UNIVERSIDADE DA CORUÑA

Teaching Guide				
Identifying Data				2020/21
Subject (*)	Marine drawing		**Code**	730G05010
Study programme	Grao en Enxeñaría Naval e Oceánica			
Descriptors				
Cycle	**Period**	**Year**	**Type**	**Credits**
Graduate	1st four-month period	Second	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			
General description	This course shows all the technologies needed to interpret ship design and construction drawings and make and develop blueprints and other technical draws using the lines plan of a vessel.			
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 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 their weighting are maintained, except for their presence 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 programme competences
Master the representation of the hull and components of the ship.		B1 B5	C3 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 independent parts or as a set from different positions of the space.		B1 B5	C3 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 hours	Student?s personal work hours	Total hours
ICT practicals	B1 B5 C3 C4 C5 C6 C7	19	38	57
Laboratory practice	B1 B5 C3 C4 C5 C6 C7	4	4	8
Guest lecture / keynote speech	B1 B5 C3 C4 C5 C6 C7	18	18	36
Problem solving	B1 B5 C3 C4 C5 C6 C7	10	10	20
Supervised projects	B1 B5 C3 C4 C5 C6 C7	5	20	25
Mixed objective/subjective test	B1 B5 C3 C4 C5 C6 C7	1	1	2
Personalized attention		2	0	2
(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.				

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

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

Personalized attention	
Methodologies	**Description**
Guest lecture / keynote speech Problem solving Supervised projects	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**	**Description**	**Qualification**
Mixed objective/subjective test	B1 B5 C3 C4 C5 C6 C7	Conducting an exam	30
ICT practicals	B1 B5 C3 C4 C5 C6 C7	Practical activities	30
Supervised projects	B1 B5 C3 C4 C5 C6 C7	Practical activities	40

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

Attendanceto 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 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: ? Will be requested in virtual format and / orcomputer support ? It will be done throughMoodle, 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 relatedto 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.