Teaching Guide					
Identifying Data					2020/21
Subject (*)	Maritime Radiocommunications			Code	631G01307
Study programme	Grao en Náutica e Transporte Marítimo				
Descriptors					
Cycle	Period	Year		Type	Credits
Graduate	2nd four-month period	Third		Optional	6
Language	SpanishGalicianEnglish				
Teaching method	Hybrid				
Prerequisites					
Department	Ciencias da Navegación e Enxeñaría Mariña				
Coordinador	López López, María Natividad		E-mail	natividad.lopezl@udc.es	
Lecturers	López López, María Natividad		E-mail	natividad.lopezl@udc.es	
Web					
General description	To train the students in all aspects related to Maritime Communications with the objective that they achieve the necessary capacity to handle all the equipment following the established procedures.				

Contingency plan	1. Modifications to the contents The practices that could be done in person with added tasks will be counted, with a minimum participation of 80%. Proposed tasks will be carried out in order to make a continuous evaluation An objective test will be done through the moodle tool, the grade will be added to the grade obtained in each task The student who has the title of GMDSS operator will have a 5 subject (being able to obtain more score is done the objective test) 2. Methodologies Teaching methodologies that are maintained Master session: through the teams tool at the time indicated by the center. Supervised work Personalized attention Teaching methodologies that change Practice in simulator: they will be left to be carried out as soon as possible, since the practices carry a specialty certificate. Those that could be carried out together with related tasks indicated by the teacher will be evaluated. 3. Mechanisms for personalised attention to students Email: daily. Used to make queries, request virtual meetings to resolve doubts and follow up on the tasks entrusted. Moodle: Weekly. For access to the subject matter and for the tasks assigned. Teams: in day and hour proposed in school meeting of the master classes, connections proposed to adults for directed discussion of tasks. In addition to all those connections proposed in advance by the students. 4. Modifications in the evaluation METHODOLOGY WEIGHT IN QUALIFICATION DESCRIPTION PRACTICES 20% RATING OF PRACTICES MADE IN THE SIMULATOR TOGETHER WITH A TASK TASKS 30% A SERIES OF CASES TO BE UNWOUND TEST TEST 50% TEST TYPE PROPOSED IN THE MOODLE Evaluation observations: For full-time students, part-time students, requirements to pass the subject, conditions of the evaluation at the 2nd opportunity, etc.) Continuous evaluation: a "pre-final exam" will be done, agreed with the students, for the realization of the @dito test it is essential to deliver the proposed tasks 1st opportunity: continuous evaluation as indicated in section 4 (adding practices+tasks+test) 2nd opportunity: practices that will count 20% (having to deliver a task that is proposed to more than the practices that could be performed in the simulator) and the test that will count the remaining 80%. The) students with full dedication: attendance/participation in the tasks corresponding to the practices minimum 80% B) students with recognition of part-time dedication and academic dispensation from attendance, secondly, establishes the "RULE REGULATING THE DEDICATION REGIME FOR GRADUATE STUDENTS AT THE UDC (arts. 2.3;3. b and 4.5)(29/5/212): assistance/participation in tasks corresponding to the internship minimum 80%. If they are unable to attend the lectures, arrangements will be made with the tutor. 5. Amendments to the bibliography or webgraphy No modifications are made to the bibliography with respect to the teaching guide, only a series of notes will be provided to

the student through moodle in order to overcome the subject.

Study programme competences	
Code	Study programme competences
A10	Redactar e interpretar documentación técnica e publicacións náuticas.
A11	Empregar o inglés, falado e escrito, aplicado á navegación e ao negocio marítimo.
A17	Adoptar as medidas axeitadas en casos de emerxencias.
A18	Responder a sinais de socorro no mar.
A19	Utilizar as frases normalizadas da OMI para as comunicacións marítimas, e emprego do inglés falado e escrito.
A20	Transmitir e recibir información mediante todo tipo de sinais.
A26	Operar os dispositivos de salvamento.
A29	Responder correctamente ás diferentes situacións de emerxencia.
A37	Usar correctamente os diferentes aparatos de navegación e radiocomunicacións.
B1	Aprender a aprender.
B2	Resolver problemas de xeito efectivo.
B3	Aplicar un pensamento crítico, lóxico e creativo.
B4	Comunicarse de xeito efectivo nun ámbito de traballo.
B5	Traballar de forma autónoma con iniciativa.
B6	Traballar de forma colaboradora.
B7	Comportarse con ética e responsabilidade social como cidadán e como profesional.
B11	Capacidade de adaptación a novas situacións.
B12	Uso das novas tecnoloxías TIC, e de Internet como medio de comunicación e como fonte de información.
B18	Dominar a expresión e a comprensión de forma oral e escrita dun idioma estranxeiro.
B19	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.
C3	Utilizar as ferramentas básicas das tecnoloxías da información e as comunicacións (TIC) necesarias para o exercicio da súa profesión e para a aprendizaxe ao longo da súa vida.
C9	Posuír e comprender coñecementos que aporten unha base ou oportunidade de ser originais no desenvolvemento e/ou aplicación de ideas, a miúdo nun contexto de investigación

