

COURSE OUTLINE

(1) General information

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| FACULTY/SCHOOL | Maritime and Industrial Studies | | |
| DEPARTMENT | Maritime studies | | |
| LEVEL OF STUDY | Undergraduate | | |
| COURSE UNIT CODE | NAAIT48 | SEMESTER | Spring Semester Elective |
| COURSE TITLE | Ports and Spatial Planning | | |
| 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 | |
| <i>Add rows if necessary. The organization of teaching and the teaching methods used are described in detail under section 4</i> | | | |
| COURSE TYPE <i>Background knowledge, Scientific expertise, General Knowledge, Skills Development</i> | 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/NAAIT48/ | | |

(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. The students will be able to name and describe the blue economy sectors. 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 can these industries 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?

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| <i>Search for, analysis and synthesis of data and information by the use of appropriate technologies,</i> | <i>Project planning and management</i> |
| <i>Adapting to new situations</i> | <i>Respect for diversity and multiculturalism</i> |
| <i>Decision-making</i> | <i>Environmental awareness</i> |
| <i>Individual/Independent work</i> | <i>Social, professional and ethical responsibility and sensitivity to gender issues</i> |
| <i>Group/Team work</i> | <i>Critical thinking</i> |
| <i>Working in an international environment</i> | <i>Development of free, creative and inductive thinking</i> |
| <i>Working in an interdisciplinary environment</i> | |
| <i>Introduction of innovative research</i> | <i>(Other.....citizenship, spiritual freedom, social awareness, altruism etc.)</i> |
| | |

- *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. Urban form and land use

6. Port Master Planning process
7. Master planned area boundary
8. Blue economy, established and emerging blue economy sectors
9. Maritime Spatial Planning (MSP) process
10. Spatial impact of shipping and port activities
11. Case studies

(4) TEACHING METHODS--ASSESSMENT

| <p>MODES OF DELIVERY <i>Face-to-face, in-class lecturing, distance teaching and distance learning etc.</i></p> | <p><i>Face to face, in-class lecturing</i></p> | | | | | | | | | | | | | |
|--|--|--------------------------|------------------------|--------------------------|----------|----|--|----|---------------------|----|-------------------|----|--------------|------------|
| <p>USE OF INFORMATION AND COMMUNICATION TECHNOLOGY <i>Use of ICT in teaching, Laboratory Education, Communication with students</i></p> | <ul style="list-style-type: none"> - 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 | | | | | | | | | | | | | |
| <p>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></p> <p><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></p> | <table border="1"> <thead> <tr> <th><i>Activity/Method</i></th> <th><i>Semester workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>45</td> </tr> <tr> <td>Group Project with technical report and presentation</td> <td>20</td> </tr> <tr> <td>Case study analysis</td> <td>15</td> </tr> <tr> <td>Independent Study</td> <td>45</td> </tr> <tr> <td>Total</td> <td>125</td> </tr> </tbody> </table> | | <i>Activity/Method</i> | <i>Semester workload</i> | Lectures | 45 | Group Project with technical report and presentation | 20 | Case study analysis | 15 | Independent Study | 45 | Total | 125 |
| | <i>Activity/Method</i> | <i>Semester workload</i> | | | | | | | | | | | | |
| | Lectures | 45 | | | | | | | | | | | | |
| | Group Project with technical report and presentation | 20 | | | | | | | | | | | | |
| | Case study analysis | 15 | | | | | | | | | | | | |
| | Independent Study | 45 | | | | | | | | | | | | |
| Total | 125 | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| <p>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS <i>Detailed description of the evaluation procedures:</i></p> <p><i>Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended</i></p> | <ul style="list-style-type: none"> • Written final exam (70%) in the Greek language that includes brief answers to questions assessing the knowledge, understanding, and critical thinking of the student (Oral examination where required - cases of certified learning difficulties requiring oral examination) | | | | | | | | | | | | | |

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| <p>questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other.....etc.</p> <p>Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students.</p> | <ul style="list-style-type: none"> • Teamwork (30%) with written report submission, oral presentation and examination |
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(5) SUGGESTED BIBLIOGRAPHY:

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| <p><i>Suggested bibliography:</i></p> <ul style="list-style-type: none"> ▪ Lecture notes based on the following English bibliography <ul style="list-style-type: none"> - Jean-Paul Rodrigue (2017), <i>The Geography of Transport Systems</i>, New York: Routledge, 440 pages, ISBN 978-1138669574 (https://transportgeography.org) - Ports Australia (2013), <i>Leading Practice: Port Master Planning – Approaches and Future Opportunities</i>. - State of Queensland, Department of State Development (2015), <i>Port Master Planning – Guideline for determining a master planned area boundar</i> - European Union (2019), <i>The EU Blue Economy Report</i>, Project Number: 20192797. ISBN: 978-92-76-03967-9 ▪ Lecture notes All the lecture notes and course related material are posted on the course support electronic platform, categorized by lecture and delivery module - <i>Additional Bibliography:</i> <ul style="list-style-type: none"> ▪ Scientific articles including articles published by the instructor ▪ Manuals and reports of relevant research projects - <i>Related scientific magazines:</i> <ul style="list-style-type: none"> ▪ 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 - <i>Related sites:</i> https://www.porttechnology.org/news/list https://www.lloydslistintelligence.com/ https://ec.europa.eu/maritimeaffairs/policy/maritime_spatial_planning_en |
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