COURSE OUTLINE

(1) General information

FACULTY/SCHOOL	Maritime and Industrial Studies		
DEPARTMENT	Maritime studies		
LEVEL OF STUDY	Undergraduate		
COURSE UNIT CODE	**ΝΑΑΓΓ48**	**SEMESTER**	8th Semester Elective
COURSE TITLE	Ports and Spatial Planning		
INDEPENDENT TEACHING ACTIVITIES *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*		**WEEKLY TEACHNG 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 *Background knowledge, Scientific expertise, General Knowledge, Skills Development*	General Knowledge		
PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION:	English		
LANGUAGE OF EXAMINATION/ASSESSMENT:	English		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	https: //eclass.unipi.gr/courses/ΝΑΑΓΓ48/		

(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*

The course will focus on spatial planning and the role of ports in the planning process. It will present the relation between spatial structure and transportation and describe the emergence and geography of transport networks. Specific topics to be addressed include spatial organization, location, urban form and land use in relation to transport. The port master planning process and determination of port master planned area boundary will be discussed. The course will also present the context, process, benefits, challenges and difficulties of Maritime Spatial Planning (MSP). Emphasis will be given in the role of ports and shipping in MSP. The course will also present the blue economy sectors, describing the current status and recent trends as well as emerging sectors.

Upon completion of the course, the students will be able to describe the relation between transport and space, arrange and classify transport networks based on their type and structure and present the structural components of transport networks. They will be able to present the scales of spatial organization for transportation; present and appraise the location criteria and factors; analyze perspectives on urban spatial structure; assess the role and impact of ports in urban spatial structure. The students will be able to name and describe the main elements of a port master plan and identify and detail the key considerations in determining the port master planned area boundary. They will be able to describe the Maritime Spatial Planning process, detail the steps of the process and explain the benefits, challenges and difficulties of the process. The students will also be able to explain the role of the shipping and ports industry and describe how these industries may contribute to the MSP process.

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,	*Project planning and management*
Adapting to new situations	*Respect for diversity and multiculturalism*
Decision-making	*Environmental awareness*
Individual/Independent work	*Social, professional and ethical responsibility and sensitivity to gender issues*
Group/Team work	*Critical thinking*
Working in an international environment	*Development of free, creative and inductive thinking*
Working in an interdisciplinary environment	*……*
Introduction of innovative research	*(Other…….citizenship, spiritual freedom, social awareness, altruism etc.)*
	…….

- *Search for, analysis and synthesis of data and information by the use of appropriate technologies*
- *Working in an international environment*
- *Working in an interdisciplinary environment*
- *Decision-making*
- *Group/Team work*
- *Project planning and management*
- *Development of free, creative and inductive thinking*

(3) COURSE CONTENT

1. The spatial planning process, transportation and space
2. Emergence of transportation systems
3. Transportation networks
4. Spatial organization, location
5. EU Maritime Policy

6. Maritime Spatial Planning (MSP) process
7. Spatial impact of shipping and port activities
8. Land – Sea interactions in Marine Spatial Planning
9. The need for Integrated Coastal and Ocean Management
10. ICZM definitions and fundamental concepts
11. Linking Integrated Coastal Zone Management to Maritime Spatial Planning
12. Blue growth policy
13. Blue economy, established and emerging blue economy sectors
14. Port Master Planning process
15. Master planned area boundary
16. Case studies

(4) TEACHING METHODS--ASSESSMENT

<table>
<tr><td>MODES OF DELIVERY
Face-to-face, in-class lecturing, distance teaching and distance learning etc.</td><td>Face to face, in-class lecturing</td></tr>
<tr><td>USE OF INFORMATION AND COMMUNICATION TECHNOLOGY
Use of ICT in teaching, Laboratory Education, Communication with students</td><td>- Using the Internet as a source of recent information and in identifying and understanding the trends and developments in the sector.
- Using digital videos with significant visual messages that capture the terminal functions and operations
- Using digital videos featuring expert interviews on topics of interest to the course
- Encourage and support students to create their own videos as part of class assignments and presentations
- Support of the learning process through the e-class platform</td></tr>
<tr><td>COURSE DESIGN
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.

The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.</td><td><table><tr><th>Activity/Method</th><th>Semester workload</th></tr><tr><td>Lectures</td><td>52</td></tr><tr><td>Group Project with technical report and presentation</td><td>30</td></tr><tr><td>Case study analysis</td><td>15</td></tr><tr><td>Independent Study</td><td>53</td></tr><tr><td>Total</td><td>150</td></tr></table></td></tr>
<tr><td>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS
Detailed description of the evaluation procedures:</td><td>• Written final exam (100%) that includes brief answers to questions assessing the knowledge, understanding, and critical thinking of the student (Oral examination where required -</td></tr>
</table>

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. *Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students.*	cases of certified learning difficulties requiring oral examination) **OR** • Term Project (100%) with written report submission, oral presentation and examination

(5) SUGGESTED BIBLIOGRAPHY:

Suggested bibliography:

- Lecture notes based on the following English bibliography
  - Jean-Paul Rodrigue (2017), The Geography of Transport Systems, New York: Routledge, 440 pages, ISBN 978-1138669574 (https://transportgeography.org)
  - Cicin-Sain B., and Knecht R. (1998) Integrated Coastal and Ocean Management – Concpets and Practices. Island Press
  - Zaucha J., and Gee K. (2018) Maritime Spatial Planning – past, present, future. Palgrave Macmillan.
  - Ports Australia (2013), Leading Practice: Port Master Planning – Approaches and Future Opportunities.
  - State of Queensland, Department of State Development (2015), Port Master Planning – Guideline for determining a master planned area boundar
  - European Union (2022), The EU Blue Economy Report, Project Number: 20222588. ISBN: 978-92-76-52444-1

- Lecture notes

All the lecture notes and course related material are posted on the course support electronic platform, categorized by lecture and delivery module

- *Additional Bibliography:*
  - Scientific articles including articles published by the instructor
  - Manuals and reports of relevant research projects

- *Related scientific magazines:*
  - Maritime Policy and Management
  - Maritime Economics and Logistics
  - Transportation Research Part B – Methodological
  - Transportation Research Part E – Logistics and Transportation Review
  - European Transport Research Review

- *Related sites:*

https://www.porttechnology.org/news/list
https://www.lloydslistintelligence.com/
https://ec.europa.eu/maritimeaffairs/policy/maritime_spatial_planning_en