



**Master of Science in Shipping**

## **Study Guide**

**2024 – 2025**

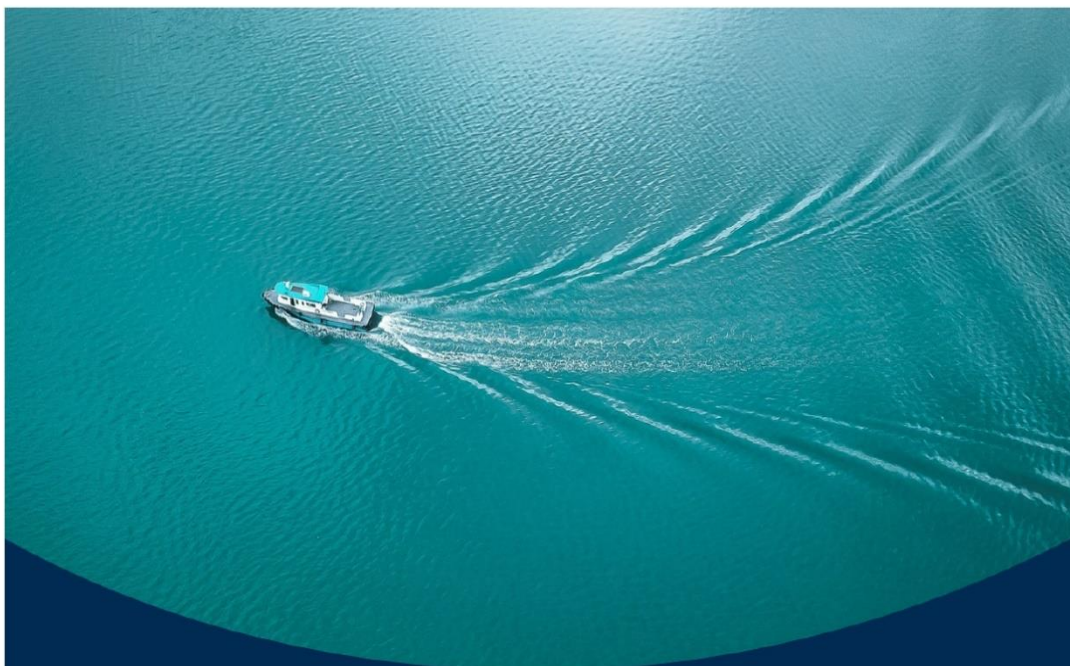


## Contents

Introduction .....	3
Objective and Purpose.....	4
Anticipated Learning Outcomes .....	5
About the Programme .....	6
General Information .....	6
Master Thesis' Preparation Guidelines .....	11
Internship .....	17
Specialization in Port Topics .....	20
Course Descriptions .....	23
Teaching Staff – Resident Faculty .....	34
Campus Facilities.....	43
Contact Information .....	45



## Introduction



The Master of Science in Shipping is the first Postgraduate Program of the Piraeus University Department of Maritime Studies, with more than 20 years of excellence in graduate education and an ever-expanding network of over 1400 alumni. The Program takes an interdisciplinary perspective, delivering a unique Master's Degree with a blend of science and business curriculum and offering theoretical and practical knowledge and skills in the fields of Shipping Management and Operations, Port and Terminal Management and Operations, Maritime Economics, Logistics and Supply Chain. Its modern approach creates an innovative learning community of individuals with diverse background and perspectives.

The program is supported by an Industry Advisory Board comprising leaders from the industry. It offers executive seminars, networking events, experiential learning and executive coaching opportunities. It caters to the needs of working professionals with flexible scheduling and classes for full-time or part-time attendance. A four-month internship opportunity in one of the over 70 collaborating companies and public authorities, with impressive job retention rates. Rewarding excellence through academic scholarships.



Welcome aboard!

Professor Maria Boile  
Program Director





## Objective and Purpose

M.Sc. in 'Shipping' provides theoretical and practical knowledge and skills at a postgraduate level on Maritime and Port Economics, and on Shipping, Ports and Logistics Organization and Management

The Programme aims to:

- Provide advanced multidisciplinary knowledge in interconnected subjects related to the Shipping, Ports, Transport and Logistics industry.
- Conduct in-depth multidisciplinary research on issues related to the maritime sector.
- Cultivate the next generation of competent employees who will contribute to the development of the Shipping, Port, Transport and Logistics industries.
- Provide specialized knowledge at a post-graduate level in the fields of study of the Programme, to address the needs of public and private sector executives.



## Anticipated Learning Outcomes

Anticipated Learning Outcomes' Sections	Anticipated Outcomes Upon successful completion of the Programme, graduates should be able to:
<u>Knowledge</u>	<ul style="list-style-type: none"> <li>• Possess specialized knowledge at a postgraduate level, focusing on the fields of Port Economics Management and Policy, Shipping, Transport and Logistics, and on cutting-edge issues related to these sectors.</li> </ul>
	<ul style="list-style-type: none"> <li>• Demonstrate a critical understanding of the principles, theories, methodologies and practices of economics and management, with emphasis on their application in the areas of the M.Sc. Programme specialization.</li> </ul>
	<ul style="list-style-type: none"> <li>• Possess a critical understanding of issues related to trends and developments in the areas of the M.Sc. Programme specialization.</li> </ul>
<u>Skills</u>	<ul style="list-style-type: none"> <li>• Apply the theories and methodologies of economics and management in research, studies and projects associated to shipping, ports, and logistics.</li> </ul>
	<ul style="list-style-type: none"> <li>• Apply the acquired knowledge and skills to the identification of solutions of complex problems within the areas of the M.Sc. Programme specialization, at research, as well as at a practical level.</li> </ul>
	<ul style="list-style-type: none"> <li>• Evaluate, interpret, and conduct scientific research on issues related to shipping, ports and logistics, and present findings in a clear and organized manner.</li> </ul>
	<ul style="list-style-type: none"> <li>• Analyze and present, in a clear and scientifically sound manner, proposals and solutions to complex problems arising in the areas of the M.Sc. Programme specialization, considering their broader context and environment.</li> </ul>
<u>Competencies</u>	<ul style="list-style-type: none"> <li>• Independently update the existing, and acquire new knowledge and skills, so as to comprehend the dynamic and evolving shipping, ports and logistics environment.</li> </ul>
	<ul style="list-style-type: none"> <li>• Apply specialized knowledge and skills in the evaluation and promotion of good practices in the areas of the M.Sc. Programme specialization.</li> </ul>
	<ul style="list-style-type: none"> <li>• Solve practical problems encountered in the shipping, ports and logistics sectors, using specialized knowledge and skills acquired in the context of the Programme.</li> </ul>
	<ul style="list-style-type: none"> <li>• Organize and manage team activities and work groups.</li> </ul>



