

Quality Assurance Systems

Basic Course Specification								
Course Title		Course Code		Program on which the course is given				
Quality Assurance Systems		SE 495		Bachelor				
Academic Year		Specialization (units of study)		Pre-Requisites				
2020-2021		Theoretical	1 hrs ./week	BS273*				
		Application	3 hrs ./week					
		Credit	2 Cr					
Overall Course Objectives								
On completion of the course, students will recognize the importance of the existing international instruments as the most important means of preventing maritime casualties and pollution of the sea and will understand the Maritime Safety Management systems which oblige companies to address real causes of hazardous situations, non-compliance with mandatory requirements, and non-conformities with the requirements of the ISM Code, and then eliminate the causes. The course covers the legislative framework of the flag state authority, procedures for Port State Control and the status of the relevant instruments.								
Course Learning Outcomes. By successful completion of the course each student will be able to:								
Topic				Linking to PLOs	Midterm Assessment	12 th Week Assessment	Class Activities	Final Exam
1. Identify the importance of the existing international instruments as the most important means of preventing maritime casualties and pollution at sea.				e, f	√	√	√	√
2. Implement the ISM code				e, f	√		√	
3. Understand the Maritime Safety Management systems				e, f	√		√	
4. Understand the legislative frame work of the flag state authority, procedures for Port State Control and the status of the relevant instruments.				e, f		√	√	√
5. Understand the importance of applying a quality management system in the maritime domain.				e, f, g	√	√	√	√
Course Content								
Lec./ Week #	Topic			Hrs. #	Theoretical		Application	
1	Introduction to quality management System. Background, the objectives of the ISM code and its elements			4	1		3	
2	Standard and standardization. Functional requirements for a safety-management system			4	1		3	
3	Quality theorists.			4	1		3	

	Responsibilities & Authority			
4	Introduction to ISO 9001 standard. Development of plans for shipboard operations & emergency situations	4	1	3
5	The ISO 9001 clauses (clause 4 & 5). Reports & analysis of non-conformities	4	1	3
6	The ISO 9001 clauses (clause 6 & 7). Company Documentation, verification, Review & Evaluation	4	1	3
7	General review. 7th Week Exam	4	1	3
8	The ISO 9001 clauses (clause 8). Provision for port State control & Professional profile of PSCOs	4	1	3
9	The ISO 9001 clauses (clause 9). Port State Control Inspection Types	4	1	3
10	The ISO 9001 clauses (clause 10). Contravention and detention	4	1	3
11	Introduction to ISO 14001 standard. Reporting requirements	4	1	3
12	General review 12th Week Exam	4	1	3
13	The ISO 14001 clauses. Review procedures (Report of comments)	4	1	3
14	Introduction to OH&S 18001 standard. Practice for port state control officers conducting inspections	4	1	3
15	The OH&S 18001 clauses. The regional Memoranda of Understanding and agreement on PSC	4	1	3
16	Final Assessment			
Total Hours		60	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		
Assessment#3		Week 16		
Grading Method				

Midterm Assessment	Written exam	30%
12 th week Assessment	Written exam	20%
Class Activities	Participation - Quiz	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.		
Staff Requirements		
Master FG/Ph.D.		
List of References		
Course Notes	Essential Books	
Lecturer notes	Cochran Graig. (2015), ISO 9001:2015 in plain English ABC, Paton Professional., Fifth Ed., USA.	
Recommended Books	Periodicals and Publications	
None	<ul style="list-style-type: none">SOLAS (chapter 9) “International safety management code",sixth edition 2014, ISBN 978-92-801-1594-9IMO Model course 3.09: Port State ControlIMO Resolution A.882 (21): Amendments to the procedures for port state control	
Others (websites, e-books...etc)		
None		

Accreditation Bodies
<p>*Egyptian Authority for Maritime Safety (EAMS)</p> <p>*European Commission (EC)</p> <p>*ISO (9001 – 2015) DNV-GL*</p> <p>*Central Evaluation and Accreditation Agency Hanover, Germany (ZEVA)</p> <p>*Ministry of Education (KSA)</p> <p>Ministry of Higher Education (Greece)*</p> <p>*Ministry of Higher Education (Oman)</p> <p>*Commission for Academic Accreditation (CAA), Ministry of higher Education (UAE)</p> <p>*University of Plymouth, United Kingdom (dual degree)</p>

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Date: November 2020