

Academic Year/course: 2022/23

## 63131 - Design of Educational Research I

### Syllabus Information

**Academic Year:** 2022/23

**Subject:** 63131 - Design of Educational Research I

**Faculty / School:** 107 - Facultad de Educación

**Degree:** 330 - Complementos de formación Máster/Doctorado  
573 - Master's in Lifelong Learning: Introduction to Research

**ECTS:** 7.0

**Year:** 573 - Master's in Lifelong Learning: Introduction to Research: 1  
330 - Complementos de formación Máster/Doctorado: XX

**Semester:** Annual

**Subject Type:** 330 - ENG/Complementos de Formación

573 - Compulsory

**Module:**

## 1. General information

## 2. Learning goals

### 2.2. Learning goals

To pass this subject, students should obtain the following results:

1. Plan a research theme using methodologies that involve considerable, average and/or little (experimental, selective, observational) intervention
2. Understand the strong and weak points of the designs with considerable, average and/or little intervention used in different research methodologies
3. Suitably identify and justify the research design used in different studies
4. Calculate and justify the quality of data in research according to the parameters demanded in each research design type (reliability, validity, generalisability, etc.).
5. Justify the choice of data analysis procedures and techniques from designing research, and the research objectives, hypotheses (if applicable), variables, etc.
6. Interpret the results of the different data analysis techniques applied and draw conclusions from them.

## 3. Assessment (1st and 2nd call)

## 4. Methodology, learning tasks, syllabus and resources

### 4.1. Methodological overview

The methodology followed in this course is oriented towards achievement of the learning objectives. It is based on active participation, case studies, teamwork etc. that favors the development of communicative skills and critical thinking. A wide range of teaching and learning tasks are implemented, such as lectures, practical activities, practice sessions, autonomous work, tutorials, and academic guidance.

Further information regarding the course will be provided on the first day of class.

## 4.2. Learning tasks

The course (7 ECTS) includes the following learning tasks:

Section 1. Experimental, quasi-experimental and selective methodology (3.5 credits)

- Lectures.
- Practice sessions.
- Assessment.

Section 2: Observational Methodology (2.5 credits)

- Lectures.
- Practice sessions.
- Assessment.

Section 3: Quantitative data analysis (1 credit)

- Lectures.
- Practice sessions.
- Assessment.

## 4.3. Syllabus

The course will address the following topics:

- Introduction to applied research design with methodologies of high, medium, and low intervention.
- Experimental and quasi-experimental designs (unifactorial, multifactorial, ex post facto ...)
- Selective designs (correlational, transverse, longitudinal, ...)
- Observational designs (diachronic, synchronic, lag-log, ...)
- Techniques of data collection in the different methodological strategies
- Techniques of analysis of basic data in the different methodological designs

## 4.4. Course planning and calendar

For further details concerning the timetable, classroom and further information regarding this course please refer to the "Facultad de Educación" website (<http://educacion.unizar.es/>)

## 4.5. Bibliography and recommended resources

<http://psfunizar10.unizar.es/br13/egAsignaturas.php?codigo=63131>