		Teaching	g Guide				
	Identifyin	g Data			2021/22		
Subject (*)	Marine drawing Code 730G05010				730G05010		
Study programme	Grao en Enxeñaría Naval e Oceá	nica					
		Descri	iptors				
Cycle	Period	Ye	ar	Туре	Credits		
Graduate	1st four-month period	Sec	ond	Obligatory	6		
Language	Spanish		,				
Teaching method	Face-to-face						
Prerequisites							
Department	Enxeñaría Naval e Industrial						
Coordinador	Álvarez García, Ana		E-mail	ana.alvarez1@	udc.es		
Lecturers	Álvarez García, Ana		E-mail	ana.alvarez1@	udc.es		
Web	www.udc.es	I					
General description	This course shows all the technology	ogies needed to	o interpret ship des	sign and construction	drawings and make and develop		
	blueprints and other technical dra	ws using the lin	nes plan of a vesse	I.			
Contingency plan	1. Modifications to the contents						
	No changes will be made						
	2. Methodologies						
	*Teaching methodologies that are maintained						
	Practices through ICT (compute in the evaluation)						
	Laboratory practices						
	Problem solving						
	Supervised work (compute in the	evaluation).					
	*Teaching methodologies that are	modified					
	Maxi session (will be done synchr	ronously, throug	gh TEAMS)				
	Mixed test (to be performed synchronously, in person or through TEAMS depending on the epidemiological situation						
	related to the coronavirus)						
	3. Mechanisms for personalized attention to students						
	- E-mail: According to student nee	eds and accordi	ing to the published	d tutorial schedule.			
	- Moodle: According to student ne		-				
	- Teams: According to students' needs and according to the published tutorial schedule.						
	4. Modifications in the evaluation						
	No changes will be made						
	*Evaluation observations:						
	Evaluation methodologies and the	eir weighting are	e maintained, exce	pt for their presence	only if the epidemiological situation		
	related to the coronavirus requires it.						
	Modifications to the bibliography or webgraphy						
	5. Modifications to the bibliograph	iy or webgraphy	y				

	Study programme competences / results
Code	Study programme competences / results
B1	That the students proved to have and to understand knowledge in an area of study what part of the base of the secondary education, and
	itself tends to find to a level that, although it leans in advanced text books, it includes also some aspects that knowledge implicates
	proceeding from the vanguard of its field of study
B5	That the students developed those skills of learning necessary to start subsequent studies with a high degree of autonomy
C3	Understanding the importance of the enterprising culture and knowing the means within reach of the enterprising people.
C4	Recognizing critically the knowledge, the technology and the available information to solve the problems that they must face.
C5	Assuming the importance of the learning as professional and as citizen throughout the life.



C6	Recognizing the importance that has the research, the innovation and the technological development in the socioeconomic and cultural
	advance of the society.
C7	Capacidade de traballar nun ámbito multilingüe e multidisciplinar.

Learning outcomes			
Learning outcomes	Study programme		
	com	petenc	es/
		results	
Master the representation of the hull and components of the ship.		B1	СЗ
		B5	C4
			C5
			C6
			C7
Solve graphic tracings to represent the ship as well as acquire the capacity of abstraction to view it in units, spaces and / or		B1	СЗ
independent parts or as a set from different positions of the space.		B5	C4
			C5
			C6
			C7

	Contents	
Topic Sub-topic		
Graphic representation of naval terminology.	Graphical explanation of various concepts of naval terminology	
Representation of the hull and layout of the ship's components.	Explanation of several draws lines plan based	
Representation of general plans and details of the ship.	Make multiple practical drawing exercises lines plan based	

	Plannin	g		
Methodologies / tests	Competencies /	cies / Teaching hours	Student?s personal	Total hours
	Results	(in-person & virtual)	work hours	
Guest lecture / keynote speech	B5 B1 C3 C4 C5 C6	15	15	30
	C7			
ICT practicals	B1 B5 C3 C4 C5 C6	15	15	30
	C7			
Problem solving	B1 B5 C3 C4 C5 C6	10	10	20
	C7			
Supervised projects	B1 B5 C3 C4 C5 C6	23	46	69
	C7			
Personalized attention		1	0	1

	Methodologies		
Methodologies	Description		
Guest lecture /	In this activity, the contents are worked on in a theoretical framework and reinforced with a practical framework, guided in the		
keynote speech	classroom, through ICT practices, problem solving and tutored work.		
ICT practicals	It is included in the practical framework. It enables the solution of problems and the development of tutored work in a guided		
	manner in the classroom and autonomously.		



Problem solving	It is included in the theoretical-practical framework. It enables the solution of problems applied to the naval sector in a guided
	classroom setting and with autonomous work.
Supervised projects	A group work will be carried out that will include all the topics in the programme. The steps to be followed are: presentation of
	the topic, classroom sessions for guided follow-up, autonomous work and classroom presentation.