## About the Programme

### General Information

Every new training cycle starts at the end of September, or beginning of October, for each academic year.

Full time study' Programme lasts three (3) semesters. Regularly, teaching days are Wednesdays (18:00-21:00), Fridays (18:00-21:00) and Saturdays (10:00-13:00). Respectively, Part time study' Programme lasts five (5) semesters with Fridays (18:00-21:00) and Saturdays (10:00-13:00), as regular teaching days. First two (2) semesters for full time, and four (4) semesters for part time post graduate students, relate to courses' attendance and other Programme' activities. The M.Sc.' final semester pertains to the preparation of a Master Thesis, or the participation in an Internship.

During the first two (2) semesters for full time programme of studies, and four (4) for part time programme of studies, students attend classes and participate in various activities of the Programme. The final semester of studies focuses on the selection of a Specialization in Port Topics, with additional specialized courses, or the preparation of a Master Thesis, or the participation in an Internship.

The total of the M.Sc. Programme of studies' credits (ECTS) amounts to 90.

### Teaching

During semesters, all courses are taught face-to-face in the University of Piraeus' facilities, and attendance is compulsory. In exceptional cases, lectures may also be delivered by means of distance method (online teaching).

Each semester consists of two (2) terms, each of them comprising of eight (8) weeks of lectures, immediately followed by course examinations. When a term is completed, the next one follows promptly, without a holiday intersession.

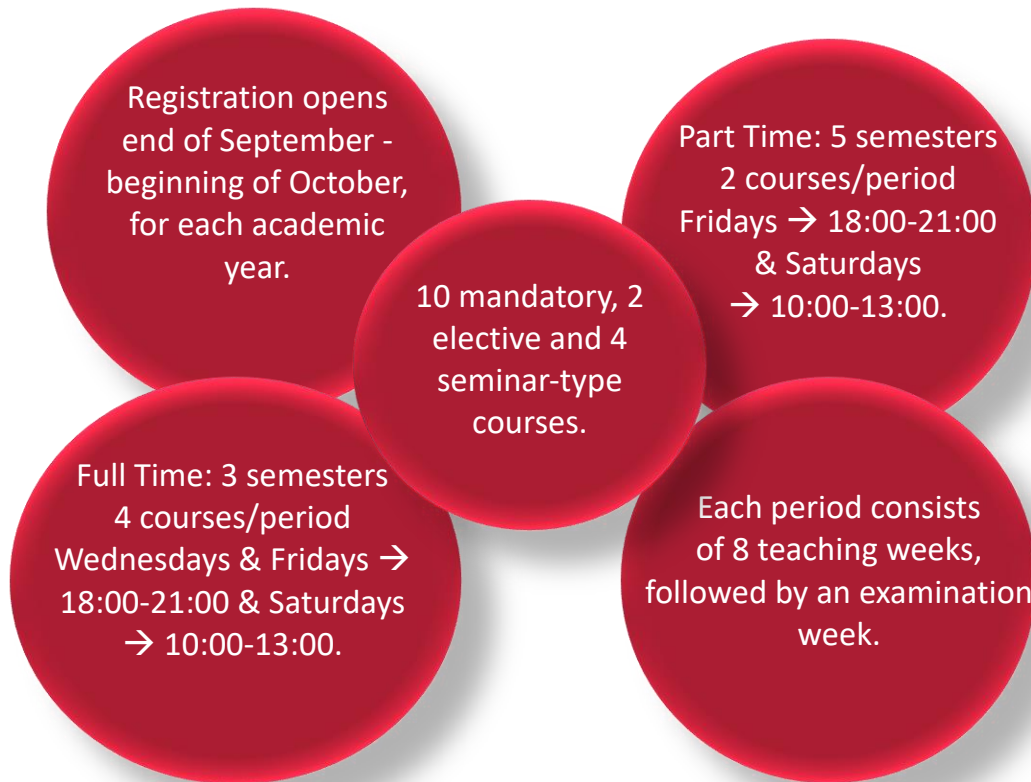
The Programme' holiday breaks coincide with the ones announced in the University of Piraeus academic calendar, as this is displayed every year in the institution's official website <https://www.unipi.gr/>

### Full & Part-Time Programme of Studies

The Programme takes three (3) academic semesters to be completed. Course' teaching is completed in two (2) semesters, including mandatory, elective and seminar type courses. While in the third semester, and based on their overall academic performance, up to forty (40) post graduate students may participate in a funded Internship (with duration of 16 weeks), or select to attend a Specialization in Port Topics with additional specialized courses, or proceed with the preparation of a Master thesis.



Part-time study is an option, with a mandatory attendance of two (2) additional semesters. The option of part-time study is provided for working postgraduate students. Post graduate students falling in this category must submit a proof of working for being employed for at least thirty (30) hours per week, and either an employment contract, or a proof of employment. Selecting the Specialization in Port Topics requires the attendance and successful completion of the total of seven (7) courses in one semester.



