



Teaching Guide

Teaching Guide				
Identifying Data				2020/21
Subject (*)	Integral Process of the Ship Project		Code	730496201
Study programme	Mestrado Universitario en Enxeñaría Naval e Oceánica (plan 2018)			
Descriptors				
Cycle	Period	Year	Type	Credits
Official Master's Degree	1st four-month period	First	Obligatory	6
Language	Spanish			
Teaching method	Face-to-face			
Prerequisites				
Department	Enxeñaría Naval e IndustrialEnxeñaría Naval e Oceánica			
Coordinator	Álvarez García, Ana	E-mail	ana.alvarez1@udc.es	
Lecturers	Álvarez García, Ana Puentes Varela, Basilio	E-mail	ana.alvarez1@udc.es basilio.puentes@udc.es	
Web				
General description	The subject will analyze the application of specific classification levels and specific regulations to the ship's project. Construction markets, ship repair and construction strategy.			
Contingency plan	1. Modifications to the contents No changes will be made. 2. Methodologies *Teaching methodologies that are maintained All the teaching methodologies are maintained, modifying only exceptionally their face to face character if the epidemiological situation related to the coronavirus requires it. *Teaching methodologies that are modified 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 *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 will be made.			

Study programme competences

Code	Study programme competences
A2	A01 - Capacidade para proxectar buques axeitados ás necesidades do transporte marítimo de persoas e mercadorías, e ás da defensa e seguridade marítimas.
A4	A03 - Coñecemento da dinámica do buque e das estruturas navais, e capacidade para realizar análise de optimización da estrutura da integración dos sistemas a bordo, e do comportamento do buque no mar e da súa manobrabilidade.
A6	A05 - Coñecemento dos mercados da construción e reparación de buques e dos seus aspectos legais e económicos, para a súa aplicación aos correspondentes contratos e especificacións.
A7	A06 - Capacidade para definir a estratexia construtiva dos buques e para planificar e controlar o seu desenvolvemento.
B1	CB06 Posuír e comprender coñecementos que acheguen unha base ou oportunidade de ser orixinais no desenvolvemento e/ou aplicación de ideas, a miúdo nun contexto de investigación
B2	CB07 Que os estudantes saiban aplicar os coñecementos adquiridos e a súa capacidade de resolución de problemas en ámbitos novos ou pouco coñecidos dentro de contextos máis amplos (ou multidisciplinares) relacionados coa súa área de estudo



B3	CB08 Que os estudantes sexan capaces de integrar coñecementos e enfrontarse á complexidade de formular xuízos a partir dunha información que, sendo incompleta ou limitada, inclúa reflexións sobre as responsabilidades sociais e éticas vinculadas á aplicación dos seus coñecementos e xuízos
B4	CB09 Que os estudantes saiban comunicar as súas conclusións e os coñecementos e razóns últimas que as sustentan a públicos especializados e non especializados dun modo claro e sen ambigüidades.
B5	CB10 Que os estudantes posúan as habilidades de aprendizaxe que lles permitan continuar estudando dun modo que haberá de ser en boa medida autodirixido ou autónomo.
B6	G01 Capacidade para resolver problemas complexos e para tomar decisións con responsabilidade sobre a base dos coñecementos científicos e tecnolóxicos adquiridos en materias básicas e tecnolóxicas aplicables na enxeñaría naval e oceánica, e en métodos de xestión.
B8	G03 Capacidade para proxectar buques e embarcacións de todo tipo.
B11	G06 Capacidade para realizar investigación, desenvolvemento e innovación en produtos, procesos e métodos navais e oceánicos.
B14	G09 Capacidade para redactar especificacións que cumpran co establecido nos contratos, os regulamentos e as normas de ámbito naval e industrial.
B18	G13 Capacidade para desenvolver a enxeñaría necesaria nas operacións de salvamento e rescate e no deseño e utilización dos medios requiridos.
B20	G15 Capacidade para organizar e dirixir grupos de traballo multidisciplinares nunha contorna multilingüe, e de xerar informes para a transmisión de coñecementos e resultados.
C1	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.
C2	C1 Capacidade pra desenrolar a actividade profesional nun entorno multilingue
C5	ABET (c) An ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
C7	ABET (e) An ability to identify, formulate, and solve engineering problems.
C8	ABET (f) An understanding of professional and ethical responsibility.
C11	ABET (i) A recognition of the need for, and an ability to engage in life-long learning.
C12	ABET (j) A knowledge of contemporary issues.
C13	ABET (k) An ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

