



## IDENTIFYING DATA

### Research and Innovation in Secondary Education

Subject	Research and Innovation in Secondary Education			
Code	V02M066V01205			
Study programme	University Master's degree in training of Secondary Education, Bachelor's degree, Vocational Training and Language Teaching. Speciality: Experimental Sciences. Biology, Geology, Physics and Chemistry			
Descriptors	ECTS Credits 3	Choose Mandatory	Year 1st	Quadmester 1st
Teaching language				
Department				
Coordinator	Membiela Iglesia, Pedro			
Lecturers	Membiela Iglesia, Pedro			
E-mail	membiela@uvigo.es			
Web				
General description	(*)Formación inicial en investigación e innovación na Educación Secundaria para futuros profesores de bioloxía, xeoloxía, física e química de Educación Secundaria Obrigatoria, Bacharelato, Formación Profesional e Ensino de Idiomas			

## Competencies

Code	
C1	(*)Coñecer as características dos estudantes, os seus contextos sociais e motivacións.
C24	(*)Coñecer e aplicar propostas docentes innovadoras no ámbito da especialización cursada.
C27	(*)Coñecer e aplicar metodoloxías e técnicas básicas de investigación e avaliación educativas e ser capaz de deseñar e desenvolver proxectos de investigación, innovación e avaliación.
C31	(*)Participar nas propostas de mellora nos distintos ámbitos de actuación a partir da reflexión sobre a práctica.

## Learning outcomes

Expected results from this subject	Training and Learning Results
(*)	C1 C24 C27 C31
(*)	C24 C27

## Contents

Topic	
Types of design of investigation.	Types of design of investigation.

Methodologies and basic techniques of investigation and educational evaluation.	Methodologies and basic techniques of investigation and educational evaluation.
Possibilities of the new technologies in the educational investigation.	Possibilities of the new technologies in the educational investigation.
Strategies of innovation in the education of the sciences.	Strategies of innovation in the education of the sciences.

## Planning

	Class hours	Hours outside the classroom	Total hours
Seminars	5	20	25
Mentored work	5	35	40
Mentored work	5	5	10

\*The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

## Methodologies

	Description
Seminars	Glimpsed that the student keeps with the teaching staff of the subject for *asesoramento/development of activities of the subject and of the process of learning.
Mentored work	The student, of individual way or in group, elaborates a document envelope to thematic of the subject or prepares seminars, investigations, memories, essays, summaries of readings, conferences, etc. Generally it treats of an autonomous activity of the/*s student/*s that includes the research and collected of information, reading and handle of bibliography, editorial...
Mentored work	The student develops exercises or projects in the low classroom the guidelines and supervision of the professor. It can be linked his developments with autonomous activities of the student.

## Personalized assistance

### Methodologies Description

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## Assessment

	Description	Qualification	Training and Learning Results
Seminars	11.-Works and projects The student presents the result obtained in the manufacture of one document envelope to thematic of the subject, in the preparation of seminars, investigations, memories, essays, summaries of readings, conferences, etc. Can be carried out of individual way or in group, of oral form or writing 12.- Folder/dossier Document elaborated pole student that recompiles information envelope the experiences, projects, tasks and works realized during it process of training.	40	C1 C24 C27 C31
Mentored work	11.-Works and projects The student presents the result obtained in the manufacture of one document envelope to thematic of the subject, in the preparation of seminars, investigations, memories, essays, summaries of readings, conferences, etc. Can be carried out of individual way or in group, of oral form or writing 12.- Folder/dossier Document elaborated pole student that recompiles information envelope the experiences, projects, tasks and works realized during it process of training.	40	C1 C24 C27 C31
Mentored work	12.- Folder/dossier Document elaborated pole student that recompiles information envelope the experiences, projects, tasks and works realized during it process of training.	20	C1 C24 C27 C31

## Other comments on the Evaluation

## Sources of information

## Basic Bibliography

Bell, J, **Como hacer tu primer trabajo de investigación**, Gedisa, 2005

Blaxter, Lorraine / Hughes, Christina / Tight, Malcolm, **Cómo se hace una investigación**, Gedisa, 2001

## Complementary Bibliography

## Recommendations

## Contingency plan

### Description

=== EXCEPTIONAL PLANNING ===

Given the uncertain and unpredictable evolution of the health alert caused by COVID-19, the University of Vigo establishes an extraordinary planning that will be activated when the administrations and the institution itself determine it, considering safety, health and responsibility criteria both in distance and blended learning. These already planned measures guarantee, at the required time, the development of teaching in a more agile and effective way, as it is known in advance (or well in advance) by the students and teachers through the standardized tool.

=== ADAPTATION OF THE METHODOLOGIES ===

THEY REMAIN THE SAME

\* Teaching methodologies maintained

\* Teaching methodologies modified

\* Non-attendance mechanisms for student attention (tutoring)

\* Modifications (if applicable) of the contents

\* Additional bibliography to facilitate self-learning

\* Other modifications

=== ADAPTATION OF THE TESTS ===

THEY REMAIN THE SAME

\* Tests already carried out

Test XX: [Previous Weight 00%] [Proposed Weight 00%]

...

\* Pending tests that are maintained

Test XX: [Previous Weight 00%] [Proposed Weight 00%]

...

\* Tests that are modified

[Previous test] => [New test]

\* New tests

\* Additional Information