SEMESTER A'	
First Term	Second Term
Maritime Economics (ECTS 4)	Shipping Management (ECTS 4)
Ports and Intermodal Transport (ECTS 4)	Port Economics and Policy (ECTS 5)
Ship Technological Efficiency (ECTS 4)	Supply Chain Management (ECTS 4)
Shipping, Energy and Geopolitics (ECTS 3)	Human Resources Management (ECTS 2)



Each academic year is expected to end mid-July, including course' teaching and examinations.

At the end of the fourth term, you will be receiving detailed instructions regarding your participation into an Internship, or the preparation of a Master Thesis, or the selection of a Specialization in Port Topics.

There is a no absence limit on the total teaching hours, per term course.

Third Term	Fourth Term
Marine Insurance Law (ECTS 4)	Chartering (ECTS 5)
Shipping Operations (ECTS 4)	Maritime Tourism (ECTS 2)
Financial Accounting and Shipping Finance (ECTS 5)	<b>(Selection of 2 Courses)</b>
Safety and Security in Shipping Operations (ECTS 2)	Environmental Management in Shipping and Port Operations (ECTS 4)*
	ICT Applications in Shipping, Ports and Logistics (ECTS 4)*
	Maritime Law and Institutions (ECTS 4)*
	International Economics – Maritime Trade (ECTS 4)*





Specialization  
in Port Topics

SEMESTER C'
INTERNSHIP (ECTS 30)
or
MASTER THESIS (ECTS 30)
or
SPECIALIZATION IN PORT TOPICS (ECTS 30)
SEMESTER C' ECTS TOTAL: 30

Total ECTS: 90



SEMESTER C
Specialization in Port Topics
Port Management, Planning and Organization (ECTS 5)
Ports and Spatial Planning (ECTS 5)
Management and Operation of the local Shipping and Port Cluster (ECTS 5)
Management of Port and Terminal Operations (ECTS 5)
Environmental Management at Ports and Coastal Areas (ECTS 4)
Coastal Shipping and Island Transportation (ECTS 3)
Artificial Intelligence in Shipping (ECTS 3)

A subsidized Internship (of 16 weeks) offered up to 40 students, based on their overall academic performance.

A Master Thesis' preparation, related to theoretical or/and industrial topics.

Mandatory registration is made directly by the Secretariat in the online system.



Pertaining to spring semester' elective courses, post graduate students are provided with detailed instructions regarding registration time period and how to register.

Full-time students should register for the two (2) mandatory courses of "Chartering" and "Maritime Tourism", as well as for two (2) out of the four (4) elective courses offered.

During spring semesters, and in order to successfully complete their studies in the M.Sc. in "Shipping", part-time post graduate students must have attended two (2) mandatory ("Chartering" and "Maritime Tourism"), and two (2) out of four (4) elective courses offered. Selection of courses for registration is free, therefore post graduate students are invited to register for any two (2) courses they desire, in each academic year.

## **Master Thesis' Preparation Guidelines**

### *A. General Instructions*

#### 1. Master Thesis' Purpose and Significance

The potential of having a Master Thesis (MA.Th.) prepared, while studying in the MS.c. in 'Shipping', is an essential component of the Programme, aiming to utilize and develop to a greater extent, the knowledge and skills a student acquired while attending the courses of the M.Sc. initial semesters.

The intention of preparing a Master thesis (MA.Th.) is to engage students into an in-depth approach of a certain cutting-edge issue related to the shipping industry. Each thesis must demonstrate an advanced theoretical knowledge, practical skills, critical thinking, an ability to analyze and synthesize problems, as well as a post graduate student's research competence. A thesis may refer to empirical, theoretical, or applied topics and may be carried out in collaboration with a private or public entities occupied with related subjects. The Ma.Th. must be characterized by originality and constitute a work of research nature. The nature of a thesis may be (a) bibliographic/compositional and may focus on collating, reviewing, critically evaluating and synthesizing existing knowledge and information, (b) analytical/calculative and may involve development, improvement or application of methods, techniques and models for the use and processing of laboratory or field' measurement' evidence or data, (c) methodological, utilizing existing knowledge and information coupled with theoretical and methodological approaches to describe and interpret a phenomenon or subject matter, or (d) a combination of all the above.

#### 2. Master Thesis' Assignment Procedure

The procedure for undertaking a Master Thesis occurs in accordance with the M.Sc. Regulation of Studies. A Master Thesis is prepared under the supervision of a Maritime Studies' Department' faculty member, teaching in the M.Sc. (Supervisor), or of a course' lecturer, co-supervising with a faculty member.

At the end of the second (for part-time Programme of studies, fourth) semester of every study cycle, and with the Supervisor's approval, postgraduate students, apply for a Master Thesis, to the Post Graduate Programme' Secretariat. A Master Thesis' application states the proposed title, the Supervisor (or, co-supervisors), the thesis' writing language and an abstract



in the form of a summary for the proposed thesis. If any changes occur in the aforementioned information, the student submits a relevant application to the M.Sc. Secretariat.

It should be noted that the time a Master Thesis is undertaken, the thesis' title is registered by the Secretariat in the system, and accompanies the post graduate student in thesis' preparation, when indicated in the initial page of the Master Thesis' body, as this is submitted at DIONE Institutional Repository, as well as when filling the header attributed to the thesis uploaded. If prior to the thesis' presentation, any changes occur in the Master Thesis' title, Supervisor, language of writing or, members of the three-member committee, then the post graduate student must resubmit an application to be approved by the Programme' Coordinating Committee, to the M.Sc. in 'Shipping' Secretariat, in due time.

A Master Thesis preparation is coming to be during the third (for part-time Programme of studies, during the fifth) semester of studies and equals to thirty (30) credits (ECTS). Having successfully completed with his/her Master Thesis' presentation, the post graduate student is required to submit it in the University of Piraeus Institutional Repository, DIONE (detailed instructions are provided in Dione Guide, «Submission\_guide\_DIONE»).

