



Teaching Guide

| Identifying Data | | | | | 2024/25 |
|---------------------|--|--------|--|-----------|---------|
| Subject (*) | BRM & ISM & ISPS | | Code | 631G01376 | |
| Study programme | Grao en Náutica e Transporte Marítimo | | | | |
| Descriptors | | | | | |
| Cycle | Period | Year | Type | Credits | |
| Graduate | 2nd four-month period | Third | Optional | 6 | |
| Language | Spanish | | | | |
| Teaching method | Face-to-face | | | | |
| Prerequisites | | | | | |
| Department | Ciencias da Navegación e Enxeñaría Mariña | | | | |
| Coordinador | Campa Portela, Rosa Mary de la | E-mail | rosa.mary.campa@udc.es | | |
| Lecturers | Campa Portela, Rosa Mary de la Troya Calatayud, Jose Joaquin de | E-mail | rosa.mary.campa@udc.es joaquin.troya@udc.es | | |
| Web | | | | | |
| General description | <p>The objectives of the course are:</p> <ul style="list-style-type: none"> - Acquire the necessary knowledge for the correct application of the International Safety Management Code. - Likewise, the principles for teamwork and management of human resources on board will be studied in depth. - On the other hand, the contents necessary to obtain the Basic Training Certificate on ISPS Code will be discussed. - Finally, the basic principles for crowd and crisis management in passenger ships will be studied. | | | | |

Study programme competences / results

| Code | Study programme competences / results |
|------|--|
| B33 | RA11H-Develop both individual and group work |
| B40 | RA27H?Use of IMO Standard Phrases for maritime communications, and use of written and spoken English. |
| B45 | RA38H?Applying leadership and teamwork qualities |
| B49 | RA44H?Establishing on-call duty systems and procedures |
| B57 | RA58H?Using leadership and management qualities |
| B79 | RA80H?Observe safe working practices. |
| B80 | RA81H?Contribute to effective communications on board the ship. |
| B81 | RA82H?Contribute to good human relations on board the ship. |
| B82 | RA83H?Understand and take the necessary measures to manage fatigue. |
| B93 | RA96H?Contribute to increased maritime security by raising awareness. |
| B94 | RA97H?Recognise protection threats. |
| B95 | RA98H?Understand the need for and methods of maintaining awareness and vigilance in the area of protection. |
| B96 | RA99H?Maintain the conditions set out in a ship security plan. |
| B97 | RA100H?Recognise protection risks and threats. |
| B98 | RA101H?Conduct regular security inspections of the ship. |
| B99 | RA102H?Proper use of equipment and protective systems, if any. |
| B101 | RA104H?Assisting passengers on their way to assembly and embarkation stations |
| B103 | RA106H?Optimising the use of resources |
| C15 | RA17X-Communicating effectively in a work environment. |
| C19 | RA22X?Maintaining a safe navigational watch |
| C27 | RA37X?Monitoring compliance with legislative requirements |
| C28 | RA39X?Contributing to the safety of personnel and the vessel |
| C30 | RA48X?Take action in case of navigational emergencies |
| C34 | RA55X?Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea, maritime security and protection of the marine environment. |
| C35 | RA56X?Maintaining the safety and security of the ship, crew and passengers, and the proper functioning of life-saving, fire-fighting and other safety systems |



| | |
|-----|---|
| C38 | RA107X?Directing emergency intervention |
| C39 | RA108X?Directing passengers and other staff members in emergency situations |

| Learning outcomes | | |
|--|---------------------------------------|-----|
| Learning outcomes | Study programme competences / results | |
| RA11H-Develop both individual and group work | B33 | |
| RA27H- Use of IMO Standard Phrases for maritime communications, and use of written and spoken English. | B40 | |
| RA38H-Applying leadership and teamwork qualities | B45 | |
| RA44H-Establishing on-call duty systems and procedures | B49 | |
| RA58H-Using leadership and management qualities | B57 | |
| RA80H-Observe safe working practices | B79 | |
| RA81H-Contribute to effective communications on board the ship | B80 | |
| RA82H-Contribute to good human relations on board the ship | B81 | |
| RA83H-Understand and take the necessary measures to manage fatigue. | B82 | |
| RA96H-Contribute to increased maritime security by raising awareness. | B93 | |
| RA97H-Recognise protection threats. | B94 | |
| RA98H-Understand the need for and methods of maintaining awareness and vigilance in the area of protection | B95 | |
| RA99H-Maintain the conditions set out in a ship security plan. | B96 | |
| RA100H-Recognise protection risks and threats. | B97 | |
| RA101H-Conduct regular security inspections of the ship. | B98 | |
| RA102H-Proper use of equipment and protective systems, if any. | B99 | |
| RA104H-Assisting passengers on their way to assembly and embarkation stations | B101 | |
| RA106H-Optimising the use of resources | B103 | |
| RA17X-Communicating effectively in a work environment. | | C15 |
| RA22X-Maintaining a safe navigational watch | | C19 |
| RA37X-Monitoring compliance with legislative requirements | | C27 |
| RA39X-Contributing to the safety of personnel and the vessel | | C28 |
| RA48X-Take action in case of navigational emergencies | | C30 |
| RA55X-Monitor and control compliance with legislative requirements and measures to ensure safety of life at sea, maritime security and protection of the marine environment. | | C34 |
| RA56X-Maintaining the safety and security of the ship, crew and passengers, and the proper functioning of life-saving, fire-fighting and other safety systems | | C35 |
| RA107X-Directing emergency intervention | | C38 |
| RA108X-Directing passengers and other staff members in emergency situations | | C39 |

