



Teaching Guide

Teaching Guide				
Identifying Data				2018/19
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			
Coordinador	Junco Ocampo, Fernando	E-mail	fernando.junco@udc.es	
Lecturers	Álvarez García, Ana Junco Ocampo, Fernando	E-mail	ana.alvarez1@udc.es fernando.junco@udc.es	
Web				
General description	The subject will analyze the application of specific classification levels and specific regulations to the ship's project.			

Study programme competences

Code	Study programme competences
A1	Capacidade para proxectar buques axeitados ás necesidades do transporte marítimo de persoas e mercadorías, e ás da defensa e seguridade marítimas.
A3	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.
A5	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.
A6	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.	AC1	BC1	CC1
	AC3	BC2	CC2
	AC5	BC3	CC5
	AC6	BC4	CC7
		BC5	CC8
		BJ1	CC11
		BJ3	CC12
		BJ6	CC13
		BJ9	
		BJ13	
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.	AC1	BC1	CC1
	AC3	BC2	CC2
	AC5	BC3	CC5
	AC6	BC4	CC7
		BC5	CC8
		BJ1	CC11
		BJ3	CC12
		BJ6	CC13
		BJ9	
		BJ13	
Markets of the Construction and Repair of Fuselages.	AC5	BC1	CC1
		BC2	CC2
		BC3	
		BC4	
		BC5	
		BJ1	
		BJ3	
		BJ15	



Definition and planning of Constructive Strategy.	AC6	BC1 BC2 BC3 BC4 BC5 BJ1 BJ15	CC2
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Contents	
Topic	Sub-topic
Enlargement of the project of the ship as some notes of ranking.	Quotas of kind.
Specific rule that affect the true notes of ranking.	Chapters of the regulation of the SC.
The blocks and following subjects develop the contents established in the index card of the Memory of verification that are: a new design, STRP, windows and portholes, SPS, heldeck, clean desing, FIFI G4, NAUT/DP.	The subject centers in the application and integration of technical and calculations within the scope of the naval architecture, compartimentado, estática and dynamic of the ship stability in intact state and after failures, specific regulation the cumprimentar and interrelación of all the naval technological components installed to edge and applied to the development of the project of the ship, all this in accordance with the criterion and teachings of the professor.

Planning				
Methodologies / tests	Competencies	Ordinary class hours	Student?s personal work hours	Total hours
Guest lecture / keynote speech	A1 A3 A5 A6 B1 B2 B3 B4 B5 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	35	0	35
Problem solving	A1 A3 A5 A6 B1 B3 B4 B5 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	10	0	10
Case study	A1 A3 A5 A6 B1 B2 B3 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	0	45	45
Objective test	A1 A3 A5 A6 B1 B2 B3 B4 B5 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	5	0	5
Speaking test	A1 A3 A5 A6 B1 B2 B3 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	5	0	5
Supervised projects	A1 A3 A5 A6 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.
Objective test	Objective proof on it contained of the subject.
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	Follow-up of the projects developed in the matter. 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
Supervised projects	A1 A3 A5 A6 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
Objective test	A1 A3 A5 A6 B1 B2 B3 B4 B5 B6 B8 B11 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	Objective test of the theoretical contents of the subject.	20
Speaking test	A1 A3 A5 A6 B1 B2 B3 B14 B18 B20 C1 C2 C5 C8 C11 C7 C12 C13	Objective test of the theoretical contents of the subject.	5

Assessment comments
For the students with dispense academic the proofs will be the same that the established for the rest of the students.

Sources of information



Basic	- 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.
- 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 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.