### *B. Master Thesis' Composition and Writing Instructions*

#### 1. Master Thesis' Writing Language

A Master Thesis may be written in Greek or English. In any event, a Master Thesis contains an extensive abstract both in Greek and English language. Master Thesis' language of writing is defined by the Supervisor's appointment and displayed in the post graduate student's Application Form for a Master Thesis.

#### 2. Master Thesis' Structure

A Master Thesis ought to be structured according to scientific monographs and paper' standards. The structure of a Master Thesis' is described in exact order, as follows:

- Thesis cover/ Title page.
- Authenticity Statement / Copyrights.
- A page whereas the Supervisor and Members of the examination and Supervision Committee (Three-member Committee) are stated.
- Introduction and Acknowledgments (if stated).
- Dedication (if stated).
- Table of Contents (Pages numbered).
- Lists of Tables, Figures, Charts, e.tc.
- Abstract' page, written in Greek and English, up to 200 words, accompanied by keywords.
- Introduction.
- Thesis' main script.
- Results (with relative comments).
- Conclusions.
- Bibliography (Literature Review).
- Annexes (if available).

#### 3. Master Thesis' Extent and Script Presentation



A Master Thesis script fluctuates from 20.000 - 30.000 words, aside from appendices, bibliography, charts, diagrams, e.tc.

A Master Thesis' script presentation requirements are the following:

- Writing a Master Thesis, one must use Text justification, and Times New Roman, black font and size 12. Type space between the lines must be 1.5 mm, while single for footnotes. Footnotes must be limited and numbered as 1, 2, 3, e.tc., also in Times New Roman, black font and size 11.
- Harvard citation system is the one in use, which means reference to 'writer' and 'year', e.g. (Παπαδόπουλος, 1997; Παπαδόπουλος κ.ά., 1997; Papadopoulos, 1997; Papadopoulos, et al, 1997). An analytical report of sources is displayed in Bibliography.
- In case an intact excerpt of a book, or an article is used, this must be placed in a separate paragraph, in quotations, leaving wider page margins from the edge of the page, right and left, also quoting the page number containing the excerpt, e.g. (Papadopoulos, 1996, p. 67).
- According to the aforementioned citation system, whereas Figures, Images and Charts of other origin are used, their source is mentioned in the text, immediately right after.

These requirements do not apply to the Title' page (see below) and to scanned figures, images, and annexes' text, imported in the script.

A Master Thesis' text must follow a continuous numbering, starting from the Introduction page, while ending at the script's last page, including annexes and bibliography. The material stated priorly to a Master Thesis' main script, such as, Authenticity Statement/Copyrights, the page whereas the Supervisor and Members of the examination and Supervision Committee (Three-member Committee) are stated, Introduction and Acknowledgments (if stated, Dedication (if stated), Table of Contents (Pages numbered), List of Tables, Figures, Charts, e.tc, the Abstract page, written in Greek and English, up to 200 words, accompanied by keywords, is displayed exactly by this sequence, right after the page the Master Thesis' title is displayed, using small Latin numbers.

In the event, a Master Thesis is prepared in English, all Thesis' elements (apart from the summary in Greek) must be written in English.

#### 4. Master Thesis' Detailed Presentation Description

4.1 In a Master Thesis' cover/Title' page, from page' top to bottom, and justified in the center, the following must be displayed:

## UNIVERSITY OF PIRAEUS





**(Times New Roman - Bold – 20)**



**DEPARTMENT OF MARITIME STUDIES**

**(Times New Roman - Bold – 20)**

**POST GRADUATE PROGRAMME**

**in 'SHIPPING'**

**(Times New Roman - Bold – 20)**

**Master' Thesis title**

**(Uppercase letters- Times New Roman - Bold – 20)**

Post graduate student' Name and Surname

(Lower letters- Times New Roman - 20)

Master Thesis

(Lower letters- Times New Roman - 14)

Submitted in the Department of Maritime Studies  
as a partial fulfillment of the requirements for the

Master of Science degree in 'Shipping'

(Lower letters- Times New Roman - 12)

Piraeus

(Lower letters- Times New Roman - 14)

October 2024

(Lower letters- Times New Roman - 14)

4.2 When on the Authentication/Copyrights page, the author must state and sign the following text:



«The individual of this Master Thesis’ bears responsibility for determining the fair use of material defined on the basis of the succeeding factors: the purpose and nature of the use (non-commercial, non-profit, educational, research), the nature of the material, which uses (part of the script, tables, figures, images or charts), the percentage and significance of the part used, related to the entire text under copyrights, and the potential consequences of this use in the market, or on the overall value of the text under copyrights».

4.3 When on the Three-Member examinations and Supervision Committee page, the author must state the following text:

«The present Master Thesis was unanimously approved by the Three-Member Examinations and Supervision Committee appointed by the University of Piraeus’ Department of Maritime Studies’ Assembly, in accordance with the M.Sc. in ‘Shipping’ Rules of Procedure

The Members of the Committee are:

- ..... (Supervisor)

- .....

- .....

The approval of a Master Thesis by the Department of Maritime Studies, University of Piraeus does not imply approbation of the author’s opinion».

In the case a Master Thesis selected language of preparation is English, all the aforementioned information ought to be entirely translated in English.

4.4 In the Introduction, a brief reference to the procedure of elaborating a Master Thesis is made, including Acknowledgements towards the individuals, or the institutions that contributed to the M.Th. implementation.

4.5 A Summary in Greek and English (Abstract) is a well-articulated and brief (up to 200 words) description of a Master Thesis’ content, method, and conclusions, of a single page (1) extent. The Greek and English Abstract is accompanied by maximum three (3) to five (5) keywords.

