY (E-FORM) (more information on the Faculty website).

SINGLE ASSESSMENT: SINGLE ASSESSMENT IS REQUESTED APPLY ELECTRONICALLY (E-FORM) IN THE SPECIFIC PERIOD (more information on the Faculty website)

Conditions for students who have registered their registration for the single assessment:

- It will take place coinciding in date, starting time and place with Evidence 2.
- It will consist of three tests; a) test of 12-14 questions of reflection and/or analysis of cases corresponding to the seminars b) test of synthesis type test of topics 1 to 4 c) test type test of topics 5 to 7.
- The weight of each test will be the same as that established for the continuous assessment.
- The estimated duration of the singleassessment is 3:30-4 h.

Continuous assessment: The same resit process as the continuous assessment will be applied.

Bibliography

Basic bibliography

Portell, M. i Vives, J. (2014). Introducció als dissenys experimentals, quasi-experimentals i ex post facto. Sèrie Materials #229. Bellaterra: Servei de Publicacions UAB.

Myers, G.D. (2011) Psicología. (9ªa Ed.). Buenos Aires: Editorial Médica Panamericana, S.A.

Further reading

Topic 2

Domjan, M. (1998) Bases del aprendizaje y el condicionamiento. Jaen: del Lunar. Caps. 1, 4, 6 i 12.

Topic 3

Reeve, J. (1994) Motivación y Emoción. Madrid: McGraw-Hill.

Topic 4

Aguado, L.(2005) Emoción, afecto y motivación. Madrid: Alianza Editorial

Topic 5

Goldstein, B.E. (2009) Sensación y Percepción (6ª Ed). Madrid: Thomson Editores. Paraninfo. Luria, R.A. (1979) El Cerebro en Acción. Barcelona: Martínez Roca. Caps. I i II.

Manning, S.A., i Rosentock, E.H. (1971) Elaboración de escalas de actitudes y psicofísica clásica. México: Trillas. Cap. 1.

Matlin, M.W., i Foley, H.J. (1996) Sensación y Percepción. México: Prentice Hall Hispanoamericana. Cap. 2

Topic 6

Ruiz-Vargas, JM (2010) Manual de Psicología de la Memoria. Madrid: Editorial Síntesis.

Software

no specific software is required

Language list

| Name | Group | Language | Semester | Turn |
|-------------------------------|-------|----------|----------------|---------------|
| (PLAB) Practical laboratories | 111 | Catalan | first semester | morning-mixed |
| (PLAB) Practical laboratories | 112 | Catalan | first semester | morning-mixed |
| (PLAB) Practical laboratories | 113 | Catalan | first semester | morning-mixed |
| (PLAB) Practical laboratories | 114 | Catalan | first semester | morning-mixed |
| (TE) Theory | 1 | Catalan | first semester | morning-mixed |