Personalized attention

r ersonanzeu attention
Description
In the classroom, during the hours set aside for the subject, students' work will be monitored in a guided manner and any
doubts will be resolved. This implies an obligatory participation of the students.
PERSONALIZED CARE CONSULTATIONS TO MAKE THE STUDENT.
Even though what is indicated below corresponds to the criteria of behavior and attitude towards the issues raised by the
professors in charge of this teaching during all the years in which we have taught these courses, by legal imperative we are
obliged to specify in particular the following agreement, with the Regulations that regulate the regime of dedication to the study
and permanence and the progression of undergraduate and master's degree students in the UDC (articles 6.b) and 7.5), is
included in the guide teacher WHAT IS accepted the dispensation in this matter and in this case the specific personalized
attention measures (work dynamics) that will be developed with this student body for the study of the subject will be the same
as those established for the rest of the students.

		Assessment	
Methodologies	Competencies /	es / Description	
	Results		
Problem solving	B1 B5 C3 C4 C5 C6	In order to pass the subject, students must have passed all the problems posed and	30
	C7	must participate in the classroom in the guided monitoring of these problems. This	
		implies an obligatory classroom participation for the students.	
Supervised projects	B1 B5 C3 C4 C5 C6	In order to pass the subject, students must have passed the proposed work and must	70
	C7	participate in the classroom in the guided monitoring of the same. This implies an	
		obligatory classroom participation for the students.	

Assessment comments

1st Call: continuous assessment will be followed. In order to pass the subject, students must participate in the classroom in the guided monitoring of all the proposed activities. Students who do not

follow the continuous assessment may opt for a mixed test that will have a grade of 100%.

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2nd Call: the mixed test will have a 100% grade. Early call (December): the exam will be graded 100%.

Early call (December): the exam will have a grade of 100%.

For students with academic dispensation and part-time students, the tests will be the same as those established for the rest of the students.

In the second opportunity and early call in December they will have to take a mixed test with a 100% grade.

"The fraudulent

completion of the tests or assessment activities shall be governed by article 14.4.which reads as follows:? Na realización de traballos, o plaxio e a utilización de material non orixinal, incluído aquel obtido a través da internet, sen indicación expresa da súa procedencia e, se é o caso, o permiso do seu autor/a, poderá ser considerada causa de cualificación de suspenso na actividade. Todo iso sen prexuízo das responsabilidades disciplinarias ás que puidese haber lugar tras o correspondente procedemento "



	Sources of information
Basic	- AENOR (2000). Dibujo técnico. Normas básicas. Madrid:AENOR
	- KLASS VAN DOKKUM (2010). SHIP KNOWLEDGE. DOKMAR THE NETHERLAND
	- JUNCO-OCAMPO, F. (2002). Dibujo Naval. Ferrol : Escola Politécnica Superior
	- CRUCELAEGUI CORVINOS, A. (1985). Geometría y representación de carenas: diseño de formas asistido por
	ordenador. Madrid: ETSIN
Complementary	

Recommendations
Subjects that it is recommended to have taken before
Engineering drawing/730G05003
Shipbuilding and ship propulsion/730G05009
Subjects that are recommended to be taken simultaneously
Subjects that continue the syllabus
Other comments

Even though what is indicated below correspondsto the criteria of behaviour and attitude towards the issues raised by theprofessors in charge of this teaching during all the years in which we havetaught these courses, by legal imperative we are obliged to specifyspecifically, the following: "To help achieve a sustained immediateenvironment and meet the objective of action number 5:" Healthy andenvironmental and social teaching and research "of the" Green CampusFerrol Action Plan ": Thedelivery of the documentary works that are made in this matter: ? It will be done through virtual campus, in digital format without the need to print them ? If it is necessary to make them on paper: - Plastics will not be used - Double-sided prints will bemade. - Recycled paper will be used. - Printing of drafts will beavoided. Further: ? A sustainable use of resources and theprevention of negative impacts on the natural environment must be made. ? The importance of ethical principles related to the values ?? of sustainability in personal and professional behaviours mustbe taken into account. ? Genderperspective is incorporated into the teaching of this subject (non-sexistlanguage will be used, bibliography of authors of both sexes will be used, intervention in class of students will be encouraged ...). ? Work will be done to identify and modifyprejudices and sexist attitudes, and the environment will be influenced tomodify them and promote values ?? of respect and equality. ?

Discrimination situations must bedetected and actions and measures will be proposed to correct them. ? The full integration of students who, for physical, sensory, psychological or socio-cultural reasons, have difficulties in gainingadequate, equal and beneficial access to university life will be facilitated.

(*)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.