



## Teaching Guide

Identifying Data					2017/18
Subject (*)	SHIP'S GRAPHIC REPRESENTATION			Code	730G01141
Study programme	Grao en Arquitectura Naval				
Descriptors					
Cycle	Period	Year	Type	Credits	
Graduate	1st four-month period	Third	FB	6	
Language	Spanish				
Teaching method	Face-to-face				
Prerequisites					
Department	Enxeñaría Naval e Industrial				
Coordinador		E-mail			
Lecturers		E-mail			
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.				

## Study programme competences / results

Code	Study programme competences / results
A5	Capacidade de visión espacial e coñecemento das técnicas de representación gráfica, tanto por métodos tradicionais de xeometría métrica e xeometría descritiva, coma mediante as aplicacións de deseño asistido por ordenador.
B1	Aprender a aprender.
B2	Resolver problemas de forma efectiva.
B3	Aplicar un pensamento crítico, lóxico e creativo.
B4	Traballar de forma autónoma con iniciativa.
B5	Traballar de forma colaboradora.
B8	Actitude orientada ao traballo persoal intenso.
B9	Capacidade de integrarse en grupo de traballo.
B10	Actitude orientada á análise.
B11	Actitude creativa.
B12	Capacidade para encontrar e manexar a información.
B13	Capacidade de comunicación oral e escrita.
B14	Manexo de sistemas asistidos por ordenador.
B15	Concepción espacial.
B16	Fixar obxectivos e tomar decisións.
B17	Analizar e descompoñer procesos.
B18	Capacidade de abstracción, comprensión e simplificación de problemas complexos.
B19	Motivar ao grupo de traballo.
B20	Capacidade de negociación.
B21	Abertos ao cambio.
B22	Vontade de mellora continua.
B23	Positivos fronte a problemas.
C3	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.
C6	Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
C7	Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida.
C8	Valorar a importancia que ten a investigación, a innovación e o desenvolvemento tecnolóxico no avance socioeconómico e cultural da sociedade.

## Learning outcomes



Learning outcomes	Study programme competences / results		
Graphical explanation of various concepts of naval terminology	A5	B1 B2 B3 B4 B5 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 B21 B22 B23	C3 C6 C7 C8
Graphical explanation of various concepts of naval terminology	A5		
Explanation of several draws lines plan based	A5		
Explanation of several draws lines plan based	A5		
Make multiple practical drawing exercises lines plan based	A5		
Make multiple practical drawing exercises lines plan based	A5		

Contents	
Topic	Sub-topic
CONCEPTS OF NAVAL TERMINOLOGY THEORETICAL	Graphical explanation of various concepts of naval terminology
EXPLANATION OF DELINEATION OF LINES PLAN AND OTHER AUXILIARY DRAWS USED AT SHIP DESIGN	Explanation of several draws lines plan based
SHIP CONSTRUCTION OF ANY VESSEL	Make multiple practical drawing exercises lines plan based

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
Introductory activities	A5 B1 B2 B3 B4 B5 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19	10	10	20
Guest lecture / keynote speech	A5	30	25	55
Supervised projects	A5	8	16	24
Objective test	A5	10	10	20
Problem solving	A5	12	12	24



Workshop	A5	1	1	2
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
Introductory activities	LEARNING TERMINOLOGY AND IDENTIFICATION OF PLANS
Guest lecture / keynote speech	STRUCTURAL DEVELOPMENTS AND PLAN DRAWING BODY
Supervised projects	TRACES STRUCTURAL PRACTICES
Objective test	PRACTICAL EXERCISES
Problem solving	PRACTICAL EXERCISES
Workshop	PRACTICAL EXERCISES IN CLASS ON TEACHING EXPLAINED IN THE MASTER CLASS

Personalized attention	
Methodologies	Description
Objective test Guest lecture / keynote speech Problem solving Workshop Supervised projects Introductory activities	PERSONALIZED CARE CONSULTATIONS TO MAKE THE STUDENT

Assessment			
Methodologies	Competencies / Results	Description	Qualification
Objective test	A5	WILL EVALUATE THE SOLUTION OF THE EXAM. WILL BE CONSIDERED FOR THIS EVALUATION POSITIVE OR NEGATIVE PARTICIPATION IN STUDENT PRACTICES	100

Assessment comments
la evaluacion se realizara sobre la prueba objetiva unicamente

Sources of information	
<b>Basic</b>	<ul style="list-style-type: none"> <li>- AENOR (2000). Dibujo técnico. Normas básicas. Madrid:AENOR</li> <li>- MOLERO VERA, J. (2011). AutoCAD 2012 : guía rápida. Barcelona : Inforbooks</li> <li>- NUÑEZ BASAÑEZ J. (1987). Proyecto de formas. Madrid: ETSIN</li> <li>- GEORGE C., MANNING D (1957). La teoría y técnica del proyecto de buques. Boston: Massachussets Institute of Technology</li> <li>- JUNCO-OCAMPO, F. (2002). Dibujo Naval. Ferrol : Escola Politécnica Superior</li> <li>- CRUCELAEGUI CORVINOS, A. (1985). Geometría y representación de carenas: diseño de formas asistido por ordenador. Madrid: ETSIN</li> </ul>
<b>Complementary</b>	

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

&lt;p&gt; Se recomienda la asistencia a las clases teóricas y prácticas.&lt;/p&gt;&lt;p&gt;La realización de las prácticas es obligatoria y no se evaluará la prueba objetiva sin la realización correcta de las mismas &lt;/p&gt;

(\*)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.