

		Teaching Guide		
Identifying Data			2023/24	
Subject (*)	Ship Manoeuvering II Code			631G01309
Study programme	Grao en Náutica e Transporte Marítim	10		
		Descriptors		
Cycle	Period	Year	Туре	Credits
Graduate	1st four-month period Third Optional		Optional	6
Language	SpanishGalician	· · · · · · · · · · · · · · · · · · ·		· · · · ·
Teaching method	Face-to-face			
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		I		
General description	Professional Sailor. It can be said that outputs in the design and development	t a trained and experienced	Marine is the only pers	owledge in the training of a on able to predict all the inputs a
	Professional Sailor. It can be said that	t a trained and experienced nt of the Maneuver of a ship. s of a bad decision when exe s, fires and explosions. An er delays, arrests, etc.	Marine is the only pers ecuting a Maneuver car	on able to predict all the inputs a
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	Study programme competences / results
Code	Study programme competences / results
A59	RA6C-Identify critical situations and use available means in order to resolve them effectively.
B31	RA9H-Effectively solve practical problems associated with the subject by applying the knowledge acquired.
B33	RA11H-Develop both individual and group work
B40	RA27H?Use of IMO Standard Phrases for maritime communications, and use of written and spoken English.
B53	RA50H?Operate the remote controls of propulsion installations and machine systems and services
B57	RA58H?Using leadership and management qualities
B79	RA80H?Observe safe working practices.
C15	RA17X-Communicating effectively in a work environment.
C20	RA25X?Respond to emergencies
C22	RA29X?Manoeuvring the ship
C29	RA40X?Planning a voyage and directing navigation
C30	RA48X?Take action in case of navigational emergencies
C31	RA49X?Manoeuvring and steering the ship in all conditions



Learning outcomes			
Learning outcomes		Study programme competences /	
		results	1
RA6C-Identify critical situations and use available means in order to resolve them effectively.	A59		
RA9H-Effectively solve practical problems associated with the subject by applying the knowledge acquired.		B31	
B33 RA11H-Develop both individual and group work.		B33	
RA17X-Communicating effectively in a work environment.			C15
RA25X-Respond to emergencies.			C20
RA27H-Use of IMO Standard Phrases for maritime communications, and use of written and spoken English.		B40	
RA29X-Manoeuvring the ship.			C22
RA40X-Planning a voyage and directing navigation.			C29
RA48X-Take action in case of navigational emergencies.			C30
RA49X-Manoeuvring and steering the ship in all conditions.			C31
RA50H-Operate the remote controls of propulsion installations and machine systems and services.		B53	
RA58H-Using leadership and management qualities.		B57	
RA80H-Observe safe working practices.		B79	

	Contents
Торіс	Sub-topic
Topic 1. Ship handler. Crew.	STCW Chapter VIII. BRM (Bridge Resources Management). Qualities of a good
	shunting operator. Teams. Leadership. Communications. SMCP.
Topic 2. Approach passage plan.	SOLAS Regulation V/29. IMO Resolution A.893(21). Pilot Directions. Passage from
	open sea to restricted waters (distances, reaction time). Check lists. No Go Areas. No
	Return Point. Anchoring. SMCP. Critical situations (grounding, dredging).
Topic 3. Pilot boarding plan.	Approach manoeuvre. Pilot ladder rigging. Master-Pilot Information Exchange. IMO
	Resolutions A.1045(27) and A.960(23). SMCP. Critical situations (pilot fall into the
	water).
Topic 4. River or channel passage plan.	Vertical effects of shallow water (squat, squat when crossing another vessel).
	Horizontal shallow water effects (interaction, bank effect). Stopping distances.
	Constant ROT curves. Constant rudder curves Escort towing. Tug interaction
	Streamlines. SMCP. Critical situations (grounding, collision).
Topic 5. Planning the use of tugs.	Tugs to take. Making fast/letting go towing line. SMCP. Critical situations (interaction,
	PRL).
Topic 6. Berthing plan.	Berthing and unberthing of various types of vessels in different wind, tide and current
	conditions, with and without tugs. Dock dimensions. Approach. Use of anchor.
	Mooring. Berthing configuration. Calculations. SMCP. Critical situations (contact with
	quay, PRL).



