



Teaching Guide

Identifying Data					2023/24
Subject (*)	Auxiliary Systems for Ships	Code	631G03027		
Study programme	Grao en Máquinas Navais				
Descriptors					
Cycle	Period	Year	Type	Credits	
Graduate	2nd four-month period	Third	Optional	6	
Language	SpanishGalicianEnglish				
Teaching method	Face-to-face				
Prerequisites					
Department	Ciencias da Navegación e Enxeñaría Mariña				
Coordinador	Bouzon Otero, Rebeca	E-mail	rebeca.bouzon@udc.es		
Lecturers	Bouzon Otero, Rebeca Garcia Galego, Jose Ramon	E-mail	rebeca.bouzon@udc.es jose.ramon.garcia@udc.es		
Web					
General description					

Study programme competences / results

Code	Study programme competences / results
A1	CE01 - Realizar unha garda de máquinas segura
A3	CE03 - Facer funcionar os sistemas de bombeo de combustible, lubricación, lastre e doutro tipo e os sistemas de control correspondentes.
A6	CE06 - Mantemento e reparación das máquinas e o equipo de a bordo.
A9	CE09 - Emprego do inglés escrito e falado.
A12	CE12 - Garantir o cumprimento das prescricións sobre prevención da contaminación.
A81	CE81 - Coñecer o funcionamento e operación dos equipos e sistemas auxiliares instalados en buques e instalacións marítimas.
A87	CE87 - Realizar operacións de explotación óptima das instalacións do buque e marítimas e industriais.
A89	CE89 - Poñer en marcha e operar novas instalacións en buques, instalacións marítimas e industriais.
A91	CE91 - Redactar e interpretar documentación técnica.
A93	CE93 - Interpretar especificacións, regulamentos e normas de obrigado cumprimento.
A99	CE99 - Ter a capacidade para exercer como Oficial de Máquinas da Mariña Mercante, unha vez superados os requisitos esixidos pola Administración Marítima.
B2	CB2 - Aplicar os coñecementos no seu traballo ou vocación dunha forma profesional e posuír competencias demostrables por medio da elaboración e defensa de argumentos e resolución de problemas dentro da área dos seus estudos
B4	CB4 - Poder transmitir información, ideas, problemas e solucións a un público tanto especializado como non especializado.
B6	CG01 - Capacidade para xestionar os propios coñecementos e utilizar de forma eficiente técnicas de traballo intelectual.
B7	CG02 - Resolver problemas de forma efectiva.
B8	CG03 - Comunicarse de maneira efectiva nunha contorna de traballo.
B9	CG04 - Traballar de forma autónoma con iniciativa.
B11	CG06 - Comportarse con ética e responsabilidade social como cidadán e como profesional.
B14	CG09 - Comunicar por escrito e oralmente os coñecementos procedentes da linguaxe científica.
B15	CG10 - Capacidade para resolver problemas con iniciativa, toma de decisións, creatividade, razoamento crítico e de comunicar e transmitir coñecementos habilidades e destrezas.
B16	CG11 - Valorar criticamente o coñecemento, a tecnoloxía e a información dispoñible para resolver os problemas cos que deben enfrontarse.
B17	CG12 - Asumir como profesional e cidadán a importancia da aprendizaxe ao longo da vida.
C1	CT01 - Expresarse correctamente, tanto de forma oral como escrita, nas linguas oficiais da comunidade autónoma.
C4	CT04 - Desenvolverse para o exercicio dunha cidadanía respectuosa coa cultura democrática, os dereitos humanos e a perspectiva de xénero.



Learning outcomes			
Learning outcomes	Study programme competences / results		
Know the different circuits that make up the systems of a ship, failures, breakdowns and their solution.	A3 A6 A81 A87 A89	B2 B4 B6 B9 B14 B15 B16 B17	C1
Know and apply the regulations relating to the auxiliary systems of the ship.	A9 A12 A91 A93	B11	C4
Carrying out a safe watchkeeping	A1 A99	B7 B8	

Contents	
Topic	Sub-topic
SHIP AUXILIARY SYSTEMS	<ul style="list-style-type: none"> - Steam system and condensate recovery (clean purges and dirty purges) - Fuel system. - Lubrication system. - Cooling system (fresh and salt water). - Compressed air system. - Bilge watwe system. - Fire protection system. - Ballast system. - Carrying out a safe watchkeeping

Planning				
Methodologies / tests	Competencies / Results	Teaching hours (in-person & virtual)	Student?s personal work hours	Total hours
ICT practicals	A1 A9 A87 A89 B7 B9	8	12	20
Guest lecture / keynote speech	B2 B4 B8 B11 C4	40	80	120
Objective test	A3 A6 A12 A81 A91 A93 A99 B6 B14 B15 B16 B17 C1	6	0	6
Personalized attention		4	0	4

(*)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	Simulators
Guest lecture / keynote speech	Exposure of the contents
Objective test	Demonstration of the acquired knowledge



Personalized attention

Methodologies	Description
Guest lecture / keynote speech	Resolution of doubts

Assessment

Methodologies	Competencies / Results	Description	Qualification
Objective test	A3 A6 A12 A81 A91 A93 A99 B6 B14 B15 B16 B17 C1	Realización dunha proba para comprobar os coñecementos adquiridos.	80
ICT practicals	A1 A9 A87 A89 B7 B9	Empleo de simuladores	20

Assessment comments

<p>.- The objective test will be carried out on the official dates. It will be necessary to reach a 4 in the written test to add the practices..- "The fraudulent performance of the tests or evaluation activities, once verified, will directly imply the qualification of failure in the call in which it is committed: the student will be qualified with "suspense" (numerical grade 0) in the corresponding call of the academic year, whether the offense is committed on the first opportunity or on the second. For this, their qualification will be modified in the first opportunity record, if necessary."</p> <p>.- The evaluation criteria contemplated in tables A-III/1 and A-III/3 of the STCW Code and included in the Quality Assurance System, will be taken into account when designing and carrying out the evaluation..- Students with recognition of part-time dedication and academic exemption from attendance, as established in the "RULE THAT REGULATES THE REGIME OF DEDICATION TO THE STUDY OF UNDERGRADUATE STUDENTS AT UDC (Articles 2.3; 3.b; 4.3 and 7.5) (05/04/2017), they will have the right to take an objective test with the possibility of obtaining 100% grade on the dates of the official exams.</p>
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Sources of information

Basic	
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

(*)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.