		Teaching Guide		
	Identifying Data 2023/24			2023/24
Subject (*)	Collision Rules, Signals, Bouyage Systems and ISM Code Code 631G01303			631G01303
Study programme	Grao en Náutica e Transporte Marít	imo		
		Descriptors		
Cycle	Period	Year	Туре	Credits
Graduate	1st four-month period	Third	Obligatory	6
Language	English			
Teaching method	Face-to-face			
Prerequisites				
Department	Ciencias da Navegación e Enxeñar	ía Mariña		
Coordinador	Campa Portela, Rosa Mary de la	E-m	ail rosa.mary.cai	mpa@udc.es
Lecturers	Campa Portela, Rosa Mary de la	E-m	ail rosa.mary.cai	mpa@udc.es
	López López, María Natividad		natividad.lope	ezl@udc.es
Web		'	'	
General description	The student will acquire the skills to	perform a safe navigation	n watchkeeping in relation	to knowledge and use of
	regulations to prevent collisions at s	ea, the different signaling	and IALA systems.Likew	rise, it will acquire the competencies
	for the management of on-board op	erational safety through th	ne knowledge of the ISM	code as well as the management of
	human resources on board.			

	Study programme competences
Code	Study programme competences
A1	Controlar as boas prácticas de seguridade e saúde no traballo.
A11	Empregar o inglés, falado e escrito, aplicado á navegación e ao negocio marítimo.
A15	Realizar unha garda de navegación segura.
A16	Manter a seguridade da navegación utilizando o radar, a ARPA e os modernos sistemas de navegación para facilitar a toma de decisións
A17	Adoptar as medidas axeitadas en casos de emerxencias.
A20	Transmitir e recibir información mediante todo tipo de sinais.
A29	Responder correctamente ás diferentes situacións de emerxencia.
A35	Organizar e dirixir a tripulación aplicando técnicas de liderazgo e de traballo en equipo.
B2	Resolver problemas de xeito efectivo.
B4	Comunicarse de xeito efectivo nun ámbito de traballo.
B6	Traballar de forma colaboradora.
B11	Capacidade de adaptación a novas situacións.
B14	Capacidade de análise e síntese.
B16	Organizar, planificar e resolver problemas.
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.
B22	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
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

Realizar eficazmente las maniobras del buque en navegación. Ser capaz de analizar la información de los aparatos del	A11	B2	C6
puente para una mejor toma de decisiones		B4	C11
		B11	C12
		B14	
		B16	
		B18	
		B19	
		B22	
Conocer el Reglamento internacional para prevenir los abordajes en la mar, el sistema de Balizamiento IALA, el Codigo	A17	B11	C6
internacional de señales y el Codigo ISM.	A29	B14	
	A35	B19	
Evaluar situaciones de peligro, aplicar las reglas de navegación.	A11	B6	C6
		B14	
Mejorar la gestión de la seguridad del buque, elaborar las listas de comprobación del sistema de gestión, elaborar informes de	A1	B2	C6
seguridad, accidentes etc	A17	B4	
	A29		
	A35		
Realizar una guardia de navegación segura.	A15		
Mantener la seguridad de la navegación utilizando el radar, el ARPA y los modernos sistemas de navegación para facilitar la	A16		
toma de decisiones.			
Transmitir y recibir información mediante todo tipo de señales.	A20		

	Contents
Topic	Sub-topic
WATCHKEEPING	Knowledge of the content, application and intent of the International Regulations for
	Preventing Collisions at Sea, 1972, as amended
	Knowledge of the Principles to be observed in keeping a navigational watch
	The use of routeing in accordance with the General Provisions on Ships? Routeing
	The use of information from navigational equipment for maintaining a safe navigational
	watch
	- Knowledge of blind pilotage techniques
	- The use of reporting in accordance with the General Principles for Ship Reporting
	Systems and with VTS procedures
COLREGS I	Part A - General
	Part B - Steering and Sailing
	Section 1 - Conduct of vessels in any condition of visibility (Rules 4-10)
	Section II - Conduct of vessels in sight of one another (Rules 11-18)
	Section III - conduct of vessels in restricted visibility (Rule 19)
	Part C - Lights and Shapes
	Part D - Sound and Light signals
	Part E - Exemptions.
COLREGS II	Annex I - Positioning and technical details of lights and shapes.
	Annex II - Additional signals for fishing vessels fishing in close proximity.
	Annex III - Technical details of sounds signal appliances
	Annex IV - Distress signals, which lists the signals indicating distress and need of
	assistance.

