



## Teaching Guide

Teaching Guide				
Identifying Data				2020/21
Subject (*)	Maritime accidents Investigation		Code	631G01512
Study programme	Grao en Náutica e Transporte Marítimo			
Descriptors				
Cycle	Period	Year	Type	Credits
Graduate	1st four-month period	Fourth	Optional	6
Language	Spanish			
Teaching method	Non-attendance			
Prerequisites				
Department	Ciencias da Navegación e Enxeñaría Mariña			
Coordinador	Pacheco Martínez, Eliseo Antonio	E-mail	eliseo.pacheco@udc.es	
Lecturers	Pacheco Martínez, Eliseo Antonio	E-mail	eliseo.pacheco@udc.es	
Web				
General description	The objective of this subject is to provide basic knowledge in the process of investigating accidents and maritime incidents, and to serve as an introductory scientific tool that allows professional activity to be oriented towards the technical study of accidents at sea.			
Contingency plan	<div>1. Modifications to the contents</div> <div>No changes will be made.</div> <div>2. Methodologies</div> <div>*Teaching methodologies that are maintained</div> <div>Guest lecture / keynote speech</div> <div>Supervised projects</div> <div>Mixed objective/subjective test</div> <div>Case study</div> <div>*Teaching methodologies that are modified</div> <div>No changes will be made.</div> <div>3. Mechanisms for personalized attention to students</div> <div>Teams.</div> <div>Synchronous tutoring is open at any time, with the limit of the teacher's availability. An attempt will be made to coordinate the tutoring time with the student.</div> <div>E-mail.</div> <div>The teacher agrees to respond as soon as possible to all questions sent asynchronously.</div> <div>4. Modifications in the evaluation</div> <div>No changes will be made.</div> <div>*Evaluation observations:</div> <div>5. Modifications to the bibliography or webgraphy</div> <div>No changes will be made.</div>			

## Study programme competences

Code	Study programme competences
A10	Redactar e interpretar documentación técnica e publicacións náuticas.
A40	Capacidade para identificar danos y defectos en la estructura del buque.
A41	Capacidade para identificar evidencias ante casos de accidentes y siniestros marítimos.
A42	Capacidade para recabar información objetiva en las entrevistas personales.
A44	Capacidade para redactar informes técnicos.



B2	Resolver problemas de xeito efectivo.
B3	Aplicar un pensamento crítico, lóxico e creativo.
B9	Capacidade para interpretar, seleccionar e valorar conceptos adquiridos noutras disciplinas do ámbito marítimo, mediante fundamentos físico-matemáticos.
B13	Comunicar por escrito e oralmente os coñecementos procedentes da linguaxe científica.
B14	Capacidade de análise e síntese.
B20	Desenvolverse para o exercicio dunha cidadanía aberta, culta, crítica, comprometida, democrática e solidaria, capaz de analizar a realidade, diagnosticar problemas, formular e implantar solucións baseadas no coñecemento e orientadas ao ben común.
B24	Valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade.
C4	Desenvolverse para o exercicio dunha cidadanía aberta, culta, crítica, comprometida, democrática e solidaria, capaz de analizar a realidade, diagnosticar problemas, formular e implantar solucións baseadas no coñecemento e orientadas ao ben común.
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C11	Que os estudantes sexan capaces de integrar coñecementos e enfrontarse á complexidade de formular xuízos a partires dunha información que, sendo incompleta ou limitada, inclúa reflexións sobre as responsabilidades sociais e éticas vencelladas á aplicación dos seus coñecementos e xuízos
C12	Que os estudantes saiban comunicar as suas conclusións e os coñecementos e razóns últimas que as sustentan a públicos especializados e non especializados dun xeito claro e sin ambigüidades

Learning outcomes			
Learning outcomes		Study programme competences	
Knowledge of national and international regulations applicable to maritime transport.		A10	B2 C4
Application of national and international regulations in the investigation of claims and maritime events.		A40	B3 C6
Ability to identify damage to the structure of the ship.		A41	B9 C11
Collection of evidence, personal interviews.		A42	B13 C12
Write reports and compile statistics.		A44	B14 B20 B24

Contents	
Topic	Sub-topic
1. Need to investigate accidents.	Difference with Judicial, Police or Expert Investigations. Other regulatory investigations.
2. Regulations related to the Investigation of Claims and Maritime Events.	International regulations. European regulations. Spanish regulations.
3. A.849 (20). Code for the Investigation of Marine Casualties and Incidents.	Structure of the Code. Definitions. Most important aspects.
4. National Organizations in charge of Investigations.	Most important organisms. International Forum of Marine Accident Investigators (MAIIF). Commission of Investigation of Accidents and Maritime Incidents (CIAIM). Spain.



