



Information about the subject

Degree: Bachelor of Science Degree in Psychology

Faculty: Faculty of Psychology

Code: 290402 **Name:** Research Methodology

Credits: 6,00 **ECTS Year:** 4 **Semester:** 1

Module: RESEARCH FUNDAMENTALS AND METHODOLOGY

Subject Matter: RESEARCH METHODS, DESIGNS AND TECHNIQUES **Type:** Compulsory

Field of knowledge: Health Sciences

Department: -

Type of learning: Classroom-based learning / Online

Languages in which it is taught: Spanish

Lecturer/-s:

| | | |
|--------|---|-------------------------|
| 1173P | <u>David Melero Fuentes</u> (Responsible Lecturer) | david.melero@ucv.es |
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Module organization

RESEARCH FUNDAMENTALS AND METHODOLOGY

| Subject Matter | ECTS | Subject | ECTS | Year/semester |
|--|-------|-----------------------------------|------|---------------|
| STATISTICS | 12,00 | Fundamentals and Analysis of Data | 6,00 | 1/1 |
| | | Psychometrics | 6,00 | 2/1 |
| RESEARCH METHODS, DESIGNS AND TECHNIQUES | 6,00 | Research Methodology | 6,00 | 4/1 |
| MODERN LANGUAGE | 6,00 | Scientific English | 6,00 | 1/1 |

Recommended knowledge

Fundamentals and Analysis of Data course.



Learning outcomes

At the end of the course, the student must be able to prove that he/she has acquired the following learning outcomes:

- R1 Acquiring a correct mental representation of the theoretical-practical contents of the module.
- R2 Working in groups in order to carry out different practical activities.
- R3 Obtaining and organizing information from different sources (journals, books, Internet).
- R4 Communicating the results and conclusions of a research study.
- R5 Solving practical exercises related to the contents of the module.
- R6 Using specific software for the resolution of problems related to the contents of the module.



Competencies

Depending on the learning outcomes, the competencies to which the subject contributes are (please score from 1 to 4, being 4 the highest score):

| SPECIFIC | | Weighting | | | |
|-------------|---|-----------|---|---|---|
| | | 1 | 2 | 3 | 4 |
| CE1 | Analyzing needs and requests of addressee functions in different contexts. | | | X | |
| CE4 | Analyzing and measuring variables (personality, intelligence and other aptitudes) and cognitive, emotional, psychobiological and behavioral processes . | | | X | |
| CE14 | Contrasting and checking tools, products and services (prototypes and pilot studies). | | | X | |
| CE15 | Defining objectives and devising action plans according to action goals. (prevention, treatment, rehabilitation, insertion, support). | | | X | |
| CE25 | To be able to measure and to collect relevant data for the evaluation of the interventions | | | | X |
| CE26 | Writing oral and written reports. | | | | X |
| CE27 | Knowing and adapting to the psychology code of ethics. | | | | X |
| CE35 | To know research methods and data analysis techniques. | | | | X |
| CE36 | To know different research design methods, the procedures of formulation and contrast of hypothesis and the interpretation of the results. | | | | X |
| TRANSVERSAL | | Weighting | | | |
| | | 1 | 2 | 3 | 4 |
| CT1 | Capacity to analyze and synthesize. | | | | X |
| CT4 | Command of a foreign language. | | X | | |



| | | | | |
|------|--|---|---|---|
| CT5 | Knowing and applying Basic ITC skills related to Psychology. | x | | |
| CT7 | Problem solving. | | x | |
| CT14 | Critical capacity. | | | x |
| CT15 | Ethics. | | | x |



Assessment system for the acquisition of competencies and grading system

In-class teaching

| Assessed learning outcomes | Granted percentage | Assessment method |
|----------------------------|--------------------|--|
| R1, R3, R4, R5, R6 | 70,00% | Oral and/or written tests employed in initial, training and/or summative student assessment. |
| R1, R3, R4, R5, R6 | 10,00% | Attendance and active participation: lessons, group assignments and tutoring sessions. It will be monitored and registered by the teacher. |
| R1, R2, R3, R4 | 20,00% | Group assignments. |

Observations

A minimum mark must be obtained in the tests and activities in order for them to be accumulated (50% of the total mark that can be obtained with each evaluation system). CRITERIA FOR THE AWARD OF HONOUR GRADUATION: Those who obtain a mark higher than 9.5 will be eligible for an assessment test for the award of Honours. The awarding of this mention will depend on the grade obtained in the evaluation test and the maximum number that can be awarded.

