

63131 - Design of Educational Research I

Syllabus Information

Academic Year: 2019/20

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: XX

Semester: Annual

Subject Type: 573 - Compulsory

330 - ENG/Complementos de Formación

Module: ---

1.General information

1.1.Aims of the course

1.2.Context and importance of this course in the degree

1.3.Recommendations to take this course

2.Learning goals

2.1.Competences

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.

2.3.Importance of learning goals

3.Assessment (1st and 2nd call)

3.1.Assessment tasks (description of tasks, marking system and assessment criteria)

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)

Formative activity	Hours	% Attendance
Lectures	15	100%
Practice sessions	20	50%
Assessment	3	100%

Section 2: Observational Methodology (2.5 credits)

Formative activity	Hours	% Attendance
Lectures	10	100%
Practice sessions	14	50%
Assessment	2	100%

Section 3: Quantitative data analysis (1 credit)

Formative activity	Hours	% Attendance
Lectures	5	100%
Practice sessions	6	50%
Assessment	1	100%

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

Recommended updated bibliography of the subject: look on the web page of the library
<http://psfunizar7.unizar.es/br13/eBuscar.php?tipo=a>