#### 4.6 Main Script

##### ➤ Introduction Content

Introduction makes a detailed analysis on:

(a) The field of work, the objectives, and the purpose of the Master Thesis’ in progress. Particular reference is made on the reflections leading to the topic selected, the individual objectives and research questions or hypotheses under test and inspection, as well as on the justification of the M.Th. scientific (theoretical and/or applied) purpose. (b) The methodology used to approach the thesis’ field of work, as well as data collection, processing and analyzing techniques. (c) The Master Thesis’ structure with a brief reference to the content of every chapter.

##### ➤ Numbering and Formatting of Script Titles

The post graduate student is suggested to use a size 4 to 8 for the majority of chapters, while the ideal quantity for chapter sections amounts to three (3).

Text titles should be right aligned, written in the same font the entire script is written. Numbering and formatting of the text titles appears according to the Introduction chapter example, following:



Introduction - 1 ... (Uppercase letters - Bold)

1.1, 1.2... (Uppercase letters - Underline)

1.1.1, 1.1.2... (Uppercase letters - Italics),

1.1.1.1, 1.1.1.2... (Uppercase)

4.7 Conclusions include composition and discussion on Master Thesis dominating findings. Moreover, and during the Master Thesis' elaboration, objective difficulties that possibly have arisen are noted, directions for future research are provided, in addition to the author's closing critical point of view and conclusions. Conclusions' titles bear the numbering and formatting of Chapter titles (as described in the previous paragraph).

4.8 In Bibliography (Literature Review) the total of sources (books, papers, studies, reports, conference abstracts, statistical bulletins, daily and periodical press, documents provided by institutions, archive records, etc.) used while elaborating on a Master Thesis, is stated. In Bibliography, references of Greek origin are preceded by English literature references, stating authors alphabetically. Works of the same author are listed in chronological order (starting from the older ones, and if published in the same year, noted as a, b, c, etc.). Bibliography must be displayed as follows:

Book (First/Second Edition)	Papadopoulos, A. and Papadopoulos, V. (1993/1994) <i>Shipping and Economy: The Case of Greece</i> , Piraeus: Publisher University of Piraeus
Article in a book (First/Second Edition)	Papadopoulos, G. (1972/1977) 'Pollution and Shipping' at A. Papadopoulos and V. Papadopoulos <i>Shipping and Economy: The Case of Greece</i> , Piraeus: Publisher University of Piraeus
Literature Reference: article in a book, or newspaper, conference proposal	Papadopoulos, A. (1992) 'Subsidized Coastal Shipping', <i>Contemporary Issues</i> , 5 (48), p. 70-7
Literature Reference: text from a website	Papadopoulos, A. (1992) 'Subsidized Coastal Shipping', <a href="http://www.iospress.gr/ios2002/ios20021013a.htm">http://www.iospress.gr/ios2002/ios20021013a.htm</a> , last visited: 15/01/2003 (date)

4.9 In general, Annexes include various elements of secondary or supplementary significance in relation to a Master Thesis itself (e.g. Questionnaires, statistical series, tables, diagrams, charts, etc. not included in the main script). Overall, Annexes' composition and citation follows all the aforementioned specifications pertaining to a Master Thesis' script composition, as an integral part of the M.Th., including ongoing and uninterrupted numbering directly after the M.Th. main script.

Annexes titles have the form of Chapters, numbered as A, B, etc.

In general, post graduate students are advised to avoid the use of elements, such as frames, shading, etc. for decorative purposes and in attempt to produce an aesthetic effect, distracting attention from their Master Thesis content.



During the semester of a Master Thesis' preparation, students are required to participate in seminar lectures delivered on "Research Methodology". These lectures are of compulsory attendance for students working on a Master Thesis and their content concerns the necessary steps for conducting a research project (thesis), as well as the methodology of writing one.

## Internship

Full time students are entitled to an internship of four (4) months, during their third semester of studies, while part time students during their fifth. Throughout this period, students employed in organizations and companies will have the benefit to broaden their work experience (acquiring experience, knowledge, skills, build a network, etc.).

Upon recommendation of the M.Sc. Coordinating Committee, a subsidized Internship will be an option for students selecting to participate in an Internship to complete their studies, while at their third semester, and based on their overall academic performance, up to forty (40) students would be eligible to participate.

Students falling into the category of individuals with disabilities and special needs, should submit their application to participate in an internship, accompanied by the proof required, occupying 5% of the available places in the Department they are registered in, regardless the ranking order. If the number of students falling into the category surpasses 5%, students will be placed together, while those surpassing 5% will be included in the rest of the Department' student force.

To participate in the M.Sc. 'Shipping' Internship program, students' selection criteria are stated as follows:

1. Average grade point average (GPA) of courses, with ten (10) as a maximum, including June' examination period of the current academic year, multiplied by a weighted factor of 0.6.
2. Course Completion Factor (C.C.F.) with one (1) unit as maximum, responding as the fraction of the courses' number (C.N.) in which post graduate students have successfully been examined, including June' examination period of the current academic year, divided by the M.Sc.' total number of courses (T.N.C.), multiplied by a weighted factor of 40%.

For each candidate, the total of grading units, with ten (10) as the perfect score, results from the formula, as described below

$$S = 0.6 \times G.P.A. + 4 \times C.C.F.$$

Having course' registration procedure for the third semester completed students selected to participate in the Internship programme are invited to an information session with the Internship' supervisors. Afterwards, candidate interns are requested to submit a curriculum vitae. Students are offered with the option to select a host organization on their own, provided the organization meets the Programme' requirements and becomes approved by the Internship programme supervising faculty members. In this case, the newly inducted organization, as the rest of the host organizations in collaboration, will be asked to fill a specific cooperation form with the University, after consultation with the responsible administrative personnel. Right after, students' CVs are forwarded to the organizations who already consented to participate in the Programme and had the cooperation form submitted,



who in their turn, will select the candidates they will invite for an interview. At this point, the importance of a detailed curriculum vitae must be stressed.

Internship' grade is calculated based on the activity report submitted by students when Internship is completed, on their evaluation by the host organization and the interview with the Internship programme supervising faculty members. Internship grade counts towards the Diploma' average grade, according to the provisions of Article 8 of the M.Sc. in 'Shipping' Internal Regulation.