5. Methodologies for conducting the Research.	A.1075 (28): Guidelines to assist investigators in the implementation of the Casualty Investigation Code. MAIIF Investigation Manual. MAIIF Investigators ?In-the-field Job Aid MAIIF Fire Investigation Manual. Other methodologies.
6. Writing the Report.	Phases in writing. Items to cover. Terminology. A.918 (22). SMCP
7. IMO Reporting.	GISIS.
8. Statistics.	Examples of statistical databases.
9. Research Examples.	Comments on Investigation Reports.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A10 B3 B9 B14 B20 B24 C6	20	40	60
Supervised projects	A10 A40 A41 A42 A44 B2 B3 B9 B13 B14 B20 B24 C4	10	30	40
Mixed objective/subjective test	B2 B9 B13 C12	4	0	4
Case study	A44 C11	10	28	38
Personalized attention		8	0	8

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

Methodologies	
Methodologies	Description
Guest lecture / keynote speech	Oral presentation (using audiovisual material and student interaction) designed to transmit knowledge and encourage learning. Presentations of this type are variously referred to as ?expository method?, ?guest lectures? or ?keynote speeches?. (The term ?keynote? refers only to a type of speech delivered on special occasions, for which the lecture sets the tone or establishes the underlying theme; it is characterised by its distinctive content, structure and purpose, and relies almost exclusively on the spoken word to communicate its ideas.)
Supervised projects	Supervised learning process aimed at helping students to work independently in a range of contexts (academic and professional). Focused primarily on learning ?how to do things? and on encouraging students to become responsible for their own learning.
Mixed objective/subjective test	Mixed test consisting of essay-type and objective test questions. Essay section consists of open (extended answer) questions; objective test may contain multiple-choice, ordering and sequencing, short answer, binary, completion and/or multiple-matching questions.
Case study	Teaching-learning method in which students are presented with a specific set of real-life circumstances and a problem (?case?) which they must attempt to understand, assess and solve as a group through a process of discussion. Students should be able to analyse a series of facts relating to a particular area of knowledge or activity, and arrive at a rational conclusion via a process of discussion within small work groups.

Personalized attention	
Methodologies	Description



Supervised projects	Face-to-face.
Mixed	During tutoring hours, and with prior sanitary authorization.
objective/subjective	
test	Teams.
Case study	Synchronous tutoring is open at any time, with the limit of the teacher's availability. An attempt will be made to coordinate the tutoring time with the student.
Guest lecture /	
keynote speech	E-mail.
	The teacher agrees to respond as soon as possible to all questions sent asynchronously.
	As for the "Student with recognition of part-time dedication and academic waiver of attendance exemption" the teacher will make available the bibliography of the subject and the possibility of online tutoring.
	Teacher and alumnx will coordinate this assistance.

Assessment			
Methodologies	Competencies	Description	Qualification
Supervised projects	A10 A40 A41 A42 A44 B2 B3 B9 B13 B14 B20 B24 C4	Un exemplo de traballo tutelado pode ser a realización dunha investigación propia dun sinistro marítimo.	50
Mixed objective/subjective test	B2 B9 B13 C12	Para optar a Avaliación Continua haberá que xustificar un mínimo do 80%de asistencia.	40
Case study	A44 C11	Un exemplo de estudo de caso pode ser o comentario a un informe oficial de investigación.	10

Assessment comments
The evaluation criteria contemplated in Table A-II / 1 of the STCW Code, and included in the Quality Assurance System, will be taken into account when designing and carrying out the evaluation.

Sources of information	
Basic	A.1075(28). Guidelines to Assist Investigators in the Implementation of the Casualty Investigation Code.MAIF Investigation Manual.MAIF Investigators "In-the-field Job Aid".MAIF Fire Investigation Manual.A.1075(28). Guidelines to Assist Investigators in the Implementation of the Casualty Investigation Code.MAIF Investigation Manual.MAIF Investigators "In-the-field Job Aid".MAIF Fire Investigation Manual.
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Maritime Safety /631G01211
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments

(\*)The teaching guide is the document in which the URV publishes the information about all its courses. It is a public document and cannot be modified. Only in exceptional cases can it be revised by the competent agent or duly revised so that it is in line with current legislation.