Ship Handling & Emergency Procedures

Basic Course Specification						
Course Title	Course Code	Program on which the course is given				
Ship Handling & Emergency Procedures	BS 214	Bachelor				
Academic Year	Specialization (units of study)	Pre-Requisites				
2020-2021	Theoretical (2hrs/week) Application (2hrs/week)	BS213				
	Credit 3 Cr Overall Course Objectives					

On completion of this course, students should be competent to carry out the necessary skills for Maintaining a safe navigational watch, and respond to emergencies in a competent manner.

The course based on in the light of IMO model course 7.03, to meet the mandatory requirements for knowledge, understanding and proficiency in Table A-II/1 of STCW as amended, for Function 3: Controlling the Operation of the Ship at the Operational Level.

Course Learning Outcomes. By successful completion of the course each student will be able to:

	Торіс	Linking to PLOs	Midterm Assessment	12 th Week Assessment	Class Activities	Final Exam
1.	Classify the types of propellers, Rudders, controllable and uncontrollable forces that affect the ship's maneuverability	a	√		V	
2.	Define Advance, Transfer, drift angle, mid-ship point and Wheel over point	b	$\sqrt{}$			$\sqrt{}$
3.	3. Describe the effect of Shallow Water on ship's behavior					V
4.	4. Evaluate the necessary information to perform the appropriate maneuver			\checkmark	$\sqrt{}$	$\sqrt{}$
5.	5. Analyze all available information supporting decision making while demonstrating appropriate procedures in case of emergency situation			√	√	√
6.	6. Illustrate the turning circle and its effect on ship handling.					$\sqrt{}$

Course Content

Lec./ Week #	Торіс	Hrs.#	Theoretical	Application
	Introduction &. Controllable & uncontrollable forces in			
1	ship handling.	4	2	2
	Effect of Propeller and Rudder on ship maneuverability		1	
	Effect of Wind and Current on ship's maneuverability			
2	and behavior.	4	2	2
	Effect of shallow water and ship's squat			
3	Mooring and unmooring Port side Alongside.	4	2	2
3	Mooring Starboard side Alongside and RORO mooring	4	2	2
4	The turning circle.			
	Effect of Propeller, Rudder on ship maneuverability	4	2	2
	Practical			
5	Effect of Loading condition, Trim and List on ship's	1	2	2
	turning circle	4	2	2

6	Factors affecting the amount of cable to be used Anchoring procedures- securing anchor at sea.			2	2	
7	7 th Week Exam			2	2	
8	Respond to emergencies (P.O.B different cases (sighted, delayed)			2	2	
9	Contingency plan for response to emergencies			2	2	
10	Muster list and emergency teams Respond to emergencies(in o	ase of fire)	4	2	2	
11	Respond to emergencies(in case of collision)			2	2	
12	P.OB maneuvers (Williamson, Schurn) and 12 th Week Exam	narnow and delayed	4	2	2	
13	Respond to emergencies(in case of abandon ship)			2	2	
14	Respond to emergencies (in case of Search and			2	2	
15	IMO merchant ship search and rescue manual (IAMSAR) Revision of firefighting			2	2	
16	Final Assessment					
		Total Hours		30	30	
Teaching & Learning Methods Facilities			quired for Teaching & Learning Methods			
– Delivery	and demonstrating the lesson conten of experience - discussing and asking o interact with students – solving	• Wille Board	Three Board & Batta Show			
•	Students A	ssessment Methods				
	Assess	ment Schedule				
Assessment#1				eek 7		
	Assessment#2 Assessment#3		Week 12			
		We	eek 16			
	Gra	ling Method				
7th Wee	ek Assessment	Written exam	itten exam 30%			
12 th week Assessment Wri		Written exam	ritten exam 20%		6	
Class Activities Partici		ticipation - Quiz	ipation - Quiz 10%			
Final Exam Wi		Written exam		40%	6	
	,		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.					l in the light	

Staff Requirements					
Master FG/ Ph.D.					
List of References					
Course Notes	Essential Books				
	D.J. House, Seamanship Technique. 3rd Ed. London, Heinemann ISBN 9781138676114 (IAMSAR) Volume III such that trainees will be able to use it effectively when faced with a search and rescue situation. (IMO Sales No. 963)				
Recommended Books	Periodicals and Publications				
Hoyer, H.H. The Behaviour and Handling of Ships (ISBN 0-787033-30602)					
Others (wahsites a-hooks etc)					

Others (websites, e-books...etc)

- International Convention on Standards of Training, Certification and Watch keeping for Seafarers (STCW) 1978, as amended.
- International Convention for the Safety of Life at Sea, 1974, as amended (SOLAS).2020 edition.

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)

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