The cost of Internship is fully covered by the M.Sc. and upon approval of Maritime Studies' Department Assembly, stipend payments are made after the successful completion of the Internship programme total number of participants. During an internship, interns are not allowed to maintain an employment relationship with the host, or other organization, simultaneously, and they should not be traders, or partners of a legal entity. In addition, any allowances (e.g. unemployment benefits) received by the participants, will be discontinued.

In the event of a selected post graduate student not wishing to participate in the Internship, his/her placing will be allotted to the next student in the ranking order.

#### Completion of Internship:

Concluding with their participation in an internship, post graduate students ought to submit the following documents, completed in full, as these were dully disseminated by the responsible administrative staff:

- The student' Internship Evaluation Form.
- The student' Internship Evaluation Report completed and signed by the supervisor designated for the intern. This document must bear the host organization' stamp. It is the host organization' formal declaration for the completion of Internship.
- An Attendance Book, completed by the Head of the host organization, for the time the post graduate student was employed as an intern.
- A report submitted by the student (up to 2500 words), recording his/her experiences, the knowledge acquired, and the issues resolved during his/her internship, making a special reference to the M.Sc.' courses assisting him/her in a useful manner.
- Certification of an Internship successful completion.

Student' stipend payments are made after the successful completion of the Internship and the obtainment of supporting documentation.

#### Interns' Obligations and Rights

- Internship lasts for four (4) months, and provided the student maintains his/her active status, he/she is entitled to participate in solely one (1) internship cycle. A post





graduate student's academic obligations do not relate to the obligations arising in the context of the internship.

- Students are required to be physically present in the host organizations they are employed as interns, on daily basis, following the host entity's working hours (eight (8) hours per day, five (5) days per week).

- During their internship, students are obliged to comply with all the regulations and laws applicable in the host organization they are employed, as well as to maintain the professional and business confidentiality of all issues related to the organization and come to their knowledge. More specifically and while in the workplace, students are required to follow the host organization's operation hours, safety and work regulations, along with any other regulations applicable to the host organization's personnel.

- Interns are entitled to one (1) to two (2) days leave of absence due to significant reasons (sick leave, course examination' leave), which students ought to support by the required necessary documents. In the event they need to be absent for additional days, it is up to the host organization' decision whether to grant permission for absence.

- The host organization is entitled to terminate the employment of post graduate students without stipend payment, prior to the end of the predetermined internship' period, solely on grounds of a significant reason related to the intern' student. Both the University of Piraeus' Research Centre and the intern student are entitled to terminate the internship without penalty for reasons of their concern, nevertheless they ought to notify the host organization in a timely manner and in written.

- Students' insurance expenses (solely for accidents) and financial compensation are covered by M.Sc. in 'Shipping'.

#### Host Organizations' Obligations and Rights

Firms and organizations hosting interns ought to:

- a. place students in working positions related as much as possible to their field of study.
- b. provide students with the maximum possible (technical) training.
- c. provide students with decent and satisfying working conditions.
- d. assign students to a specific supervisor and field of work, so as to ensure their training as well as their objective and reliable assessment.
- e. grant students with sick leave or permission to participate in examinations, as indicated above.

Firms and organizations hosting interns are entitled to:

- a. employ students for eight (8) hours per day, five (5) days per week in accordance to the hosting entity' working hours.
- b. terminate the cooperation and cease an intern's employment if his/her professional behavior is deemed completely inappropriate, or his/her performance overtly insufficient.



## Specialization in Port Topics

Students are provided with the option to select courses, and in doing so they will acquire selective knowledge and skills assisting them to develop an expertise in a subject module of strategic importance for Greece, Europe and the world, the one of port industry. The selection of Specialization in Port Topics courses' works as an alternative to the selection of either participating in an Internship, or proceeding into preparing a Master Thesis, addressing students seeking to further enhance their theoretical and practical knowledge through an in-depth study of contemporary issues related to the ports' sector.

Port Topics' specialized courses are designed considering science' and labour market current needs, offering students the opportunity to develop a profound understanding of the port sector. This approach provides students with the potential to acquire the practical knowledge and tools to become competitive in the labour market.

While in the third (3<sup>rd</sup>) semester of their studies (fifth [5<sup>th</sup>] for the students attending the part-time programme), students who select Specialization in Port Topics are required to attend a total of seven (7) courses, as priorly mentioned. The teaching of Specialization in Port Topics courses' is offered exclusively in the last semester of studies and consists of two (2) periods within the semester. The way courses are designed meets modern demands, placing emphasis on experiential learning, interaction and analysis of true problems, through case studies, assignments and exercises. Port Topics' specialized courses provide students with advanced knowledge through:

- Scientific research and analysis, thus introducing students to advanced research tools and analysis' techniques, in concert with the Department' laboratories and the use of the specialized equipment they preserve.
- Practical implementation with the use of assignments aiming to encourage students in applying on realistic scenarios the knowledge acquired, ensuring theory is put into practice.
- Group projects linked to real data and business problems, intending to enhance students' cooperation skills.
- Cutting-edge technologies involving digital tools, data analysis and simulators, using virtual and augmented reality.
- Specialized in Port Topics courses are assessed through continuous monitoring and evaluation of the progress attending students have made based on their participation in lectures, assignments and presentations. In addition, students become evaluated through final written examinations and assignments, depending on the course' nature.

## Academic Policies

### Registration Procedure

- Filling a specific registration form (sent by the Secretariat)
- Filling a specific financial information' file (sent by the Secretariat)



- Submitting an English language certified copy (certified either by the respective issuing body, or a lawyer). It is not required to submit a translation of the original certificate.
- Tuition' fees payment for semester A'
- A registration is deemed complete only for candidates who have their outstanding issues settled.

