

Teaching guide

IDENTIFICATION DETAILS

Academic year:	2025-2026		
Degree:	University Master's Degree in Bilingual Education		
Scope	Educational sciences		
Faculty/School:	Postgraduate and Lifelong Learning School		
Course:	DISEÑO DE LA INVESTIGACIÓN		
Type:	Optional	ECTS credits:	4
Year:	1	Code:	8391
Teaching period:	Second semester		
Subject:	Research Orientation		
Module:			
Teaching type:	Virtual		
Language:	English		
Total number of student study hours:	100		

Teaching staff	E-mail
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SUBJECT DESCRIPTION

General concepts of educational. Research and innovate to transform the classroom.
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GOAL

The objective of the course is the acquisition of research designs applied to bilingual teaching.

PRIOR KNOWLEDGE

No specific theoretical requirements for this course. Good command of English is expected.

COURSE SYLLABUS

Unit 1: EDUCATIONAL RESEARCH METHODS AND DESIGNS

- 1.1 Introduction
- 1.2 Hypothetical - deductive method
 - 1.2.1 Characteristics
- 1.3 Designs
 - 1.3.1 Requirements
 - 1.3.2 Experimental or Quantitative Design
 - 1.3.3 Non - experimental or qualitative design
 - 1.3.3.1 Cross - sectional or transverse designs
 - 1.3.3.2 Longitudinal designs
 - 1.3.4 Quasi - experimental or mixed design
- 1.4 References

Unit 2: RESEARCH PLANNING AND THEORETICAL FRAMEWORK

- 2.1. Introduction
- 2.2. Problem statement
 - 2.2.1 Actions prior to the research problem statement
 - 2.2.2. Actions to be carried out for the statement of the research problem
- 2.3. Elements of Research: The Variables
- 2.4. Formulation of hypotheses
 - 2.4.1 Characteristics of hypotheses
 - 2.4.2 Functionality of hypotheses
 - 2.4.3 Definition of hypotheses in the scientific problem
 - 2.4.4 Types of hypotheses in relation to variables
 - 2.4.5 Hypothesis testing
- 2.5 References

UNIT 3: SAMPLING AND INSTRUMENTATION

- 3.1. Introduction
- 3.2. The theoretical framework
- 3.3. Bibliographic Management Applications (BMA)
- 3.4. Sample and population
- 3.5. Types of sampling
 - 3.5.1. Probability Sampling
 - 3.5.2. Cluster randomization
- 3.6. References

UNIT 4: DATA COLLECTION

4.1. Introduction

4.2. Instrumentation and Data Collection

4.2.1. Instruments for quantitative designs in educational research

4.2.2. Instruments for qualitative designs in educational research

- Case studies • Ethnography
 - Participant and non - participant observation
 - Focus groups
 - Diary and anecdotes
 - Self-recording
 - Interview
 - Life history or biographical narrative
- #### 4. 2. 3. Collecting and Analyzing Data with Specific Software

EDUCATION ACTIVITIES

The subject is developed with distance methodology through the Virtual Classroom where the student will have:

- Synchronous online classes taught by the teacher in which theoretical and practical aspects will be worked on in which the student can participate during them.
- In them the contents will be reviewed and the student's doubts will be answered live. These classes will be recorded on the platform.
- Tutorials to resolve doubts.
- Study material for the required reading subject: Teaching units, presentations with the summary of the classes and other material selected by the teacher (articles, videos and audios).
- Work and activities to be carried out by the student and debate and participation forums that aim to deepen the subject.

DISTRIBUTION OF WORK TIME

TEACHER-LED TRAINING ACTIVITIES	INDIVIDUAL WORK
20 Hours	80 Hours

LEARNING RESULTS

Be able to do an adequate documentary review.

Be able to design and carry out qualitative and quantitative research and educational innovations in the field of foreign languages.

Apply different tools for educational research.

Analyze the cognitive processes and the basic conditioning factors involved in the acquisition and learning processes of the mother tongue (s) and the second language (s) (English language).

Identify the elements of the research process.

Analyze the results of different research in education in the field of foreign languages.

SPECIFIC LEARNING RESULTS

Formulate a problem in a logical, coherent and objective way.

Adjust the different research methodologies to the problem posed by applying the necessary knowledge acquired.

Design of replicable research.

Communicate and justify the results obtained with respect to existing theories in the field of early care. It generates new theoretical frameworks and educational intervention programs in the field of bilingual teaching.

LEARNING APPRAISAL SYSTEM

ORDINARY CALL EXAM.

EXAM. Multiple choice test 50% (5 points).

- It will be necessary to take the exam to pass the subject.

ACTIVITIES. Works with theoretical and practical questions: 40% (4 points).

- Activity 1:2 points
- Activity 2:2 points

PARTICIPATION. Active participation: 10% (1 point).

Forums: 0.5 points

- Forum 1:0.25 points
- Forum 2:0.25 points

- The comment to each of the forums must contain between 60 and 120 words to be taken into account. Class participation: 0.5 points Participation will be valued through proactive participation in the class sessions.

PARTICIPATION CAN NEVER BE EVALUATED BY THE CONNECTION TO THE CLASS SESSIONS, but the students must participate in them and justify it by means of a screenshot that the must upload to the platform.

Those students who cannot connect to the class sessions will have the possibility to visualize the session and make a SUMMARY to obtain that participation note.