Online teaching

| Assessed learning outcomes | Granted percentage | Assessment method |
|----------------------------|--------------------|--|
| R1, R2, R3, R6 | 70,00% | Final evaluation consisting of essay questions and hypothetical scenarios. |
| R4, R5, R6 | 5,00% | Submitted tasks |
| R3, R5 | 5,00% | Periodical assessment through questionnaires |
| R2, R3, R4, R6 | 20,00% | Attendance and participation in synchronic communication activities. |

Observations

A minimum mark must be obtained in the tests and activities in order for them to be accumulated (50% of the total mark that can be obtained with each evaluation system). CRITERIA FOR THE AWARD OF HONOUR GRADUATION: Those who obtain a mark higher than 9.5 will be eligible for an assessment test for the award of Honours. The awarding of this mention will depend on the grade obtained in the evaluation test and the maximum number that can be awarded.



Learning activities

The following methodologies will be used so that the students can achieve the learning outcomes of the subject:

- M1 Teacher presentation of contents, competency analysis, explanation and demonstration of capacities, abilities and knowledge in the classroom (presential modality).
- M2 Teacher-supervised groupwork sessions: case studies, diagnostic tests, problems, fieldwork, IT room, visits, data searches, libraries, web, Internet, etc. Building knowledge significantly through interaction and student activities (presential modality).
- M3 Supervised monographic sessions with shared participation.
- M4 Application of interdisciplinary knowledge.
- M7 Set of oral and/or written tests employed in initial, training or summative assessment of the student.
- M8 Group preparation of readings, essays, problem resolution, seminars, assignments, reports, etc. to be presented or handed in during theory lessons, practical lessons and/or tutoring sessions in small groups. Tasks done on the platform or other virtual spaces.
- M9 Students' independent study: individual preparation of readings, essays, problem resolution, seminars, assignments, reports, etc. to be presented or handed in during theory lessons, practical lessons and /or small-group tutoring sessions. Tasks on the platform or other virtual spaces.
- M11 Teacher presentation of contents, competencies analysis, explanation and demonstration of capacities, abilities and knowledge on the virtual classroom.
- M12 Group work sessions via chat moderated by the teacher. Case studies –both real and fictional– aimed at building knowledge through interaction and students' activities. Critical analysis of values and social commitment.
- M13 Monographic sessions throughout the course, focused on current aspects and applications of the subject.
- M14 Set of oral and/or written tests employed in initial, training or summative assessment of the student.



- M15 Student's individual study: individual preparation of readings, essays, problem resolution, seminars, assignments, reports, etc. to be discussed or turned in in electronic format.
- M16 Individualized attention for the monitoring and orientation in the learning process, performed by a tutor in order to revise and discuss the materials and topics, seminars, readings and assignments, etc.
- M17 Group preparation of readings, essays, problem resolution, seminars, assignments, reports, etc. to be discussed or handed in.
- M18 Participation and contributions to discussion forums related to the subject and moderated by the module's teacher.
- M19 Problem resolution, comments, reports to be handed in according to the deadlines throughout the course.



IN-CLASS LEARNING

IN-CLASS LEARNING ACTIVITIES

| | LEARNING OUTCOMES | HOURS | ECTS |
|--|------------------------|--------------|-------------|
| ON-CAMPUS CLASS Teacher presentation of contents, analysis of competences, explanation and in-class display of skills, abilities and knowledge. M1, M7 | R1, R4, R5, R6 | 38,00 | 1,52 |
| PRACTICAL CLASSES Group work sessions supervised by the professor. Case studies, diagnostic tests, problems, field work, computer room, visits, data search, libraries, on-line, Internet, etc. Meaningful construction of knowledge through interaction and student activity. M2, M3, M4 | R2, R6 | 14,90 | 0,60 |
| SEMINAR Supervised monographic sessions with shared participation. M4 | R1 | 1,40 | 0,06 |
| GROUP WORK EXHIBITION Application of multidisciplinary knowledge. M2, M8 | R1, R2, R3, R4, R5, R6 | 1,60 | 0,06 |
| OFFICE ASSISTANCE Personalized and small group attention. Period of instruction and/or orientation carried out by a tutor to review and discuss materials and topics presented in classes, seminars, papers, etc. M8 | R1, R6 | 1,60 | 0,06 |
| ASSESSMENT Set of oral and/or written tests used in initial, formative or additive assessment of the student. M1, M7 | R1, R5, R6 | 2,50 | 0,10 |
| TOTAL | | 60,00 | 2,40 |