### **Tuition Fees**

Post graduate students proceed into payment of prescribed tuition fees at the beginning of each semester, following a notice delivered by the Secretariat.

#### Full-time students are expected to pay:

- By the day candidates receive an acceptance letter for being included in the Programme, and within a period of ten (10) days, they are obliged to proceed into the payment of € 1.000,00 euro as pre-registration fee.
- End of September, beginning of October € 1.300,00 euro, pertaining to semester A' tuition fees' payoff.
- € 2.300,00 euro at the beginning of semester B'.
- € 2.300,00 euro at the beginning of semester C'.

#### Part-time students are expected to pay:

- By the day candidates receive an acceptance letter for being included in the Programme, and within a time period of ten (10) days, they are obliged to proceed into the payment of € 1.000,00 euro as pre-registration fee.
- End of September, beginning of October € 380,00 euro, pertaining to semester A' tuition fees' payoff.
- € 1.380,00 euro at the beginning of semester B'.
- € 1.380,00 euro at the beginning of semester C'.
- € 1.380,00 euro at the beginning of semester D'.
- € 1.380,00 euro at the beginning of semester E'.

According to the provisions of 4957/2022 Law in force (Official Government Gazette of the Hellenic Republic A' 141/21.07.2022) in conjunction with Official Government Gazette B'4899/16.09.2022 and following the completion of registration procedure in the Programme, post graduate students are becoming informed about the waiver period for tuition fees.

### **Institutional Account Activation**

Following the completion of registration procedure', post graduate students may visit <https://uregister.unipi.gr> to create an institutional account. Using their mobile number (+030 area code have to be preceded), or the e mail address, as stated in their registration



form, they proceed into the creation of their account. The system renders a user code (username), thus enabling registrants to enter their password.

Uregister confirms specific filed data (i.e. email address, mobile phone number, name and surname, father' name and Social Security Number) as these are submitted by post graduate students, meaning that if the data provided are incorrect, students may encounter an issue in their institutional account activation, and may need to address the Secretariat to have the data submitted, edited.

Supplementary to Uregister, is <https://mypassword.unipi.gr/> service, wherefrom students may retrieve, or change their account' password, in the event they have forgotten it, by using the email address, or the mobile number they provided for recovery purposes, while creating their institutional account through Uregister.

### Supplementary Systems

DELOS365 Electronic platform (<https://delos365.grnet.gr>).

By registering on this platform, students gain access to the Office365 collection of software tools and Microsoft Teams application (used as the main platform for online courses). In order to register, it is sufficient for a student to visit the respective page and log in, using the institutional account credentials, previously activated. Activation of the Office 365 and Microsoft Teams account is done directly on Microsoft's online services' infrastructure and may require up to one day to have all services fully activated.

Eclass Asynchronous Education Platform ([eclass.unipi.gr](http://eclass.unipi.gr))

Eclass.unipi.gr platform is the e-learning platform (for asynchronous education) used by the Department of Maritime Studies, whereas students register using their institutional account, selecting the login option "Register->Student->Log in with an institutional account". For information and issues related to platform' support, students may contact [eclass@unipi.gr](mailto:eclass@unipi.gr), or [helpdesk@unipi.gr](mailto:helpdesk@unipi.gr).

### External Entities' Online Services

Ministry of Education and Religious Affairs' Academic ID Online Service –

Academic Identity Card:

\*It must be noted that when a post graduate student applies for an Academic ID Card, he/she must fill the Programme' enrollment month 09/2024 (enrollment date 25/09/2024) In the respective registration field, and select the full, or part-time Programme of studies, in accordance with the information provided to the Secretariat.

GRNET S.A. National Infrastructures for Research and Technology supplementary infrastructure services: <https://www.unipi.gr/unipi/el/hu-edet.html> and <https://grnet.gr/education/>.



## University of Piraeus' additional electronic services for students

- Web application <https://sis-portal.unipi.gr> , where students register for their semester courses, apply for a transcript of records, or a certificate of studies, and become informed about their grades. Once the student logs onto the system, he/she is able to view the data entered by the Secretariat, as also his/her Student Identification Number (SIN), a number required for any interaction with the University's service' centers.
- Students entitled to free dining may contact the Department of Student Care <https://sitisi.unipi.gr/> and log onto the platform so as to submit an application, accompanied by the relevant supporting documents.
- Students may access free commercial software for educational use, via <https://helpdesk.unipi.gr/software> webpage, where instructions for all available software are provided. Software' availability depends on the department of studies.
- For some of the additional electronic services or software use, students are required to connect to the University of Piraeus' Network Operations Centre. Following the instructions available on <https://www.unipi.gr/unipi/el/hu-sundesh-vpn.html> , a student can connect remotely, while using VPN (Virtual Private Network) service in his/her personal computer, provided by the University's Network Operations Centre.
- University of Piraeus provides access to Eduroam, the International Academic Wi Fi Network, which supports a great number of academic and research institutions in Greece and Europe ([https:// https://www.unipi.gr/en/wi-fi-and-eduroam/](https://www.unipi.gr/en/wi-fi-and-eduroam/) ).
- University of Piraeus' Career Office supports students and graduates, assisting them to smoothly become integrated into the labor market and develop a successful career. Career Office promotes partnerships among University of Piraeus' students, graduates, teaching and research Staff. Contact e mail address: [careeroffice@unipi.gr](mailto:careeroffice@unipi.gr)

## Course Descriptions

<u>Course Type</u>	<u>Course Title</u>	<u>ECTS</u>	<u>Anticipated Learning Outcomes</u>
--------------------	---------------------	-------------	--------------------------------------





