IDENTIFYING DATA

Research and Innovation in Secondary Education

Subject	Research and Innovation in Secondary Education
Code	O02M066V02205
Study programme	(*)Máster Universitario en Profesorado en Educación Secundaria Obrigatoria, Bacharelato, Formación Profesional e Ensino de Idiomas. Especialidade (Ourense): Ciencias Experimentais. Matemáticas e Tecnoloxía

Descriptors	ECTS Credits		Choose	Year	Quadmester
	3		Mandatory	1st	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 pofesores de matemática e tecnoloxía 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
(*)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.	C24 C27

Contents

Topic

Methodologies and basic techniques of investigation and educational evaluation.	Methodologies and basic techniques of investigation and educational evaluation.
Types of design of investigation.	Types of design of investigation.
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
Mentored work	
Seminars	
Mentored work	

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

They Will be able to recover the no purchased competitions in the announcement of final
of *cuadrimestre or in the correspondent to the month of July, keeping them the note of the
proofs/activities already surpassed. The students that can not assist the kind
will have activities and alternative proofs.

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 ===
IT 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