

(B) Course information in english

General course information:

Course title:	Design and Operation of Sea Transport Systems	Course code:	CE09-T07
Credits:	6	Work load (hours):	130
Course level:	Undergraduate <input checked="" type="checkbox"/>	Graduate <input type="checkbox"/>	
Course type:	Mandatory <input type="checkbox"/>	Selective <input checked="" type="checkbox"/>	
Course category:	Basic <input type="checkbox"/>	Orientation <input checked="" type="checkbox"/>	
Semester:	9 th	Hours per week:	4
Course objectives (capabilities pursued and learning results):			
The objective of the course is to provide knowledge about the design and operation of sea transport systems and particularly in the scientific areas of maritime transport, ship characteristics and fleet structure, world seaborne trade, maritime transport cost, shipbuilding and demolition, port management and operation, port performance indicators, and the European and International maritime transport policy.			
Prerequisites:			
None			

Instructor's data:

Name:	Athanasios Galanis
Level:	PD 407/80
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Other tutors:	-

Specific course information:

Week No.	Course contents	Hours	
		Course attendance	Preparation
1	The importance of Sea Transport in the international commerce.	4	1
2	Sustainable maritime transport systems.	4	1
3	Ship operational characteristics.	4	1
4	Classification, safety control and competence of merchant fleet. Classification societies.	4	1
5	Global merchant marine. Ship's register, flag, state control.	4	1
6	Maritime transport cost.	4	1
7	Shipbuilding and demolition.	4	1
8	Ports in the international transport system.	4	1
9	Port hinterland and foreland.	4	1
10	Port operational and storage capacity. Port management and operations.	4	1
11	Port performance indicators and examples.	4	1
12	European policy on maritime transport.	4	1
13	International policy on maritime transport.	4	1
14	Course review.	4	3

Additional hours for:			
Class project	Examinations	Preparation for examinations	Educational visit
40	3	15	-

Suggested literature:

- Maritime Transport, Giannopoulos, G., Paratiritis, Thessaloniki, 1998 (in Greek).
- Reeds Sea Transport, Operation and Economics, Alderton, M.P., Bloomsbury, 2011.

- Maritime Economics, Stopford, M., Taylor & Francis Ltd, 2008.
- United Nations Conference on Trade and Development, Review of Maritime Transport 2015.
- International Chamber of Shipping, 2016 Annual Review.

Teaching method (select and describe if necessary - weight):		
Teaching	<input checked="" type="checkbox"/>	80%
Seminars	<input type="checkbox"/>%
Demonstrations	<input type="checkbox"/>%
Laboratory	<input type="checkbox"/>%
Exercises	<input checked="" type="checkbox"/>	20%
Visits at facilities	<input type="checkbox"/>%
Other (describe):	<input type="checkbox"/>%
Total		100%

Evaluation method (select)- weight:				
	<i>written</i>	<i>%</i>	<i>Oral</i>	<i>%</i>
Homework	<input type="checkbox"/>		<input type="checkbox"/>	
Class project	<input checked="" type="checkbox"/>	10	<input checked="" type="checkbox"/>	10
Interim examination	<input type="checkbox"/>		<input type="checkbox"/>	
Final examinations	<input checked="" type="checkbox"/>	80	<input type="checkbox"/>	
Other (describe):	<input type="checkbox"/>		<input type="checkbox"/>	