| Contents | |
|----------------------|--|
| Topic | Sub-topic |
| Introductory remarks | Introduction to IMO and ILO. Safety and security prevention and protection. ISM Code and ISPS Code. Ship safety responsibilities. BTM and BRM |



| | |
|----------|---|
| ISM Code | <p>ISM Code: definition, structure, safety policy, ship-owner communication, captain responsibilities. Master authority and leadership.</p> <p>ISM Resources and personnel, human factors- human error. Team work, communication, cultural awareness.</p> <p>ISM Code: Preventive maintenance</p> <p>ISM Code: Procedures (operation, emergency, non-conformities, accident report and accident investigation). Work organization.</p> <p>ISM Code: Company verification and certification.</p> |
| BRM | <p>Introduction to on board resources management</p> <p>Human factor, human element and human error</p> <p>Work organization on board. Fatigue and stress management</p> <p>Communication techniques</p> <p>Teamwork</p> <p>Leadership</p> <p>Decision making</p> <p>Crisis and crowd management</p> |
| ISPS | <p>Introduction to maritime protection.</p> <p>Applicable regulations.</p> <p>Ship Security Plan (SSP).</p> <p>Detection of risks and threats for protection</p> <p>Carrying out inspections.</p> <p>Access control.</p> <p>Training, exercises and protection drills.</p> <p>Use of equipment and protection systems.</p> |

| Planning | | | | |
|---------------------------------|---|--------------------------------------|-------------------------------|-------------|
| Methodologies / tests | Competencies / Results | Teaching hours (in-person & virtual) | Student?s personal work hours | Total hours |
| Collaborative learning | B33 B45 B49 B57 B79 B80 B81 B82 B101 B103 C15 C19 C27 C28 C30 C34 C35 C38 C39 | 24 | 48 | 72 |
| Online forum | B45 B57 B81 B82 B101 B103 C28 C35 C38 C39 | 5 | 20 | 25 |
| ICT practicals | B33 B40 B45 B49 B57 B79 B80 B81 B82 B93 B94 B95 B96 B97 B98 B99 B101 B103 C15 C19 C27 C28 C30 C34 C35 C38 C39 | 5 | 20 | 25 |
| Mixed objective/subjective test | B33 B40 B45 B49 B57 B79 B80 B81 B82 B93 B94 B95 B96 B97 B98 B99 B101 B103 C15 C19 C27 C28 C30 C34 C35 C38 C39 | 3 | 0 | 3 |



| | | | | |
|--------------------------------|--|----|---|----|
| Guest lecture / keynote speech | B45 B49 B57 B79 B80 B81 B82 B93 B94 B95 B96 B97 B98 B99 B101 B103 C19 C27 C28 C30 C34 C35 C38 C39 | 20 | 0 | 20 |
| 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 |
| Collaborative learning | Guided teaching-learning procedures (overseen in person and/or using ICT methods) based on organisation of class into small groups in which students work together to solve tasks assigned by teacher, with aim of optimising their learning experience and that of other members of group. |
| Online forum | Informal discussion space for students to exchange ideas concerning specific problem or topic. Interaction takes place in online learning environment using asynchronous communication tools |
| ICT practicals | Practice-based learning method for theoretical subject content using ICT resources (demonstrations, simulations, etc.) |
| Mixed objective/subjective test | Mixed test consisting of essay-type and objective test questions. Essay section consists of open (extended answer) questions; objective test may contain multiple-choice, ordering and sequencing, short answer, binary, completion and/or multiple-matching questions. |
| Guest lecture / keynote speech | Oral presentation (using audiovisual material and student interaction) designed to transmit knowledge and encourage learning |

| Personalized attention | |
|--|---|
| Methodologies | Description |
| Online forum ICT practicals Collaborative learning | As per teachers' instructions and students' needs |

| Assessment | | | |
|------------------------|---|--|---------------|
| Methodologies | Competencies / Results | Description | Qualification |
| Online forum | B45 B57 B81 B82 B101 B103 C28 C35 C38 C39 | For semestral assessment it will be necessary to carry out 80% of the activities proposed in this section. The mark obtained in this section will be added once the mixed test has been passed. | 5 |
| ICT practicals | B33 B40 B45 B49 B57 B79 B80 B81 B82 B93 B94 B95 B96 B97 B98 B99 B101 B103 C15 C19 C27 C28 C30 C34 C35 C38 C39 | For semestral assessment it will be necessary to carry out 80% of the activities proposed in this section. For final assessment it will be necessary to carry out 100% of the activities proposed in this section, but they will not be part of the final mark. The mark obtained in this section will be added once the mixed test has been passed. | 15 |
| Collaborative learning | B33 B45 B49 B57 B79 B80 B81 B82 B101 B103 C15 C19 C27 C28 C30 C34 C35 C38 C39 | For semestral assessment it will be necessary to carry out 80% of the activities proposed in this section. The mark obtained in this section will be added once the mixed test has been passed. | 10 |



