



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 | |
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| Web | | | | |
| General description | | | | |

Study programme competences

| Code | Study programme competences |
|------|---|
| 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 | | |
| 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

.- 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."

.- 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.

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.