

COURSE OUTLINE

(1) General information

FACULTY/SCHOOL	School of Maritime & Industrial Studies		
DEPARTMENT	Department of Maritime Studies		
LEVEL OF STUDY	Undergraduate		
COURSE UNIT CODE	NA105	SEMESTER	1st
COURSE TITLE	Ship Technology		
INDEPENDENT TEACHING ACTIVITIES <i>in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits</i>		WEEKLY TEACHING HOURS	CREDITS
		4	6
Add rows if necessary. The organization of teaching and the teaching methods used are described in detail under section 4			
COURSE TYPE <i>Background knowledge, Scientific expertise, General Knowledge, Skills Development</i>	Background knowledge		
PREREQUISITE COURSES:	None		
LANGUAGE OF INSTRUCTION:	Greek		
LANGUAGE OF EXAMINATION/ASSESSMENT:			
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	https://eclass.unipi.gr/courses/NAS126/		

(2) LEARNING OUTCOMES

Learning Outcomes

The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult:

APPENDIX A

- Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework.
- Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and

APPENDIX B

- Guidelines for writing Learning Outcomes

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

*Search for, analysis and synthesis of data and information by the use of appropriate technologies,
Adapting to new situations
Decision-making
Individual/Independent work
Group/Team work
Working in an international environment
Working in an interdisciplinary environment
Introduction of innovative research*

*Project planning and management
Respect for diversity and multiculturalism
Environmental awareness
Social, professional and ethical responsibility and sensitivity to gender issues
Critical thinking
Development of free, creative and inductive thinking
.....
(Other.....citizenship, spiritual freedom, social awareness, altruism etc.)
.....*

Decision-making, environmental awareness, critical thinking

(3) COURSE CONTENT

- Basic classification of ships based on:
 - a) cargo types and
 - b) floating/moving technique.
- Ship terminology
- Transverse and longitudinal ship stability
- Loss of ship stability due to cargo shift or water ingress
- Ship loading conditions and load lines
- Ship design and construction
- Design, structural and operational characteristics of basic ship types:
 - general cargo carrier
 - multi-purpose
 - refrigeration ship (reefer)
 - unitized cargo carriers: container ship, barge carrier, Ro-Ro vessel
 - bulk carrier
 - ore carrier
 - combination carrier
 - tanker: crude oil carrier, product carrier, chemical carrier, gas carrier
 - special purpose (Lo-Lo, Flo-Flo)
 - support vessels (dredgers, salvage & rescue boats)
 - passenger ship / cruise ship
 - Ro-Pax vessel

(4) TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY <i>Face-to-face, in-class lecturing, distance teaching and distance learning etc.</i>	In class lecturing
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USE OF INFORMATION AND COMMUNICATION TECHNOLOGY <i>Use of ICT in teaching, Laboratory Education, Communication with students</i>	Use of ICT in teaching (ppt slides & video)	
COURSE DESIGN <i>Description of teaching techniques, practices and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, Internship, Art Workshop, Interactive teaching, Educational visits, projects, Essay writing, Artistic creativity, etc.</i> <i>The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.</i>	Activity/Method	Semester workload
	Lectures	52 hrs
	Non-guided study	98 hrs
STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS <i>Detailed description of the evaluation procedures:</i> <i>Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other.....etc.</i> <i>Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students.</i>		
	Total	150 hours
Written exam		

(5) SUGGESTED BIBLIOGRAPHY:

- «Ναυπηγική Οικονομική», Βλάχος Γεώργιος, 2017.
- «Μελέτη πλοίου - Μεθοδολογίες προμελέτης: τεύχος 1», Παπανικολάου Απόστολος, 2009.