Learning outcomes			
Learning outcomes	Study programme competences		
1. To transmit and to receive information using the equipment of system GMDSS.	A10 A11 A17 A18 A19 A20 A26 A29 A37	B1 B3 B4 B5 B6 B7 B12 B18 B19	C3 C9
2. To guarantee the service of radio communications in emergency.	A10 A11 A17 A18 A19 A20 A26 A29 A37	B2 B4 B12	C3

3. To use procedures to avoid transmissions involuntary and false alert to mitigate its consequences and effects.	A10 A11 A17 A18 A19 A20 A26 A29 A37	B1 B2 B3 B4 B5 B6 B7 B11 B12 B18 B19	C3 C9
4. To know and to apply to the procedures of radio communications search and rescue.	A10 A11 A17 A18 A19 A20 A26 A29 A37	B1 B2 B3 B4 B11 B12 B18 B19	C3 C9
5. To handle and to work with the new technologies of the information and their application in the systems and equipment used in the communications.	A10 A11 A17 A18 A19 A20 A26 A29 A37	B1 B2 B3 B4 B5 B6 B7 B11 B12 B18 B19	C3 C9
6. To make work the rescue devices	A10 A11 A17 A18 A19 A20 A26 A29 A37	B1 B2 B3 B4 B5 B6 B7 B11 B12 B18 B19	C3 C9

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According to the STCW including the Amendments of Manila of 2010, column 2 (recognitions, understanding and sufficiency) of Picture A-II/1 (Specification of the minimum norms of competition applicable to the commanders of the underway watch in ships of gross registered capacity the same or superior to 500).	Besides the named thing previously: Knowledge of the operation of the radioelectric devices of rescue, satelitarias RLS and RESAR.
he development and overcoming of these contents, along with the corresponding ones to other matters that include the acquisition of specific competitions of the degree, guarantee the knowledge, understanding and sufficiency of the competitions picked up in picture AII/2, of Agreement STCW, related to the level of management of Senior officers of Bridge of Marina Mercante, without limitation of gross registered capacity and Captain of Marina Mercante until a maximum of 3000 GT.	Picture A-II/2 of Agreement STCW. Specification of the minimum norms of competition applicable to the Captains and senior officers of bridge of ships of gross registered capacity the same or superior to 500 GT.

According to the STCW including the Amendments of Manila of 2010, column 2 (recognitions, understanding and sufficiency) of picture A-IV/2.	Besides the stipulated one in the Regulation of Radio communications, knowledge of: 1. radio communications search and rescue, including the procedures of the international Manual of the aeronautical and marine services search and rescue (IAMSAR). 2. average ones to prevent the transmission of false alert of aid and procedures to mitigate the consequences of the alert happiness. 3. systems of notification for ships. 4. radiomédicos services 5. use of the International signal code and the standard Phrases of the OMI for the sea communicationses. 6. English spoken and written to communicate information related to the security of the human life in the sea. Note: This prescription could be more flexible in the case of the title of restricted radio operator.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A10 A11 A17 A18 A19 A20 A26 A29 A37 B1 B2 B3 B4 B5 B6 B7 B11 B12 B18 B19 C3 C9	24	36	60
Objective test	A10 A11 A17 A18 A19 A20 A26 A29 A37 B1 B2 B3 B4 B5 B6 B7 B11 B12 B18 B19 C3 C9	3.5	0	3.5
Laboratory practice	A11 A17 A18 A19 A20 A29 A37 B1 B2 B3 B5 B6 B7 B11 B12 B18 B19 C3 C9	27	40.5	67.5
Introductory activities	A10 A11 A17 A18 A19 A20 A29 A37 B1 B2 B3 B4 B5 B6 B7 B11 B12 B18 B19 C3 C9	1	1	2
Summary	A10 A11 A17 A18 A19 A20 A29 A37 B1 B2 B3 B4 B5 B6 B7 B11 B12 B18 B19 C3 C9	2	0	2
Personalized attention		15	0	15
(*)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	The exhibition of each one of the subjects is formed that conform the program taking like reference basic the Manual of Radio communications recommended. NOTE: With this Methodology, the student acquires the competitions of the degree: A11, A17, A18, A19, A20, A26,A29, C2, C3.
Objective test	The objective test will consist of either concept development questions and short development questions; multiple choice questions or both types of test. Students will be informed in advance of the type of test and the relative score of the different types of questions in each exam. The content of the questions will deal with the subjects taught in class and on which the student will be provided with sufficient material to pass. A series of tasks will have to be carried out in relation to the given subject, whose mark will be added to that of the objective test.
Laboratory practice	The students are divided in reduced groups to realise the obligatory practices in the Simulator of Communications YOU COMPROMISE where they take to end scenes that allow to assimilate of practical way the referring theoretical concepts to matter. NOTE: With this Methodology, the student acquires the competitions of the degree: A11, A17, A18, A19, A20,A26, A29, A37, B2, B4, B11, B12, C2, C3.
Introductory activities	The first class of the academic course will dedicate a series of activities in which will appear the matter to the students and it will be to determine the competitions, I interest and motivations that the pupils for the profit of the objectives own to reach.
Summary	Towards the end of the course one actual class of synthesis of the main contents will be realised. With this resource it is tried to help the pupils to understand of global to matter by means of it review of or studied form, pausing of particular form in those aspects that could give rise to confusion or whose content was not assimilated suitably.

