		Teaching	g Guide				
	Identifyin	g Data			2020/21		
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	Hybrid						
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 de	esign and construction	drawings and make and develop		
	blueprints and other technical draw	ws using the lin	nes plan of a vess	el.			
Contingency plan	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 synchronously, through 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 needs and according to the published tutorial schedule.						
	- Moodle: According to student needs and according to the published tutorial schedule.						
	- 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, exc	ept for their presence of	only if the epidemiological situation		
	related to the coronavirus requires it.						
	5. Modifications to the bibliography or webgraphy						
	No changes are made.						

	Study programme competences
Code	Study programme competences
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	/ progra	amme
	cor	npeten	ces
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
	Make multiple practical drawing exercises lines plan based
Representation of general plans and details of the ship.	

	Planning			
Methodologies / tests	Competencies	Ordinary class	Student?s personal	Total hours
		hours	work hours	
ICT practicals	B1 B5 C3 C4 C5 C6	19	38	57
	C7			
Laboratory practice	B1 B5 C3 C4 C5 C6	4	4	8
	C7			
Guest lecture / keynote speech	B1 B5 C3 C4 C5 C6	18	18	36
	C7			
Problem solving	B1 B5 C3 C4 C5 C6	10	10	20
	C7			
Supervised projects	B1 B5 C3 C4 C5 C6	5	20	25
	C7			
Mixed objective/subjective test	B1 B5 C3 C4 C5 C6	1	1	2
	C7			
Personalized attention		2	0	2

Methodologies		
Methodologies	Description	
ICT practicals	CT practicals ACTIVITIES OF PRACTICAL CHARACTER	
Laboratory practice	ACTIVITIES OF PRACTICAL CHARACTER	

Guest lecture /	STRUCTURAL DEVELOPMENTS AND PLAN DRAWING BODY	
keynote speech		
Problem solving	PRACTICAL EXERCISES	
Supervised projects	TRACES STRUCTURAL PRACTICES	
Mixed	TEST	
objective/subjective		
test		

	Personalized attention
Methodologies	Description
Guest lecture /	PERSONALIZED CARE CONSULTATIONS TO MAKE THE STUDENT.
keynote speech	
Problem solving	Even though what is indicated below corresponds to the criteria of behavior and attitude towards the issues raised by the
Supervised projects	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	Description	Qualification
Mixed	B1 B5 C3 C4 C5 C6	Conducting an exam	30
objective/subjective	C7		
test			
ICT practicals	B1 B5 C3 C4 C5 C6	Practical activities	30
	C7		
Supervised projects	B1 B5 C3 C4 C5 C6		40
	C7	Practical activities	

## **Assessment comments**

1st Call:the evaluation will be made on the test, the supervised work and the practices through the TIC.

2nd Call:the testwill have a 100% rating.

For the students with dispense academic theproofs will be the same that the established for the rest of the students.

	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

Attendance to the theoretical and practical classes is recommended. The realization of thepractices is mandatory and the objective test will not be evaluated without thecorrect performance of the same. Even though what is indicated below corresponds to 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 and environmental and social teaching and research "of the" Green CampusFerrol Action Plan ": The delivery of the documentary works that are made in this matter: ? Will be requested in virtual format and / or computer support? It will be done through Moodle, 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 the prevention 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 must be 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 be detected 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 facil

(\*)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.