SUBJECT TEACHING GUIDE

M1479 - IMS Applied to the Planning and Control of Navegation

Master's Degree in Nautical Engineering and Maritime Management

Academic year 2020-2021

1. IDENTIFYING DATA					
Degree	Master's Degree in Nautical Engineering and Maritime Management			Type and Year	Compulsory. Year 1
Faculty	School of Maritime Engineering				
Discipline	Planning and Control of Navegation				
Course unit title and code	M1479 - IMS Applied to the Planning and Control of Navegation				
Number of ECTS credits allocated	6	Term	Semester based (2)		
Web					
Language of instruction	Spanish	English Friendly	No	Mode of delivery	Combination of face-to-face and online training

Department	DPTO. CIENCIAS Y TECNICAS DE LA NAVEGACION Y DE LA CONSTRUCCION NAVAL
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Other lecturers	ANDRES RAFAEL ORTEGA PIRIS

3.1 LEARNING OUTCOMES
- Apply and analyze the design and implementation of safe travel plans.
- Apply and analyze the integrated systems of quality management, safety, environmental protection and occupational health for navigation control.
- Develop competencies grouped in the functions required for safe navigation of the ship, at the management level
- Maneuver and govern the vessel in all conditions in accordance with Rule A-II / 2 of the STCW Code 2010 as amended.
- Utilization of leadership and management qualities in accordance with Rule A-II / 2 of the STCW Code 2010 as amended

4. OBJECTIVES
The aim of the course is to train specialists in the organization of bridge teamwork of ships and in the management of navigation planning and control.
Voyage planning according to the general provisions on the organization of maritime traffic
Carry out notifications in accordance with the General Principles to which ship reporting systems and VTS procedures must comply
Acquire a thorough knowledge of the content, application and purpose of the International Regulations to Prevent Collisions, 1972, as amended, as well as the fundamental principles that must be observed in the performance of navigation guards
Know the interrelation and optimal use of all available nautical data to direct navigation.
Knowing how to execute the maneuvering and steering operations of the ship in all conditions.
Know how to organize the management and training of personnel on board ships
Know the relevant international maritime conventions and recommendations, as well as national legislation
Acquire the ability to apply task management and workload on board
Acquire the knowledge and ability to apply effective resource management
Acquire the knowledge and ability to apply decision-making techniques
Know how to elaborate, implement and supervise standardized operational procedures

6. COURSE ORGANIZATION	
CONTENTS	
1	Review of the basic principles to be observed in keeping the navigation watch. Familiarization with the ship bridge. Standard maneuvers. Effect of wind and currents on vessel maneuver. Use of tugs in port.
2	Leadership and direction. Attitude. Cultural perception. Meetings of information and analysis. Challenges and Responses.
3	Effects in shallow water. Bank effect, channel and interaction. Anchoring and mooring to monoboya.
4	Planning and organization of the bridge team. Authority. Duties of the Officer on watch. Management of bridge resources. Workload and stress.
5	Voyage planning and carrying out the trip in normal and emergency situations.

7. ASSESSMENT METHODS AND CRITERIA

Description	Type	Final Eval.	Reassessn	%
Continuous evaluation	Activity evaluation with Virtual Media	No	Yes	50,00
In person examination	Laboratory evaluation	No	No	50,00
TOTAL				100,00

Observations

To be able to surpass the subject will be mandatory the assistance to the practices.

Observations for part-time students

Given the uncertain situation that the social distancing measures established by the health authorities do not allow the development of some teaching activity in the classroom for all enrolled students, a mixed teaching modality will be adopted that combines this classroom teaching with distance teaching. In the same way, tutoring may be replaced by remote tutoring using telematic means.

8. BIBLIOGRAPHY AND TEACHING MATERIALS

BASIC

Norma ISO 9001

Norma ISO 14001

Norma OHSAS 18001

International Safety Management Code de la IMO (Aprobado mediante la Resolución A741[18] y enmendado por el Maritime Safety Comittee Res 104[73]).

Bridge Resources Management/Bridge Team Management Training, RTMSTARCENTER, Dania, Florida (EEUU)

Bridge Procedures Guide. International Chamber of Shipping, Fourth Edition. Londres 2007

Apuntes de Maniobra. Andrés Ortega Piris, Ediciones TGD. ISBN-978-84-96926-38-7. Santander 2009