- The summary must contain between 120 and 240 words, summarize the content of the class session and the practical activities carried out.

EXTRAORDINARY CALL

EXAM. Multiple choice test 50% (5 points).

- It will be necessary to take the exam to pass the subject.

ACTIVITIES. Works with theoretical and practical questions: 40% (4 points).

- Activity 1:2 points
- Activity 2:2 points

PARTICIPATION. Active participation: 10% (1 point).

Forums: 0.5 points

- Forum 1:0.25 points
- Forum 2:0.25 points

- The comment to each of the forums must contain between 60 and 120 words to be taken into account.

Attendance and participation: it is necessary to carry out the attendance and participation in the class sessions in the ordinary call in order to obtain this score. It will not be possible to get the score for class attendance and participation if it is not done during the ordinary call.

SECOND AND FOLLOWING CALLS. For these students, the ordinary and extraordinary call system will remain the same.

ADDITIONAL INFORMATION DELIVERY OF ACTIVITIES.

The student must deliver the exercises on the date and channels indicated. The student is responsible for being aware of the Virtual Classroom to check these deliveries and deadlines. The work will be delivered on the date indicated by the teacher, in PDF format, in the space designated for this purpose in the Virtual Classroom of the subject, not being the teacher's responsibility that the Virtual Classroom system collapses minutes before delivery. Delivery of activities will not be accepted by email to the teacher. All those works presented out of date or by other means will count as not presented works.

EVALUATION REGULATIONS All the tests that can be evaluated will be subject to what is established in the UFV Graduate School and Permanent Training Evaluation Regulations and the University's Coexistence Regulations. Plagiarism behaviors, as well as the use of illegitimate means in the assessment tests, will be sanctioned in accordance with what is established in these regulations. Teachers have at their disposal an anti-plagiarism computer tool that they can use as they deem necessary. The student will be obliged to accept the permissions for the use of the tool in order for that activity to be qualified.

The use of artificial intelligence to perform any of the requested deliveries that are part of the evaluation system is not allowed.

SCORES The final grade will be based on a total score of 10 points obtained by the student, according to the following scale: Failure (suspended): 0-4.99/Pass (approved): 5-6.99/Remarkable (notable): 7-8.99/Excellent (outstanding): 9-10 and Matriculation of Honor (enrollment of honor), which will imply having obtained outstanding, in addition to a special mention.

Those absences that are due, solely, to these three cases will be justified (requesting documentation for said justification):

- Writ of summons.
- Hospitalization.
- Death of direct family member.

ETHICAL AND RESPONSIBLE USE OF ARTIFICIAL INTELLIGENCE

1.- The use of any Artificial Intelligence (AI) system or service shall be determined by the lecturer, and may only be used in the manner and under the conditions indicated by them. In all cases, its use must comply with the following principles:

- a) The use of AI systems or services must be accompanied by critical reflection on the part of the student regarding their impact and/or limitations in the development of the assigned task or project.
- b) The selection of AI systems or services must be justified, explaining their advantages over other tools or methods of obtaining information. The chosen model and the version of AI used must be described in as much detail as possible.
- c) The student must appropriately cite the use of AI systems or services, specifying the parts of the work where they were used and describing the creative process followed. The use of citation formats and usage examples may be consulted on the Library website(https://www.ufv.es/gestion-de-la-informacion_biblioteca/).
- d) The results obtained through AI systems or services must always be verified. As the author, the student is responsible for their work and for the legitimacy of the sources used.

2.- In all cases, the use of AI systems or services must always respect the principles of responsible and ethical use upheld by the university, as outlined in the [Guide for the Responsible Use of Artificial Intelligence in Studies at UFV](#). Additionally, the lecturer may request other types of individual commitments from the student when deemed necessary.

3.- Without prejudice to the above, in cases of doubt regarding the ethical and responsible use of any AI system or service, the lecturer may require an oral presentation of any assignment or partial submission. This oral evaluation shall take precedence over any other form of assessment outlined in the Teaching Guide. In this oral defense, the student must demonstrate knowledge of the subject, justify their decisions, and explain the development of their work.

BIBLIOGRAPHY AND OTHER RESOURCES

Basic

Ary, D., Jacobs, L., Sorensen, C., & Walker, D. Introduction to research in education. (2013). Cengage Learning

Creswell, J. W. Research Design: Qualitative, Quantitative, and Mixed Methods Approaches. 2014 4th ed. Sage Publications.

Cochran, W. G Sampling Techniques s (3rd ed.). John Wiley & Sons. 1977

Cook, T. D., & Reichardt, C. S Qualitative and quantitative methods in evaluation research (1998).

Mohan, B. A Qualitative research methods in second language assessment 2012)In L. V. Hedges, R. Coe, & M. Waring (Eds.)

Mohan, B. A. (2012). Qualitative research methods in second language assessment. In L. V. Hedges, R. Coe, & M. Waring (Eds.)

Trochim, W. M. K., & Donnelly, J. P. The Research Methods Knowledge Base. (2008).3rd ed. Cengage Learning

Additional

Bachman, L. F. Interfaces between second language acquisition and language testing research. (1998).Cambridge: Cambridge University Press.

Fink, A. How to Conduct Surveys: A Step-by-Step Guide (2017)SAGE Publications.

Tashakkori, A., & Teddlie, C. (Eds.) SAGE Handbook of Mixed Methods in Social & Behavioral Research (2010).

(2nd ed.). SAGE Publications.