Topic 7. Special manoeuvres.	Sea trials.
	Autopilot.
	Emergency steering.
	Bad weather.
	VTSS. Symbols. RIPA. GFCS.
	MOB. IAMSAR.
	Life boat operations. Embarkation of shipwrecked persons.
	Helicopter operations.
	Dry dock entry.
	Navigation in ice.
	Deep-sea towing.
	Offshore.
	Navigation in the presence of cetaceans.

	Plannin	g		
Methodologies / tests	Competencies /	Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Guest lecture / keynote speech	A59 B40 B79 C20	30	60	90
	C22 C29 C30 C31			
Workshop	B31 B33 B40 B53	12	12	24
	B57 C15			
Supervised projects	A59 B31 B33 B79	2	10	12
	C15 C22 C29 C30			
	C31			
Collaborative learning	A59 B31 B33 B57	4	8	12
	B79 C15 C29 C31			
Objective test	A59 B31 B40 B79	4	0	4
	C15 C29 C30 C31			
Mixed objective/subjective test	A59 B31 B33 B40	6	0	6
	B53 B57 B79 C15			
	C20 C22 C29 C30			
	C31			
Personalized attention		2	0	2

	Methodologies
Methodologies	Description
Guest lecture /	Oral presentation of the topics that make up the subject, also seeking the active participation of the students. Power Point
keynote speech	presentations, technical software (CAD, Maxsurf, etc.) and videos could be used as support. Some contents can be developed
	in English.
Workshop	Practical application of the lectures, problem solving (formulas, calculations) and analysis of practical cases. Some Role Play
	may be applied for the explanation of real actions on board and the use of the Standard Marine Communication Phrases.
Supervised projects	An example of Supervised project could be the application of the contents of the subject in the development of a practical case
	of a Voyage Plan.
Collaborative learning	Procedure guided in person and/or supported with information and communication technologies, based on the organisation in
	small groups in which students work together in the resolution of tasks assigned by the teacher.
Objective test	A test designed to determine whether or not the answers given are correct. It can combine multiple-choice, ranking, short
	answer, discrimination, completion and/or association questions. It can also be constructed with only one type of any of these
	questions.
	Several of them will be used throughout the course.



Mixed	These will consist of tests, generally written, consisting of theoretical questions (essay test, short answer, etc.) and practical
objective/subjective	questions (calculations, manoeuvre graphs, etc.).
test	

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of the teacher.
s soon as possible to all queries sent.
-time dedication and academic dispensation of exemption from attendance" the teacher
rials. Teacher and students will coordinate this assistance.

		Assessment	
Methodologies	Competencies /	es / Description	
	Results		
Collaborative learning	A59 B31 B33 B57	At the beginning of the term, small groups will be established and they will work on a	10
	B79 C15 C29 C31	project whose topic and due date will be indicated by the teacher. The work may be	
		presented in class in an oral presentation and will be assessed according to a rubric. If	
		the grade of the work is lower than 5.0, the students will be considered as not having	
		passed the Continuous Assessment.	
Objective test	A59 B31 B40 B79	If the average of the objective tests is less than 5.0, the student will be considered to	20
	C15 C29 C30 C31	have failed the Continuous Assessment.	
Guest lecture /	A59 B40 B79 C20	A minimum attendance of 80% will be required to qualify for the Continuous	0
keynote speech	C22 C29 C30 C31	Assessment. Lack of punctuality may be a reason for not being accepted in the	
		classroom.	
		In order to allow attendance to certain classes with content already uploaded to	
		Moodle, the teacher may ask for an outline, concept map or summary of the topics to	
		be covered in the classes beforehand.	
Mixed	A59 B31 B33 B40	Each combined test will consist of theoretical questions (essay test, short answer,	40
objective/subjective	B53 B57 B79 C15	etc.) and practical questions (calculations, manoeuvre graphs, etc.). In order for these	
test	C20 C22 C29 C30	tests to average out, the minimum mark shall be 4.0. If the average of the mixed tests	
	C31	is less than 5.0, the student will be considered to have failed the Continuous	
		Assessment.	
Supervised projects	A59 B31 B33 B79	The work will be assessed according to a rubric. If the grade of the work is lower than	30
	C15 C22 C29 C30	5.0, the student will be considered to have failed the Continuous Assessment.	
	C31		
Workshop	B31 B33 B40 B53	A minimum attendance of 80% will be required to qualify for the Continuous	0
	B57 C15	Assessment. Lack of punctuality may be grounds for not being accepted in the	
		classroom. In order to allow attendance to certain classes with content already	
		uploaded to Moodle, the teacher may ask for an outline, conceptual map or summary	
		of the topics to be covered in the classes beforehand.	

