



## IDENTIFYING DATA

### Marine and coastal management

Subject	Marine and coastal management			
Code	V10G060V01704			
Study programme	(*)Grao en Ciencias do Mar			
Descriptors	ECTS Credits	Choose	Year	Quadmester
	6	Mandatory	4th	1st
Teaching language	Spanish Galician			
Department				
Coordinator	Méndez Martínez, Gonzalo Benito			
Lecturers	Alejo Flores, Irene Méndez Martínez, Gonzalo Benito Pérez Arlucea, Marta María Santos López, Artai Antón			
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Web	<a href="http://www.researchgate.net/profile/Marta_Perez-Arlucea">http://www.researchgate.net/profile/Marta_Perez-Arlucea</a>			
General description	In this matter presents a multidisciplinary vision of the coastal and marine zone, identifying the conflicts and risks associated to these areas. They enter the main tools for the management of these two environments as well as the administrative context-legislative in that it is framed the coastal and marine management.			

## Competencies

Code	
C1	To know the vocabulary, codes and concepts inherent to the oceanographic scientific field
C3	Critical understanding of the history and current status of the Marine Sciences
C6	Ability to identify and understand the problems in the field of oceanography
C8	To understanding the fundamentals of the laws that regulate the use of the marine environment and its resources
C9	To be familiar with the public and private, national and international organizations and institutions related to the Marine Sciences
C10	To know the problems and the basic principles of sustainability in relation to the use and exploitation of the marine environment
C11	To manage the use of littoral and coastal region and their resources in a sustainable way
C14	To recognize and analyze new problems and to propose problem-solving strategies
C21	To manage marine and coastal protected areas
C26	To plan, direct and write technical reports on marine issues
C30	Identify and assess environmental impacts in the marine environment
C37	Technical advice or assistance on issues related to the marine and coastal environment
D1	Analysis and synthesis ability
D2	Organization and planning skills
D17	Sensitivity towards environmental issues

## Learning outcomes

Expected results from this subject	Training and Learning Results	
Critical understanding of the history and current state of the management of the coastal and marine zones	C3	D1
Knowledge and critical assessment of the sources of information for coastal and sea planning and management	C1	
Elaborate thematic maps	C11	D1
Capacity to understand the application of the corresponding sectorial legislations	C6 C8 C9 C10	D2

To know and evaluate the legal uses of the coastal and marine areas	C10 C11 C14	D1 D2
To understand the sustainable use of the resources	C21 C26	D2 D17
To evaluate the environmental impacts in the coastal and marine zones	C30 C37	D17

## Contents

Topic	
1. Processes and state of the coastal environments	1.1. Processes and state of the coastal environments
2. Management of the coastal space	2.1. Criteria of management 2.2. Experiences
3. Tools and Technics for the planning and management of the sea	3.1. Methodologies 3.2. Technics
4. Intervention instruments in the coast and marine areas	4.1. The Law of the Coast 4.2. Urbanistic Legislation applicable to the protection of the seaboard 4.3. Protection of natural areas, elements and species of interest 4.4. Use and conservation of the coastal spaces for turistic uses. 4.5. Management of port spaces 4.6. The management of the installations and spaces for the aquaculture
5. Evaluations of impact	5.1. Basic concepts 5.2. Evaluation of projects 5.3. Evaluation of plans and programs
6. Jurisdictional Waters and territorial sea	6.1. Basic concepts and international norms 6.2. Methodologies 6.3. The Spanish rule 6.4. Examples of application
7. Impact of the global change in the half marine and coastal	7.1. General problems 7.2. Models of prediction and mitigation measures.

## Planning

	Class hours	Hours outside the classroom	Total hours
Lecturing	23	46	69
Seminars	14	30	44
Studies excursion	8	11	19
Practices through ICT	7	9	16
Problem and/or exercise solving	2	0	2

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

## Methodologies

	Description
Lecturing	Theoretical contents. Concepts, etc.
Seminars	7 Seminars on subjects related with the Theory: preparation of bibliographic works and exhibition
Studies excursion	Field trip to Lanzada Beach for the observation of natural environments and human modifications, impacts, etc.
Practices through ICT	P1-Legal territorial boundaries P2-Evaluation of environmental impact

## Personalized assistance

Methodologies	Description
Seminars	7 seminars of 2 hours in which the lecturer will enter a subject and the students will work on a questionnaire. All the questions will be solved in the seminars. There will be personal tutorials for the preparation of the oral and written presentations in previously scheduled sessions.
Lecturing	23 classes of 1 hour. Students will have access to tutorials, mainly in the indicated schedules. It is advisable that the student contact the lecturer by e-mail.
Practices through ICT	1 sessions of 4 hours, in the computer room. They will approach different subjects applied of coastal management, where the students will have to solve problems posed during the practice. The doubts and questions will be addressed during the practice.
Studies excursion	Field trip to Lanzada Beach. The students will have the oportunity to ask any scientific questions along the day to complete their field memory.