Personalized attention	
Methodologies	**Description**
Guest lecture / keynote speech Laboratory practice	The teacher of the subject will attend any consultation of the students in their tutorial schedule and additionally, in the dates near the objective tests, at any other time that is available in the email, moodle and / or teams.

Assessment			
Methodologies	**Competencies**	**Description**	**Qualification**
Objective test	A10 A11 A17 A18 A19 A20 A26 A29 A37 B1 B2 B3 B4 B5 B6 B7 B11 B12 B18 B19 C3 C9	The student will have the option of passing this part of the course provided that he or she attends 80% of the master classes. Those students who have the GMDSS General Operator's Certificate are considered to have passed the subject with a grade of 5.0. However, any student in this situation can attend the class and take the exams to raise this minimum grade. The objective test will consist of a series of short concept questions, a multiple choice test, or a combination of the two test systems mentioned above, in which case the teacher will set the specific assessment criteria for each of the parties in advance. It will be necessary to carry out different tasks related to the subject, the mark achieved will be added to the mark achieved in the objective test. To pass by course, it will be necessary to obtain an average mark of 5.0	60
Laboratory practice	A11 A17 A18 A19 A20 A29 A37 B1 B2 B3 B5 B6 B7 B11 B12 B18 B19 C3 C9	COMMUNICATIONS SIMULATOR: In order to pass this part of the course, a minimum attendance of 80% of the simulation classes will be required. The qualification of each student will be based on the continuous evaluation of the Teacher in what he will take into account the skill and interest of the student in each of the proposed exercises.	40
Others			

Assessment comments
The contemplated criteria of evaluation in pictures A-II/1, La-II/2, La-III/1 and La-III/2 of Code STCW and its amendments related to this matter will consider at the time of designing and realising their evaluation.This matter includes the contents corresponding to the course of General Operating specialty (132h) established in the Section To II/1 and La-II/2 of the STCW 78/95/10, in accordance with the course model OMI 1,25. For the obtaining of the certificate of General Operating specialty it is necessary the overcoming of this matter.

Sources of information	
Basic	BIBLIOGRAFÍA BÁSICA DA MATERIA - LOUZÁN LAGO, F.; IGLESIAS BANIELA, S. (2009). Manual de Comunicaciones Marítimas.- Admiralty List of Radio Signals, Vol 5 Ed. 2012.- BREHAUT, DENISE (2009). GMDSS A User?s Handbook 4th Ed. Adlard Coles Nautical, London.- IMO (2011). GMDSS Manual, London.- INMARSAT (2011). The SafetyNET Users Handbook, 5th Ed., London.- IMO (2011). International SafetyNet Manual, London.- IMO (2010). Manual on Maritime Safety Information (MSI Manual). London.- LEES, GRAHAM and WILLIAMSON, WILLIE (2009). Handbook for Marine Radio Communications, 5th Ed. L.L.P. London.· IMO (2010). International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual. London.- IMO (2001). GMDSS Handbook on CD-ROM (v. 2.0), IMO.- IMO (2005). NAVTEX Manual, London. - ORGANIZACIÓN MARITIMA INTERNACIONAL. ?SOLAS, Edición refundida, 2001 OMI, Londres 2001.- ITU (2011). Manual para uso de los servicios móvil marítimo y móvil marítimo por satélite, ITU.- WAUGH IAN (2007). The Mariner?s Guide to Marine Communication, 2nd. Ed. The Nautical Institute.· AISM-IALA. ?Manual on Radio Aids to Navigation?, 2nd edition, 1993.
Complementary	

Recommendations
Subjects that it is recommended to have taken before
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.