| | | | |
|---------------------------------|---|---|----|
| Mixed objective/subjective test | B33 B40 B45 B49 B57 B79 B80 B81 B82 B93 B94 B95 B96 B97 B98 B99 B101 B103 C15 C19 C27 C28 C30 C34 C35 C38 C39 | Face-to-face test. Each part of the subject (ISM; BTM; ISPS) will be tested independently It is essential to pass each of the tests to pass the subject (50% of the score assigned to each part). The percentage of the note will be distributed correlatively to the weight of each part in the matter: ISM: 30% BTM: 30% ISPS: 10% This section will be 100% of the mark for students without semestral assessment. In order to encourage the use of the English language in this subject, 0.25 extra points will be awarded in each part to those students who choose to take their assessment tests in that language. These points will be added once the subject is passed. | 70 |
|---------------------------------|---|---|----|

Assessment comments

Students with part-time enrollment and academic grant of attendance exemption, as established by the "NORMA QUE REGULA EL RÉGIMEN DE DEDICACIÓN AL ESTUDIO DE LOS ESTUDANTES DE GRADO Y MASTER EN LA UDC (Arts. 2.3; 3.b; 4.3 and 7.5) (05/04/2017) may take the mid-term exams, if any, without having to attend 80% of the face-to-face classes, as long as the professors are duly informed at the beginning of the course. Regardless of the foregoing, the professors may assign these students with different assignments/ problems throughout the course to be presented during tutorials, using the TEAMS system if appropriate in the teacher's opinion.

The fraudulent completion of exams or assessment activities, once confirmed, will result directly in a failing grade in the respective exam session: the student will be graded as "fail" (numerical grade of 0) in the corresponding academic year's exam session, whether the misconduct occurs in the first opportunity or the second. In this regard, their grade will be modified in the first opportunity's record, if necessary.

The assessment criteria reflected on table A-II/1 of the STCW Code, and also reflected in the Quality System, are taken into account to design and perform the assessment.

Sources of information



| | |
|----------------------|---|
| Basic | <ul style="list-style-type: none"> - OMI (). Código internacional de gestión de la seguridad marítima. - OMI (). Código internacional para la protección de los buques y las instalaciones portuarias. - David B. Moskoff (Captain), Sean P. Tortora (2021). Study Guide for Bridge Resource Management. Red Penguin Books - Swift, A. J; Bailey, T. J (2004). Bridge Team Management: A Practical Guide. Nautical Institute - Nautical Institute (2005). Bridge Resource Management . Nautical Institute - Marí Sagarra, Ricard.; Librán, Álvaro (2003). Seguridad pública en buques de pasaje. Politext - The Nautical Institute (1993). Accident and Loss prevention at sea. Nautical Institute - Sagen y Mitchell (2002). Safety and health at sea. Witherbys Publishing - ICS & ISF (1996). Guidelines on the application of the IMO ISM Code. ICS & IFS - Kidman & Anderson (2002). A seafarers guide to ISM. North of England P&I Association - Chauvel (1997). Managing safety and quality in shipping. Nautical Institute - Chengi Kuo (1998). Managing Ship Safety. LLP Publishing - Anderson (1998). ISM Code : A practical guide to the legal and insurance implications. LLP Publishing - The Nautical Institute (1999). Managing risk in shipping. Nautical Institute - The Nautical Institute (1991). The management of safety in shipping. Nautical Institute - Bull (2020). Bridge Watchkeeping. Nautical Institute - WEitrit & Neumann (2011). Human Resources and Crew Resource Management. Nautical Institute - The Nautical Institute (2000). Command. Nautical Institute - Morrison (1997). Competent crews = safer ships. WMU - Jiangang Fei (2018). Managing human resources in the shipping industry. Routledge - OMI (2014). Model Course 1.39: Leadership and teamwork. OMI - OMI (2000). Model Course 1.21: Personal Safety and Social Responsibilities. OMI - Goleman (1995). Inteligencia Emocional. Kairós - Goleman (1998). Inteligencia Emocional en la empresa. Conecta - Binay Singh (2021). Soft Skills for seafarers. TWAGAA International - Sagarra (2006). El Código PBIP. Ediciones UPC - OMI (2003). Model Course 3.19: Ship Security Officer. OMI - OMI (2011). Model Course 3.23: Actions to be taken to prevent acts of piracy and armed robbery. OMI - OMI (2021). Guide to maritime security and the ISPS Code. OMI - OMI (2012). Model Course 3.26: Security Training for seafarers with designated security duties. OMI |
| 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.