Port Management and Operation

Basic Course Specification		
Course Title	**Course Code**	**Program on which the course is given**
Port Management and Operation	SP 473	Bachelor
Academic Year	**Specialization** (units of study)	**Pre-Requisites**
2020-2021	Theoretical 1hrs ./week Application 3 hrs./week Credit 2 Cr	BS 251

Overall Course Objectives

On completion of the course, students will be able to Identify the basic concepts of port functions and operations and recognize the different types of ports and ports generations and to understand the day-to-day activities of safe and cost effective port Operations

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

Topic	Linking to PLOs	Midterm Assessment	12th Week Assessment	Class Activities	Final Exam
1. Identify and recognize the basic concepts of port functions and operations.	f, i	√		√	
2. Recognize the main causes of poor ports' performance and the corrective action that should be taken.	f, i,	√		√	
3. Deploying the proper resources to enhance the overall operational efficiency.	e, f, i		√	√	
4. Understand port management and operations from experties.	f, i, k		√	√	√

Course Content

Lec./ Week #	Topic	Hrs. #	Theoretical	Application
1	Port management & operation – elements to consider.	4	1	3
2	Port management & operation – elements to consider – (Cont.).	4	1	3
3	Port planning at the national & individual port level.	4	1	3
4	Port planning at the terminal level	4	1	3
5	Port functions and core activities – G. cargo terminal.	4	1	3
6	RoRo& container terminals.	4	1	3
7	**7th Week Exam**.	**4**	**1**	**3**
8	Dry & Wet bulk terminals.	4	1	3

9	Operation planning and berth management - G. cargo terminal.	4	1	3
10	RoRo& container terminals operations.	4	1	3
11	Dry bulk terminal operations.	4	1	3
12	Liquid bulk terminal operations **12TH week exam**	**4**	**1**	**3**
13	Port reception facilities – (Waste management strategy).	4	1	3
14	Planning of reception facilities and cost recovery systems.	4	1	3
15	Case study – (Baltic action plan).	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%**
12th 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	• Thomas, R.E. (1968). Stowage. The properties and stowage of cargoes. Glasgow: Brown, Son & Ferguson. • Drewry, (1976). Ports and terminals for large Bulk carriers. Issue no.46. London: Author. • Port Technology International. (1998). Bulk materials handling. Issue no. 7 (pp. 105-136). London: ICG publishing.

	• Agerschou, H. (1983). Planning and design of ports and Marine terminals. Chichester. John Wiley and Sons. • Fairplay (September 2001). Keeping the lid on VOCs. Fairplay. London: Author.
Recommended Books	**Periodicals and Publications**
International Chamber of Shipping (ICS) (Et al.) (1996). International safety guide for oil tankers and terminals (ISGOTT) (4th.ed.). London	IMO model courses.
Others (websites, e-books…etc)	
• Etsibah, S. (2002). Effective cargo and vehicle storage in distribution centers. A case study of CMP. Unpublished dissertation, World Maritime University. Malmo, Sweden. • Bieschke, M.T. (2007). Container terminal operation. Unpublished handouts, World Maritime University, Malmo, Sweden.	

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

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