LEARNING ACTIVITIES OF AUTONOMOUS WORK

| | LEARNING OUTCOMES | HOURS | ECTS |
|---|-------------------|--------------|-------------|
| GROUP WORK Group preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform M3 | R1, R3, R6 | 33,50 | 1,34 |
| INDEPENDENT WORK Student study: Individual preparation of readings, essays, problem solving, seminars, papers, reports, etc. to be presented or submitted in theoretical lectures, practical and/or small-group tutoring sessions. Work done on the university e-learning platform. M2, M7 | R5, R6 | 56,50 | 2,26 |
| TOTAL | | 90,00 | 3,60 |



ON-LINE LEARNING

SYNCHRONOUS LEARNING ACTIVITIES

| | LEARNING OUTCOMES | HOURS | ECTS |
|--|-------------------|--------------|-------------|
| Virtual session (distance learning) M11, M13, M14, M19 | R1, R3, R5, R6 | 38,00 | 1,52 |
| Virtual practical session (distance learning) M12, M13, M16, M17, M18 | R2, R3, R5, R6 | 14,90 | 0,60 |
| Seminar and virtual videoconference (distance learning) M13, M18 | R1, R2 | 1,40 | 0,06 |
| In-person or virtual assessment (distance learning) M11, M15 | R1, R2, R4, R5 | 2,50 | 0,10 |
| Individual tutoring sessions (distance learning) M16, M17 | R1, R5, R6 | 1,60 | 0,06 |
| Discussion forums (distance learning) M11, M12, M13 | R1, R2 | 0,80 | 0,03 |
| Continuous assessment activities (distance learning) M14, M17 | R1, R2, R6 | 0,80 | 0,03 |
| TOTAL | | 60,00 | 2,40 |

ASYNCHRONOUS LEARNING ACTIVITIES

| | LEARNING OUTCOMES | HOURS | ECTS |
|---|-------------------|--------------|-------------|
| Individual work activities (distance learning) M17 | R2, R3, R6 | 56,50 | 2,26 |
| Teamwork (distance learning) M11, M14 | R5, R6 | 33,50 | 1,34 |
| TOTAL | | 90,00 | 3,60 |



Description of the contents

Description of the necessary contents to acquire the learning outcomes.

Theoretical contents:

| Content block | Contents |
|--|---|
| Introduction to scientific research | Fundamentals of research Research process |
| Scientific communication and information retrieval | Sources of information Search strategy methodology |
| Research Manuscript | Key sections APA Style |
| Qualitative and quantitative methodologies | Research Designs Data analysis |

Temporary organization of learning:

| Block of content | Number of sessions | Hours |
|--|--------------------|-------|
| Introduction to scientific research | 5,00 | 10,00 |
| Scientific communication and information retrieval | 8,00 | 16,00 |
| Research Manuscript | 3,00 | 6,00 |
| Qualitative and quantitative methodologies | 14,00 | 28,00 |



References

- American Psychological Association (2020). Publication Manual of the American Psychological Association (Spiral Bound). Washington: American Psychological Association.
- Ato, M. y Vallejo, G. (2015). Diseños de Investigación en Psicología. Madrid: Pirámide.
- Fontes de Gracia, S., García Gallego, C., Quintanilla Cobián, L., Rodríguez Fernández, R., Rubio de Lemus, P. y Sarriá Sánchez, E. (2010). Fundamentos de investigación en psicología. Madrid: UNED
- García, C., Quintanilla, L., Garriga, A., Fontes, F., Pérez-Llantada, M.C., Sarriá, E. (2007). Diseños de investigación en Psicología. Cuaderno de prácticas. Madrid: UNED
- García García, A. M. y Fernández Muñoz, E. (2013). Publicación y lectura crítica de artículos científicos. Barcelona: Signo.
- Martínez, R., Castellanos, M. A. y Chacón, J. C. (2014). Métodos de Investigación en Psicología. Eos Universitaria.
- Somoza Fernandez, M. (2015). Búsqueda y recuperación de información en bases de datos de bibliografía científica. Gijón: Trea.