International Code of Signals	Visual signaling
The Morse Code	Ability to use the International Code of Signals - Ability to transmit and receive light
International Flags and Pennants	signals in Morse, SOS distress signals as specified in Annex IV of the International
Single letter signals	Regulations to Prevent Collisions, 1972, as amended, and in Appendix 1 of the
	International Code of Signals, and one-letter visual cues, also specified in the
	International Code of Signals
IALA MARITIME BUOYAGE SYSTEM	Lateral Marks Region A
	Lateral Marks Region B
	Direction of Buoyage
	Cardinal Marks
	Isolated Danger Marks
	Safe Water Marks
	Special Marks
	Chart symbols and abbreviations
INTERNATIONAL SAFETY MANAGEMENT CODE	Unit 1: Introduction to IMO and ILO.
	Unit 2: Safety and security prevention and protection. ISM Code and ISPS Code.
	Unit 3: Ship safety responsibilities.
	Unit 4: ISM Code: definition, structure, safety policy, ship-owner communication,
	captain responsibilities. Master authority and leadership.
	Unit 5: ISM Resources and personnel, human factors- human error. Team work,
	communication, cultural awareness.
	Unit 6: ISM Code: Preventive maintenance
	Unit 7: ISM Code: Procedures (operation, emergency, non-conformities, accident
	report and accident investigation). Work organization.
	Unit 8: ISM Code: Company verification and certification.
The development and overcoming of these contents, together	Table A-II / 2 of the STCW Convention.
with those corresponding to other subjects that include the	
acquisition of specific competencies of the degree, guarantees	Mandatory minimum requirements for certification of masters and chief mates on chief
the knowledge, comprehension and sufficiency of the	on ships of 500 gross tonnage or more.
competencies contained in Table AII / 2, of the STCW	
Convention, related to the level of management of chief mates	
of the Merchant Navy, on ships without gross tonnage	
limitation and Master up to a maximum of 3.000 GT.	

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
Case study	A29 B22	7	7	14
Directed discussion	B2 C12	6	6	12
Objective test	A1 B11	1	1	2
Collaborative learning	A11 A15 A17 A20	8	8	16
	A35 B4 B6 B14 B16			
	B18 B19 C6 C11			
ICT practicals	A16 B2 B19 C6	10	10	20
Guest lecture / keynote speech	A1 A11 A15 A17 A20	40	40	80
	A29 A35 B4 B18			
Personalized attention		6	0	6

Methodologies

Methodologies	Description
Case study	study of situations related to the navigation watchkeeping and the management of human resources
Directed discussion	Accident/incident reports review on class discussion
Objective test	Final exam
Collaborative learning	Use of different collaboratie learning methods in the classroom
ICT practicals	Problem solving and exercises to reaffirm what has been learned in the classroom through the use of various apps.
Guest lecture /	Teachers classes
keynote speech	

Personalized attention		
Methodologies	Description	
Guest lecture /	As per teachers instructions	
keynote speech		
ICT practicals		
Directed discussion		
Case study		
Objective test		

		Assessment	
Methodologies	Competencies	Description	Qualification
Directed discussion	B2 C12	Realization and delivery of at least 80% of the activities in this section in the classroom	5
Case study	A29 B22	Realization and delivery of at least 80% of the activities in this section in the classroom	10
Objective test	A1 B11	Final written exam	80
Collaborative learning	A11 A15 A17 A20 A35 B4 B6 B14 B16 B18 B19 C6 C11	Realization and delivery of at least 80% of the activities in this section in the classroom	5

Assessment comments

The attendance

at least 80% of the classes and delivery of at least 80% of the

activities carried out in the classroom gives the student the right to

take the pre-final exam. Students who do not

attend class and / or do not turn in the corresponding activities must

take the final exam to pass the subject. In this case the final exam will be evaluated out of 100.

The ISM Code topic will have a weighting of 40% of the final grade. It is essential to pass both parts to pass the subject.

Students with part-time enrollment and academic grant of attendance exemption, as established by the "NORMA QUE REGULA EL RÉGIMEN DE DEDICACIÓN AL ESTUDIO DE LOS ESTUDANTES DE GRADO Y MASTER EN LA UDC (Arts. 2.3; 3.b; 4.3 and 7.5) (05/04/2017) may take the mid-term exams, if any, without having to attend 80% of the face-to-face classes, as long as the professors are duly informed at the beginning of the course. Regardless of the foregoing, the professors may assign these students with different assignments/ problems throughout the course to be presented during tutorials, using the TEAMS system if appropriate in the teacher's opinion.

The fraudulent completion of exams or assessment activities, once confirmed, will result directly in a failing grade in the respective exam session: the student will be graded as "fail" (numerical grade of 0) in the corresponding academic year's exam session, whether the misconduct occurs in the first opportunity or the second. In this regard, their grade will be modified in the first opportunity's record, if necessary.

The assessment critieria reflected on table A-II/1 of the STCW Code, and also reflected in the Quality System, are taken into account to design and perform the assessment.

Sources of information



Complementary	
	- IMO (). ISM CODE.
	- IMO (). INTERNATIONAL CODE OF SIGNALS.
	- IALA (). MARITIME BUOYAGE SYSTEM. IALA
Basic	- IMO (). INTERNATIONAL REGULATIONS FOR PREVENTING COLLISIONS AT SEA.

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.