#### **COURSE OUTLINE**

#### (1) GENERAL

SCHOOL	School of Engineering			
ACADEMIC UNIT	Department of Naval Architecture			
LEVEL OF STUDIES	Undergraduate			
COURSE CODE	NAOME1359		SEMESTER	8°
COURSE TITLE	SAFETY, QUALITY AND ENVIRONMENT IN SHIPPING			
INDEPENDENT TEACHING ACTIVITIES			WEEKLY TEACHING HOURS	CREDITS (ECTS)
Lectures			3	4
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COURSE TYPE		Specialised		
general background, specialbackground, specialised general				
knowledge, skills development				
PREREQUISITE COURSES:				
LANGUAGE OF INSTRUCTION		Greek		
and EXAMINATIONS:				
IS THE COURSE OFFERED TO		Yes (English)		
ERASMUS STUDENTS				
COURSEWEBSITE (URL)		https://eclass.uniwa.gr/courses/NAFP131/		

## (2) COURSE GOALS / LEARNING OUTCOMES

The main goal of the course is to provide students with fundamental knowledge of the shipping regulatory framework on issues related to safety, quality and environmental protection and prevention of marine pollution from ships.

The course highlights the roles of various public and private organisations regulating and influencing the maritime industry. Emphasis is given to the description of international conventions, codes, directives, recommendations, and other regulations adopted by the International Maritime Organization (IMO) and European Union and their implementation at national, European and international level. Moreover, during the course students will develop a basic understanding of the role of classification societies, flag and port states and how shipping companies develop strategies to ensure safe navigation and environmental protection in a global shipping industry, which is constantly changing. It also describes the ISO standards for quality and environmental management that are applied to several shipping companies to upgrade the quality of their services.

## (3) COURSE CONTENT / SYLLABUS

- Introduction to the international regulatory framework of shipping
- The International Maritime Organization (IMO) and international conventions (SOLAS, MARPOL, STCW, etc.)
- Safety and quality management standards and systems in the maritime industry
- International Safety Management (ISM) Code
- The International Ship and Port Facility Security (ISPS) Code Crisis Management
- IMO and European regulations for environmental protection
- Shipping company (fleet, structure, departments, operating organization, ship and company communication, monitoring, inspections)
- Verification, Inspection, Classification societies
- Flag and Port States, Port state controls
- The implementation of ISO standards (ISO 9001, ISO 14001) in shipping

# (4) TEACHING and LEARNING METHODS - EVALUATION

<b>DELIVERY</b> Face-to-face, Distance learning, etc.	Face-to-face		
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	<ul> <li>Use of ICT in teaching.</li> <li>Communication with students and support of learning procedure through the electronic e- class platform.</li> </ul>		
TEACHING METHODS	Activity	Workload (hours)	
The manner and methods of teaching are	Lectures	26	
described in detail.  Lectures, seminars, laboratory practice,	Seminars	26	
fieldwork, study and analysis of bibliography,	Project and essay writing	39	
tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic	Study and analysis of bibliography	26	
creativity, etc.			
The student's study hours for each learning activity are given as well as the hours of non-			
directed study according to the principles of			
the ECTS			
	Course total	117	
STUDENT PERFORMANCE			
EVALUATION	Evaluation:		
Description of the evaluation procedure Language of evaluation, methods of evaluation,	-Written examination including short-answer questions,		
summative or conclusive, multiple choice	multiple choice questionnaires, etc		
questionnaires, short-answer questions, open- ended questions, problem solving, written work,			
essay/report, oral examination, public			
presentation, laboratory work, clinical examination of patient, art interpretation, other			

## (5) ATTACHED BIBLIOGRAPHY

- Tan A. K.J, 2006.Vessel Source Marine Pollution. The Law and Politics of International Regulation, Cambridge University Press, Cambridge.
- Sturmey, SG, 1970. A consideration of the ends and means of national shipping policies. In S.G. Sturmey, Shipping Economics Collected Papers. London: The Macmillan Press.
- Karin Andersson, Selma Brynolf, J. Fredrik Lindgren, Magda Wilewska-Bien, 2016, "Improving Environmental Performance in Marine Transportation" <a href="https://link.springer.com/book/10.1007/978-3-662-49045-7">https://link.springer.com/book/10.1007/978-3-662-49045-7</a>
- Y.H. Venus Lun, Kee-hung Lai, Christina W.Y. Wong, T. C. E. Cheng, 2016, "Green Shipping Management" <a href="https://link.springer.com/book/10.1007/978-3-319-26482-0">https://link.springer.com/book/10.1007/978-3-319-26482-0</a>
- Md Saiful Karim, 2015, "Prevention of Pollution of the Marine Environment from Vessels" <a href="https://link.springer.com/book/10.1007/978-3-319-10608-3#about">https://link.springer.com/book/10.1007/978-3-319-10608-3#about</a>