



IDENTIFYING DATA

Final Year Dissertation

Subject	Final Year Dissertation			
Code	V10G061V01991			
Study programme	Grado en Ciencias del Mar			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	12	Mandatory	4th	2nd
Teaching language	#EnglishFriendly Spanish Galician English			
Department				
Coordinator	Francés Pedraz, Guillermo			
Lecturers	Francés Pedraz, Guillermo			
E-mail	gfrances@uvigo.gal			
Web	http://webs.uvigo.es/facultadeccdomar/index.php/es/trabajo-fin-de-grado			
General description	<p>The final degree project is a matter inside the plan of studies of the Degree of Marine Sciences. It is a personal work that each student will prepare in an autonomous form under the tutor's supervision and has to allow him to show of form integrated the acquisition of formative contents and the competitions associated with the title of Marine Sciences.</p> <p>English Friendly subject: International students may request from the teachers: a) resources and bibliographic references in English, b) tutoring sessions in English, c) exams and assessments in English.</p>			

Training and Learning Results

Code	
A1	Students have demonstrated knowledge and understanding in a field of study that builds upon their general secondary education, and is typically at a level that, whilst supported by advanced textbooks, includes some aspects that will be informed by knowledge of the forefront of their field of study
A2	Students can apply their knowledge and understanding in a manner that indicates a professional approach to their work or vocation, and have competences typically demonstrated through devising and sustaining arguments and solving problems within their field of study
A3	Students have the ability to gather and interpret relevant data (usually within their field of study) to inform judgments that include reflection on relevant social, scientific or ethical issues
A4	Students can communicate information, ideas, problems and solutions to both specialist and non-specialist audiences
A5	Students have developed those learning skills that are necessary for them to continue to undertake further study with a high degree of autonomy
B1	Know and use vocabulary, concepts, principles and theories related to oceanography and apply everything learned in a professional and/or research environment.
B2	Plan and execute surveys in the field and laboratory work, applying basic tools and techniques for sampling, data acquisition and analysis in the water column, sea bottom and marine substratum.
B3	Recognize and implement good practices in measurement and experimentation, and work responsibly and safely both in field surveys and in the laboratory.
B4	Manage, process and interpret the data and information obtained both in the field and in the laboratory.
B5	Develop, implement and write basic or applied projects in oceanography from a multidisciplinary perspective.
C1	know at a general level the fundamental principles of sciences: Mathematics, Physics, Chemistry, Biology and Geology.
C2	Acquire basic knowledge of mathematics (differential and integral calculation) and statistics.
C3	Describe how works the global ocean circulation, its forcings and its climate implications.
C4	Know, analyze and interpret the physical properties of the ocean according to current theories, as well as to know the most relevant sampling tools and techniques.
C5	Formulate the mass, energy and moment conservation equations for geophysical fluids and solve them in basic oceanic processes.
C6	Acquire the fundamentals and terminology of chemical processes.
C7	Apply to the marine and coastal environment the principles and methods used in Chemistry.

- C8 Know the main pollutants, their causes and effects in the marine and coastal environment.
- C9 Acquire basic knowledge about the structural and functional organization and the evolution of marine organisms.
- C10 Know the biological diversity and functioning of marine ecosystems.
- C11 Apply the knowledge and techniques acquired to the characterization and sustainable use of living resources and marine ecosystems.
- C12 Acquire knowledge about processes and products related to internal and external geological cycles.
- C13 Acquire the basic sedimentological, geochemical and geophysical techniques and methodologies used in identification, use and sustainability of the natural resources of coastal and marine environments.
- C14 Know basic concepts and events of global change obtained from geological records.
- D1 Develop the search, analysis and synthesis of information skills oriented to the identification and resolution of problems.
- D2 Acquire the ability to learn autonomously, continuously and collaboratively, organizing and planning tasks over time.
- D3 Understanding the meaning and application of the gender perspective in different fields of knowledge and in professional practice with the aim of achieving a more just and equal society.
- D4 Ability to communicate orally and in writing in Galician language.
- D5 Sustainability and environmental commitment. Equitable, responsible and efficient use of resources.

Expected results from this subject

Expected results from this subject	Training and Learning Results			
Application of the knowledge acquired throughout the Degree.	A1	B1	C1	D1
	A2	B2		D2
	A3	B3		D5
	A4	B4		
	A5	B5		
Application of the principles of the scientific method in work practices.	A1	B1	C1	D1
	A2	B2		D2
	A3	B3		D3
	A4	B4		D4
	A5	B5		D5
Use of information technologies to carry out bibliographic searches on a work topic.	A1	B1	C1	D1
	A2	B2	C2	D2
	A3	B3	C3	D3
	A4	B4	C4	D4
	A5	B5	C5	D5
			C6	
			C7	
			C8	
			C9	
			C10	
			C11	
			C12	
			C13	
			C14	
Work planning adapting to previously stipulated conditions and deadlines.	A2	B2		D1
	A5	B5		D2
To work autonomously following procedures described in the bibliography or previously agreed with the supervisor.	A5	B2		D1
		B3		D2
		B4		D3
		B5		D5
Interpretation of the results achieved.	A1	B1		D1
	A2	B2		D2
	A3	B3		
	A4	B4		
	A5	B5		
To write a report about the work carried out and following the indicated guidelines.	A1	B1	C1	D1
	A2	B2		D2
	A3	B3		D3
	A4	B4		D4
	A5	B5		D5
Oral dissertation about the obtained results.	A1	B1		D1
	A2	B2		D2
	A3	B3		D3
	A4	B4		D4
	A5	B5		D5

Contents

Topic

Given its special nature, the subject does not have its own content, it will depend on the subject assigned to the student, who may choose any of the lines contained in the Faculty's TFG offer.