Learning outcomes			
Learning outcomes		Study programme competences	
Application and integration of technicians and calculations in the field of the naval architecture, compartmentalized, static and dynamics of the fuselage stability in intact state and after failures.		AJ1	BC1 CC1
		AJ3	BC2 CC2
		AJ5	BC3 CC5
		AJ6	BC4 CC7
			BC5 CC8
			BJ1 CC11
			BJ3 CC12
			BJ6 CC13
			BJ9
			BJ13
			BJ15



Reglamentación Specific to fill and interrelationship of all the naval technological components installed on board and applied to the development of the project of the fuselaje.	AJ1	BC1	CC1
	AJ3	BC2	CC2
	AJ5	BC3	CC5
	AJ6	BC4	CC7
		BC5	CC8
		BJ1	CC11
		BJ3	CC12
		BJ6	CC13
		BJ9	
		BJ13	
		BJ15	
Markets of the Construction and Repair of Fuselages.	AJ5	BC1	CC1
		BC2	CC2
		BC3	
		BC4	
		BC5	
		BJ1	
		BJ3	
		BJ15	
Definition and planning of Constructive Strategy.	AJ6	BC1	CC2
		BC2	
		BC3	
		BC4	
		BC5	
		BJ1	
		BJ15	

Contents	
Topic	Sub-topic
Application and integration of techniques and calculations in the field of naval architecture, compartmentalized, static and dynamic vessel stability in intact state and after breakdowns.	
Specific regulation to complete and interrelation of all the naval technological components installed on board and applied to the development of the ship Project.	
Ship Construction and Repair Markets.	
Definition and planning of Construction Strategy.	

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A2 A4 A6 A7 B1 B2 B3 B4 B5 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	35	0	35



Problem solving	A2 A4 A6 A7 B1 B3 B4 B5 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	10	0	10
Case study	A2 A4 A6 A7 B1 B2 B3 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	0	45	45
Speaking test	A2 A4 A6 A7 B1 B2 B3 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	10	0	10
Supervised projects	A2 A4 A6 A7 B1 B2 B3 B4 B5 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	0	45	45
Personalized attention		5	0	5

(*)The information in the planning table is for guidance only and does not take into account the heterogeneity of the students.

Methodologies	
Methodologies	Description
Guest lecture / keynote speech	Exhibition of the contained of the subject.
Problem solving	Solution of problems.
Case study	Study of cases.
Speaking test	Oral proof on it contained of the subject.
Supervised projects	Realization of the projects proposed in kind.

Personalized attention	
Methodologies	Description
Supervised projects	<p>Follow-up of the projects developed in the matter.</p> <p>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.</p>

Assessment			
Methodologies	Competencies	Description	Qualification
Supervised projects	A2 A4 A6 A7 B1 B2 B3 B4 B5 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	Follow-up of the projects developed in the matter.	75



Speaking test	A2 A4 A6 A7 B1 B2 B3 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	Oral test of the contents of the supervised works.	25
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Assessment comments

1st Call: the evaluation will be carried out on the test and the works supervised.

2nd Call: the test will have a 100% qualification.

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

Sources of information

- | | |
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| Basic | <ul style="list-style-type: none"> - Det Norske Veritas. (2008). Classification of offshore units DNV offshore codes. Hovik : Det Norske Veritas Classification - M.G. Stavitsky (1983). Fire fighting aboard ships. Houston [etc] : Gulf Publishing Company, co |
| Complementary | |

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

Even though what is indicated below corresponds to the criteria of behaviour 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 specifically, the following: "To help achieve a sustained immediate environment and meet the objective of action number 5: "Healthy and environmental and social teaching and research "of the" Green Campus Ferrol 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 be made. - Recycled paper will be used. - Printing of drafts will be avoided. 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. ? Gender perspective is incorporated into the teaching of this subject (non-sexist language 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 modify prejudices and sexist attitudes, and the environment will be influenced to modify 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 gaining adequate, 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.