Assessment comments



Right to Continuous Evaluation (CE). To have the right to CE, it will be necessary to have a minimum of 80% of attendance to face-to-face classes, either expository or interactive teaching. Final mark for CE = (0.4*Average of mixed tests) + (0.2*Average of objective tests) + (0.3* Supervised project mark) + (0.1* Collaborative project.mark). Students with recognition of part-time dedication and academic dispensation of exemption from attendance (as established in the corresponding UdC regulations), will be able to take the EC without the need to attend 80% of the face-to-face classes. To this end, these students will duly inform the lecturer, at the beginning of the course, of their academic exemption and their availability to attend classes. The teacher will agree individually with these students the methodologies to compensate for the non-attendance to face-to-face classes and their corresponding evaluation. Mixed objective/subjective tests. 40% of the CE grade is obtained from the average of the mixed tests taken (one or several) on the topics contained in the subject. In order for these tests to be averaged together, the minimum mark will be 4.0. If the average of the mixed tests is less than 5.0, the student will be considered to have failed the CE. Objective tests. 20% of the mark for the CE is obtained from the average of the objective tests taken during the course. If this average is less than 5.0, the student will be considered to have failed the CE. If a student fails to attend an objective test without a justified reason, the mark for the test will be 0. Those who justify the absence may take the test on another date designated by the teacher. Supervised projects. 30% of the grade of the EC is obtained from the grade of the supervised work. The work will be assessed according to a rubric. If the grade of the work is lower than 5.0, the student will be considered to have failed the CE. Collaborative project. 10% of the CE grade is obtained from the grade obtained in the collaborative project, which will be evaluated according to a rubric. If the grade of the work is lower than 5.0, it will be considered that the students have not passed the CE. 1st and 2nd official exam dates. Students who do not pass the CE (minimum attendance and grade) or who decide not to follow it, may sit the final exams in January and June. The assessment of these exams will consist of a mixed test that may consist of any type of question. The contents of these mixed tests may cover any content of the subject. The final mark of the exam will be the mark of this test. Roundina. All marks will be based on a maximum score of 10.0. To pass the continuous assessment and the two opportunities, the final mark must

be a 5.0. Any grade lower than this will be considered as a fail. Grades will



be rounded off to the nearest tenth. In the case of the hundredth being 5, it will be rounded up to the nearest tenth. Ethical behaviour.



If, during an assessment

test, the responsible teachers become aware of any breach of the principles of decorum, legality or individual merit, such as the use of documents or instruments that are not permitted, the copying or attempted copying of results obtained by fellow students, or access to the assessment tests with electronic instruments or mobile devices switched on, not expressly authorised by the responsible teacher, Article 14 will be applied, Article 14 of the Norms of Assessment, Revision and Claiming of the Qualifications of University Degree and Master's Degrees and the sanctions included in Article 11 of the Disciplinary Regulations for Students of the University of A Coruña will be applied (the student will be qualified with a "fail" - numerical grade 0 - in the corresponding call of the academic year, whether the offence is committed at the first opportunity report, if necessary).



	Sources of information
Basic	
Complementary	
	Recommendations
	Subjects that it is recommended to have taken before
Naval Construction/631G01105	5
Ship's Energy and auxiliary sys	tems/631G01204
Ship Manoeuvering I/631G012	70
Ship's Theory I/631G01208	
Navigation and Ship Managem	ent/631G01212
	Subjects that are recommended to be taken simultaneously
Navigation II/631G01306	
Collision Rules, Signals, Bouya	ge Systems and ISM Code/631G01303
	Subjects that continue the syllabus
Nautical simulation/631G01402	
	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.