Assessment				
	Description	Qualification	Training and Learning Results	
Lecturing	The evaluation will consist of a written exam.  To be approved, the student need to obtain a minimum of 4.5 points on the condition that the global average reaches 5 points.	45	C3 C6 C8 C9 C10 C11 C14 C21 C26 C30 C37	D1 D2 D17
Seminars	Assistance is compulsory.  To be approved, the student need to obtain a minimum of 4.5 points on the condition that the global average reaches 5 points.	30	C3 C6 C8 C14 C30	D1 D2 D17
Studies excursion	Delivery of a memory of field/questionnaire	5		
Practices through ICT	Assistance is compulsory.  To pass the proofs, the students will need to obtain a minimum of 4.5 points on the condition that the global average reaches 5 points.  The students will present the required tests, memoires, etc. the same day at the end of the practice.	20	C6 C8 C10 C11 C14 C21 C26 C30	D1 D17

#### Other comments on the Evaluation

Date, time and place of exams will be published in the official web of Marine Sciences  
Faculty: <http://mar.uvigo.es/index.php/en/alumnado-actual-2/examenes-3>

The students are required a responsible and honest behaviour. Any form of fraud (i.e. copies and/or plagiarism) directed to alter the level of knowledge or skill reached by the student/to in any type of proof, report or work designed with this purpose is consider inadmissible. The fraudulent behaviours will suppose the suspension of the subject during a complete course. An internal file containing these irregular behaviors will be started, and subsequently the lecturer would be able to request the opening of a disciplinary file in the rectorship.

#### Sources of information

##### Basic Bibliography

Barragán Muñoz, J.M., **Las áreas litorales de España. Del análisis geográfico a la gestión integrada**, Ed. Ariel,  
Doménech, J.L., Sardá, R., Carballo, A., Villasante, C.S., Barragán, J.M., Borja, A., Rodríguez, M.J, **Gestión integrada de zonas costeras**, AENOR ediciones,  
Masselink, G. y Gehrels, R., **Coastal environments and global change**, Wiley,  
Gómez Orea, D. y Gómez Vilarino, A., **Evaluación de impacto ambiental**, MP,

##### Complementary Bibliography

Barragán Muñoz, J.M., **Coastal management and public policy in Spain**, Ocean and Coastal Management,  
Comisión Europea, **Programa de demostración de la UE sobre la Gestión Integrada de las Zonas Costeras 1997-1999. Hacia una estrategia europea para la gestión integrada de las zonas costeras. Principios generales y opcio**, Luxemburgo, Oficina de Publicaciones Oficiales de las Comunidades Europeas,  
Prada, A., Vázquez-Rodríguez, M.X., Soliño-Millán, M., **Desarrollo sostenible en la costa gallega**, CIEF, Centro de Investigación Económica y Financiera, Fundación Novacaixagalicia,  
Barragán Muñoz, J.M., **Política, Gestión y Litoral: Una nueva visión de la Gestión Integrada de Áreas Litorales**, Tébar Flores,  
Barragán Muñoz, J.M., **Medio Ambiente y desarrollo en áreas litorales**, Servicio de publicaciones de la U. Cádiz. ,  
Gómez Orea, D., **Evaluación ambiental estratégica**, Mundiprensa,  
Prada, A., Vázquez-Rodríguez, M.X., Soliño-Millán, M, **Desarrollo sostenible en la costa gallega**, CIEF, Centro de Investigación Económica y Financiera, Fundación Novacaixagalicia,

#### Recommendations

##### Subjects that continue the syllabus

### **Subjects that are recommended to be taken simultaneously**

Applied marine geology/V10G060V01909

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### **Subjects that it is recommended to have taken before**

Economics and legislation/V10G060V01903

Geological oceanography I/V10G060V01504

Geological oceanography II/V10G060V01603

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## **Contingency plan**

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### **Description**

=== EXCEPTIONAL MEASURES SCHEDULED ===

In front of its uncertain and unpredictable evolution of the sanitary alert caused by the COVID-19, the University establishes joint extraordinary planning that will actuate in the moment in that the administrations and the @propio institution determine it attending to criteria of security, health and responsibility, and guaranteeing the \*docencia in a @escenario no \*presencial or no totally \*presencial. These already scheduled measures guarantee, in the moment that was prescriptive, the development of the \*docencia of a way but \*áxil and effective when being known beforehand (or with a wide advance) pole students and the teaching staff through the tool normalized and institutionalized of the teaching guides DOCNE\*T.

=== ADAPTATION OF THE METHODOLOGIES ===

\* teaching Methodologies that keep

-Lessons \*maxistrais through the virtual classroom

\* teaching Methodologies that modify

-Exits of field

--Option 1: Route coastal pole person from Vigo to \*pe.

--Option 2: Analysis and evaluation of coastal spaces by means of aerial images, cartography and technologies of analysis of the territorial information.

-Practical kinds of laboratory: they will be substituted by activities related with the practical \*presenciais, but based in the employment of programs \*informáticos.

-Seminars: they will develop employing the virtual classrooms stop the theoretical explanations and using questionnaires and exercises in FAITI\*C stop the development of the \*actividades practical associated (in way \*síncrono or \*asíncrono).

\* Mechanism no \*presencial of attention to the students (\*titorías)

-The \*titorías will realize in the virtual dispatch of the professors of the subject.

\* Modifications ( proceed) of the contained to impart

\* additional Bibliography to facilitate to car-learning

\* Other modifications

=== ADAPTATION OF THE EVALUATION ===

\* Proofs that modify

[previous Proof] => [new Proof]

Practical of laboratory => practical Exercises in FAITI\*C

Exits of field => alternative Exits / virtual activities

practical theoretical Examination => theoretical Examination @práctico by telematic road or realization of works

Examination \*glogal \*presencial => global Examination by New telematic

\* road proofs

\* additional Information

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