It has to have in consideration the rules of final degree projects of the Faculty, published in the web page, whereby assign the different kind of projects and the respective supervisors.

The works can be done and defended in Spanish, Galician and English. Both the language of performance and the language of presentation will be recorded in the individual record of each student.

The following aspects will be considered:

- The structure of the TFG
- The writing of the TFG
- Inclusion of citations and how to cite
- The defense of the TFG
- Preparation of the presentation
- Formalization of the defense document

Planning

	Class hours	Hours outside the classroom	Total hours
Presentation	1	10	11
Lecturing	2	2	4
Mentored work	0	282	282
Learning-Service	0	0	0
Essay	2	1	3

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

Methodologies

	Description
Presentation	The TFG must be defended in front of a tribunal formed by three professors of the degree, in the terms established in the regulations of the Faculty. http://mar.uvigo.es/index.php/es/alumnado-actual/trabajo-fin-de-grado
Lecturing	Two hours of class are reserved, where the coordinator of the subject of Final Degree Work will present the keys for the elaboration and defense of the TFG.
Mentored work	As a final result, a report adjusted to the conditions established in the regulations of the Faculty will be presented. http://mar.uvigo.es/index.php/es/alumnado-actual/trabajo-fin-de-grado
Learning-Service	Developing the TFG following the Learning-Service methodology is possible if tutors provide this possibility. In this case, the dedication is 8 contact hours and 282 hours of personal work. This methodology replaces the classic tutored work.

Personalized assistance

Methodologies	Description
Mentored work	It will correspond to the tutor assigned for each final degree project supervise the student in the development of the work chosen. Students must attend personal tutorials to solve doubts and/or uncertainties, which will mainly take place during the timetables indicated. To better optimize the procedure, the student is requested to previously contact his/her teacher with reasonable anticipation
Lecturing	The professor coordinator of the subject will be the responsible of the master sessions, in which will be able to give some advice to the students in reference to the structure, editorial, inclusion of references and how to obtain the final document for the defence in the special software application for this subject. Students willing so could attend personal tutorials to solve doubts and/or uncertainties, which will mainly take place during the timetables indicated. To better optimize the procedure, the student is requested to previously contact his/her teacher with reasonable anticipation.
Learning-Service	It will correspond to the tutor assigned for each final degree project supervise the student in the development of the work chosen. Students must attend personal tutorials to solve doubts and/or uncertainties, which will mainly take place during the timetables indicated. To better optimize the procedure, the student is requested to previously contact his/her teacher with reasonable anticipation

Assessment

Description	Qualification	Training and Learning Results
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Essay	Evaluation by part of the tutor of the competitions developed by the student in the work and in the editorial of the final memory. Value: 30%	100	A1	B1	C1	D1
	Evaluation of the written memory and oral presentation by the tribunal. Value: 70%		A2	B2		D2
			A3	B3		D3
			A4	B4		D4
			A5	B5		D5

In the rule of final degree project of the Faculty you can find in detail all the procedure that has to adopt the student and his tutor, both for the written part and for the evaluation.

Other comments on the Evaluation

The final degree project is governed by the rule approved in the Marine Science Faculty, which is published in the web page of the centre (<http://mar.uvigo.es/alumnado/trabajo-fin-de-grado/>).

The Academic Commission of the final degree project, prior to the start of the work, will make public the criteria of evaluation that will use so much the tutor to issue his report like the court to evaluate the memory of the work and his defence.

They will make public in the web page all the terms that reach the presentation of the memories, the defences and the presentation of the reports by the tutors. These terms will be approved by the Academic Commission of the final degree project. In case that the student surpass the evaluation of the Tutor and do not surpass the court of evaluation will issue a justificative report. Once attended the recommendations of the report, said student will be able to go back to present the final degree project in the following period of evaluation.

Students are strongly requested to fulfil a honest and responsible behaviour. It is considered completely unacceptable any alteration or fraud (i.e., copy or plagiarism) contributing to modify the level of knowledge and abilities acquired in exams, evaluations, reports or any kind of teacher's proposed work. Fraudulent behaviour may cause failing the course for a whole academic year. An internal dossier of these activities will be built and, when reoffending, the university rectorate will be asked to open a disciplinary record

Sources of information

Basic Bibliography

Complementary Bibliography

Recommendations

Other comments

As in all subjects, personal effort is essential, as well as attending to the instructions of the tutor and delivering the report in the deanery within the deadlines set by the Academic Committee of TFG.

It is recommended to read carefully the regulations related to the elaboration and defense of TFG of the Center and all the related documentation that can be found in

<http://mar.uvigo.es/index.php/es/alumnado-actual/trabajo-fin-de-grado>