Basic Course Specification						
Course Title	Course Code	Program on which the course is given				
Maritime Environmental Management	SP 496		Bachelor			
Academic Year	Specialization (units of study)		Pre-Requisites			
2020-2021	Theoretical1hrs ./weekApplication3 hrs./weekCredit2 Cr					
	Overall Course Objectives					
contemporary environmental issues in port & shipping industries and Air quality in port (Port emissions)/Environmental management of the port and chain operations/Noise, Energy management and Impact of climate changes on port infrastructures/Waste management in port: environmental aspects of ports and waste management/Economics of environmental protection.						
Course Learning Outcomes. By successful completion of the course each student will be able to.						
Торіс		Linking to PLOs	Midterm Assessmen	12 th Week Assessmen	Class Activities	Final Exan
1. Determine the benefits of reducing the gas emissions from ships and ports.			\checkmark			
2. Apply energy management aboard vessels and recognize noise sources in ports.			\checkmark		\checkmark	
3. Assess the environmental protection standards and requirements with application.				\checkmark	\checkmark	
4. Identify the appropriate instruments and relevant maritime environmental regulations to control the ship-originated pollution.					\checkmark	
Course Content						
Lec./ Week #	Торіс	Hrs. # Theoretical Applicat		cation		

Maritime Environmental Management

Course Content				
Lec./ Week #	Торіс	Hrs. #	Theoretical	Application
1	 Port Management: Basics Contemporary Environmental Issues in Port and Shipping Industries 	4	1	3
2	 Greenhouse Gases (GHG) Options to comply with the New MARPOL, Annex VI 4 1 3 Regulations 			
3 Options to comply with the New MARPOL, Annex VI Regulations (continue)		4	1	3
4	Emissions tradingCase Study: Port of ROTTERDAM (PoR)	4	1	3
5	Port Infrastructure Adaption to Climate Change	4	1	3

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Course Content				
Lec./ Week #	Торіс	Hrs. #	Theoretical	Application
6	 Environmental Challenge – Global Supply Chain: Daily hinterland transport "system" 	4	1	3
7	 General review 7th Week Exam 	4	1	3
8	Introduction of energy efficiency managementShip operational concerns introduced by the Directive	4	1	3
9	Port Energy Management Plan	4	1	3
10	Study Cases: Port Energy Management PlanNoise Problem	4	1	3
11	Noise causesNoise related regulations	4	1	3
12	 General review 12th Week Exam 	4	1	3
13	Introduction to Waste and Waste ManagementPreventing waste	4	1	3
14	 Preventing waste (continue) Economics of environmental protection	4	1	3
15	Internalizing the ExternalityCorrective Taxes vs. Regulations	4	1	3
16 Final Assessment				
Total Hours			15	45

Teaching & Learning Methods	Facilities Required for Teaching & Learning Methods
Explaining and demonstrating the lesson contents – Delivery of experience - discussing and asking questions to interact with students – solving examples.	White Board& data show

Students Assessment Methods				
Assessment Schedule				
Assessment#1 Week 7				
Assessment#2 Week 12			Week 12	
Assessment#3	Assessment#3 Week 16			
Grading Method				
Midterm Assessment	Written exam		30%	
12 th week Assessment	Written exam		20%	
Class Activities	Participation – Quiz 10%		10%	
Final Exam	Written exam 40%			
Total 100 %				
Assessment criteria shall meet the standards of the STCW 78 convention "as amended"; and in the light of the related IMO model courses				
the nght of the related 1140 model courses.				

Staff Requirements			
Master FG/Ph.D.			
List of References			
Course Notes	Essential Books		
Lecturer notes	 Buhaug, Ø., Corbett, J. J., Endresen, Ø., Eyring, V., Faber, J., Hanayama, S., & Yoshida, K. (2009). Second imoghg study 2009. International Maritime Organization (IMO), London, UK, 24. Cannon, J. S. (2008). U.S. Container Ports and Air Pollution: A Perfect Storm. An Energy Futures, Inc. Study. ESPO (2009). PORT ENVIRONMENT REVIEW 2009. 16 April 2009. ESPO (2005). Review of European Performance in Port Environmental Management. ESPO Environmental Survey 2004. Apr 2005. ESPO (2010). ESPO-EcoPorts Port Environmental Review 2009. Executive Summary. 		
Recommended Books	Periodicals and Publications		
None	 Stenvert, R. and Penfold, A. (2010). <i>Container port</i> strategy – Emerging issues. Ocean Shipping Consultants Ltd. Cariou, P. (2011). Is slow steaming a sustainable means of reducing CO2 emissions from container shipping, <i>Transportation Research Part D</i>, 16, 260-264. Cariou, P. (2011). The effectiveness of a European speed limit versus an international 		
Others (websites, e-booksetc)			
None			
Accreditation Bodies			
*Egyptian Authority for Maritime Safety (EAMS) *European Commission (EC)			

ISO (9001 – 2015) DNV-GL

*Central Evaluation and Accreditation Agency Hanover, Germany (ZEVA)

*Ministry of Education (KSA)

Ministry of Higher Education (Greece)*

*Ministry of Higher Education (Oman)

*Commission for Academic Accreditation (CAA), Ministry of higher Education (UAE)

*University of Plymouth, United Kingdom (dual degree)

Prepared By: Course Coordinator

Reviewed By: Head of Department

H. Elsayad

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M. Nassar Date:

November 2020