Course Description Form

Basic Course Specifications					
Course Title	:	**SAR & Salvage Operations**			
Course Code	:	**OS 417**			
Program on which the course is given	:	❒ **Bachelor**	❒ **Diploma**	☐ **Master**	☐**Pre- PhD**
Academic year	:	**23015/2016**			
Specialization (units of study)	:	Theoretical (64. hrs) Simulator (.0. hrs) Practical (..0 hrs) Credit(2H)			
Pre-Requisites	:	None			

Overall Course Objectives

Students successfully completing this course will be able to plan search and rescue operations. Trainees will identify search areas and search patterns. Trainees will also have a basic knowledge of search and rescue on scene coordinator and search mission coordination. Trainees will have a basic knowledge of salvage operations and its legal basics. Trainees will be able to deal with different types of salvage operations.

Intended Learning Outcomes

Knowledge and Understanding

At the end of the course, students should be able to:

A1 Identify the legal Aspects for Search & Rescue operations.
A2 Describe The Search and Rescue system.
A3 Understand Search& Rescue emergency phases and Stages.
A4Identify the international convention of salvage 1989.

Intellectual Skills

At the end of the course, students should be able to:

B1 Identify communications during Search & Rescue.

Professional and Practical skills

At the end of the course, students should be able to:

C1 Describe The legal Aspects for Salvage Operations
C2 Identify the types of salvage
C3 Initial Actions following A Causality

General and Transferable skills

At the end of the course, students should be able to:

D1 Identify Rescue co-ordination centers and On-scene coordinator.
D2 Identify how to creating search and rescue operations Plan

Course content

Lect. #	Topic	Hrs.#	Theoretical	Practical	Simulator
1	The legal Aspects for Search & Rescue operations - The Search and Rescue system	4	4		
2	Search& Rescue emergency phases Search& Rescue operations Stages	4	4		
3	Rescue co-ordination centres and On-scene coordinator Types of Search& Rescue operations	4	4		
4	Search Techniques and Operations Rescue Planning and operations	4	4		
5	Search& Rescue communications	4	4		
6	Exercise for determination of search areas Exercise for selecting suitable search pattern General Exercise for search & rescue operation	4	4		
7	Revision - 7th Week Examination.	4	4		
8	The legal Aspects for Salvage Operations The international convention of salvage 1989	4	4		
9	Classification of salvage operations Types of salvage	4	4		
10	Initial Actions following A Causality	4	4		
11	Salvage operations (Sinking) Salvage operations (Patching)	4	4		
12	Revision 12th week Exam	4	4		
13	Salvage operations (Shoring)	4	4		
14	Salvage operations (Dewatering) Salvage operations (Towing at sea)	4	4		
15	Salvage operations (Refloating stranded ship)	4	4		
16	Final Examination.	4	4		

Teaching & learning methods

Explanation of the lesson contents – discussing and asking questions to interact with students – solving examples and classroom tasks.

Facilities required for Teaching & learning methods

❒ **Projector**	❒ Overhead Slide	❒ **Books**	❒ **Video**	❒ Audio Cassette

Students Assessment Methods

Assessment Schedule

Assessment#1	Week 7
Assessment#1	Week 12
Assessment#1	Week 16

Grading Method

Attendance		
7th Week Examination	❒	**30 Marks**
12th week exam	❒	**20 Marks**
Assignments	❒	**5 Marks**
Projects		
Participation	❒	**2.5 Marks**
Oral Examination	❒	**2.5 Marks**
Final Examination	❒	**40 Marks**
		Total 100%

*Assessment criteria shall meet the standards of the STCW 78 convention "as amended""; and in the light of therelated IMO model courses.

List of References

Course Notes

Description	:	Lecture notes recommended and revised by the course coordinator(s).

Essential Books

Description	:	Fundamentals of Search and Rescue Salvors Handbook

Recommended Books

Description	:	IAMSAR manual “International Aeronautical and Maritime search and rescue manual”, Volume (1), (2) and (3) Commercial Salvage Practice V (1),(2)

Periodicals and publications

Description	:	
Others (websites, e-books…etc.)		
Description	:	Nil

Matrix of Knowledge and Skills of the Educational Course:					
~~University~~/ Academy	: Arab Academy for Science, Technology & Maritime Transport		Course Name		SAR & Salvage Operations
College/ ~~Institute~~	: College of Maritime Transport & Technology		Course Code		OS 417
Department	: Basic Nautical Studies				
Week	**Course Content**	**Knowledge**	**Intellectual Skills**	**Professional Skills**	**General Skills**
1	The legal Aspects for Search & Rescue operations - The Search and Rescue system	A1	B1	C1	D1
2	Search& Rescue emergency phases Search& Rescue operations Stages	A1,2,3		C2	D1,2
3	Rescue co-ordination centres and On-scene coordinator Types of Search& Rescue operations	A1			
4	Search Techniques and Operations Rescue Planning and operations	A4			
5	Search& Rescue communications		B1		
6	Exercise for determination of search areas Exercise for selecting suitable search pattern General Exercise for search & rescue operation	A3			
8	The legal Aspects for Salvage Operations The international convention of salvage 1989	A1	B1	C1	D1
9	Classification of salvage operations Types of salvage	A4		C2	
10	Initial Actions following A Causality			C3	
11	Salvage operations (Sinking) Salvage operations			C1,2	

	(Patching)				
13	Salvage operations (Shoring)			C1,2	
14	Salvage operations (Dewatering) Salvage operations (Towing at sea)			C1,2	
15	Salvage operations (Refloating stranded ship)			C1,2	