Course Title	Environmental Management & Safety in Shipping				
Course Code	SOM 003				
Course Type	Lectures				
Level	Postgraduate				
Year / Semester	1st / 1st				
Teacher's Name	Dr. Theo Panayotou				
ECTS	10	Lecture hours (total)	10 hours	Laboratory hours (total)	6 hours
Course Purpose and Objectives	• To provide a good understanding of the relevant issues regarding environmental and safety regulations and the implications for shipowners and ship operators. • Have a good understanding of the relevant provisions of IMO Conventions for safety and environmental protection. • Appreciate the options open to shipowners in the context of the environmental and safety regulations and the implications theoreof. • Know how to use KPIs to monitor and control environmental and safety performance in shipping. • Know the value of a safety management system dor safe shipping operations • Know what might be included in a safety management systems and its aims and scope • Know the various marine accidents and its effects to the natural environment and the importance of preventing events • Understand the aims, structure and content of the TMSA • Understand the role of IMO in developing international regulation in shipping • Understand the concept of the various maritime safety conventions, such as SOLAS, MARPOL, STCW • Know the importance of operational safety management • Understand the important role of safety management and a safety culture				
Learning Outcomes	Upon completion of this course, students should be able to:				

	• Describe the major issues concerning environmental pollution and environmental protection in the shipping industry • Have a good understanding of the relevant issues regarding the new environmental regulations and the implications for shipowners and ship operators. • Differentiate the relevant provisions of relevant IMO Conventions and the requirements indicated by IMO's MEPC (Marine Environment Protection Committee). • Appreciate the options open to shipowners in the context of the environmental regulations. • Describe the processes and thinking for environmental protection • Describe the role of IMO in developing international safety regulation in shipping • Know the key concepts outlined in such provisions as IMO's SOLAS and the International Safety Management Code • Know the key provisions and scope of the TMSA • Explain how management may use key performance indicators to monitor safety and environmental protection • Identify appropriate KPIs for marine environment monitoring and protection and for safety in ship operations.		
Prerequisites		Required	None
Course Content	• Environmental management in shipping • Environmental management in shipping: IMO's Marine Environment Protection Committee • Environmental management in shipping: KPIs and monitoring • Safety management in shipping • Shipping safety management: SOLAS, the ISM Code and TMSA • Safety management in shipping: KPIs and monitoring		

Teaching Methodology	• Audiovisual lectures • Exercises • Assignments • Extensive readings of the international literature • Live sessions
Bibliography	IMO (2009) Second IMO GHG Study 2009, IMO: London. IMO (2012) Resolution MEPC.63/23, 2012 Guidelines for the development of a ship energy efficiency management plan (SEEMP) International Maritime Organization (IMO), London, UK. IMO (2014) Third IMO GHG study 2014, International Maritime Organization (IMO), London, UK. IMO (2009) Second IMO GHG Study 2009, IMO: London. Lun YHV, Lai KH, Wong W.Y.C., and Cheng T.C.E. (2014) Green shipping practices and firm performance, *Maritime Policy Management*, 41(2), 134-148. Lun, Y.H.V., Lai, K-h., Wong, C.W.Y. and Chen, T.C.E. (2015) *Green Shipping Management*, Springer: Switzerland.
Assessment	2 Assignments: 30% Final Examination: 70%
Language	English