<b><u>SEMESTER A'</u></b>			
<b><u>First Term</u></b>			
<b>Mandatory</b>	<b>Maritime Economics</b>	<b>4</b>	The primary objective of the course is for students to gain comfort and familiarity with economic concepts/theories and economic analysis tools used in maritime studies, so that in the following semesters they can delve further into specific maritime topics. A secondary objective is, using the above tools and concepts/theories, to understand the mechanics of the shipping markets, their structures and operation with - learning- result the acquisition of the ability to analyze and predict the developments of the shipping markets. As for learning outcomes, upon successful completion of the course, the student will be able to: Understand the basic concepts and tools of shipping economics. Use the methodologies of maritime economics in order to analyze and understand maritime issues. Analyze contemporary shipping economic phenomena and events and relates them to the shipping industry.
<b>Mandatory</b>	<b>Ports and Intermodal Transport</b>	<b>4</b>	The course presents a comprehensive description of intermodal freight transportation with an emphasis on port-centric intermodal transport systems. It outlines the components, main players, transport and loading units, infrastructure, equipment and technologies of the intermodal freight transportation system. Emphasis is given on the comprehension of the characteristics and the competitiveness of each mode. It explains the collaborations between the modes. Special consideration is also given on the description of intermodal freight networks and corridors and the role of ports in these networks. With emphasis on port hinterlands, special attention is given on the purpose and functions of dry ports and inland terminals. Several case studies are detailed. At the end of this course the students will be able to describe the intermodal transportation system, name and describe its components, classify them according to their characteristics and compare and contrast different modes based on their characteristics and competitiveness. They will be able to outline and explain collaborations between modes. They will be able to describe and give examples of intermodal freight networks and corridors, assess their effectiveness, and elaborate on the role of ports in these networks and corridors. They will be able to describe and analyze the role of dry ports and inland terminals and appraise port – hinterland transport systems.



Mandatory	Ship Technological Efficiency	4	The course aims to familiarize students with the basic principles of ship technological performance. It starts with presenting the main characteristics of ships with a focus on the general arrangement of modern ships. The basic principles of Ship Resistance and Propulsion and Internal Combustion Engines (ICE) are presented, and examples are given with conventional and alternative ship propulsion systems. The course also aims to provide basic knowledge about marine fuels and to train students to perform fuel consumption evaluations and ship energy efficiency assessments.
Seminar Type Mandatory	Shipping, Energy and Geopolitics	3	<p>The purpose of the course is to present and interpret the causes of geopolitical, economic, environmental and energy risks and challenges in the shipping industry and to discuss the possibilities of addressing them. After the successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>• understand the key economic and non-economic factors affecting global shipping,</li> <li>• identify and analyze the effects of individual political and geopolitical risks on global shipping,</li> <li>• assess the significance of risks to shipping arising from important strategic sea passages and global sea lanes,</li> <li>• understand the correlation of global economic developments with the development of the maritime economy,</li> <li>• acknowledge and analyze the effects of international financial crises, trade competitions and crises. in energy markets on maritime transport,</li> <li>• recognize the environmental risks and environmental impacts of maritime transport and master the international environmental institutional framework,</li> <li>• perceive the great challenge of the energy transition of shipping and the sustainability of individual alternative energy sources of propulsion,</li> <li>• assess the wider global environment in which the shipping market operates and avoid financial and non-financial risks.</li> </ul>
<b><u>SEMESTER A'</u></b>			
<b><u>Second Term</u></b>			



Mandatory	Port Economics and Policy	5	<p>Through this course students acquire knowledge regarding:</p> <ul style="list-style-type: none"> <li>- The trends and developments in international trade and international and European policies</li> <li>-The role of ports in intermodal transport systems, global transport chains and value chains</li> <li>-The fundamentals of economics - supply and demand curves, elasticity, competition, economies of scale, pricing and estimation of total average and marginal costs, average and marginal costs</li> <li>-The use of basic principles in the study of ports, terminal and port operations, port logistics</li> <li>-The evaluation of performance and efficiency, investments and social costs associated with port operations</li> </ul>
Mandatory	Shipping Management	4	<p>After the completion of the course students should be able to understand the organization and management of shipping companies, to understand the internal articulation and the functions of shipping companies, to adjust theories and tools of the Management to the needs of businesses that operate in the shipping sector and to understand the specific characteristics of the organization and management of Greek-owned shipping companies.</p> <p>The Management and Organization of Shipping Companies course aims at developing the following competences to the degree-holder:</p> <ul style="list-style-type: none"> <li>- Business Environment Analysis</li> <li>- Adopting to new situations</li> <li>- Working in an international environment</li> <li>- Search for, analysis and synthesis of data and information, with the use of the necessary technology</li> <li>- Decision-making</li> <li>-Team work</li> <li>-Respect for difference and multiculturalism</li> <li>- Respect for the natural environment</li> <li>-Showing social, professional and ethical responsibility and for gender issues</li> <li>-Production of free, creative and inductive thinking</li> <li>- Criticism and self-criticism</li> </ul>



Mandatory	Supply Chain Management	4	<p>Upon the successful completion of the course the students will be able to:</p> <ul style="list-style-type: none"> <li>• Address supply chain management issues taking into account general principles of administration and human resource management, environmental impacts, quality management, as well as technological and financial aspects.</li> <li>• Understand, analyze, and communicate the important issues related to the field of supply chain management, but also assess their complexity.</li> <li>• Describe the important functions and activities of the global supply chains.</li> <li>• Analyze the differentiation between logistics and supply chain management.</li> <li>• Describe alternative ways of organizing and managing supply chains.</li> <li>• Describe different methods of inventory management.</li> <li>• Explain how technological advancements are evolving logistics management.</li> <li>• Compare different freight modes and related policies.</li> <li>• Describe the different security measures for international logistics.</li> <li>• Describe the documentation and terms of sale for international shipments.</li> <li>• Demonstrate business and work ethics.</li> <li>• Acquire abilities to solve critical business issues.</li> </ul>
Seminar Type Mandatory	Human Resources Management	2	<p>After the successful completion of the course students are expected to be able:</p> <ul style="list-style-type: none"> <li>• to understand the functions of Human Resource Management.</li> <li>• to understand the contribution of human factor to the effective operation of organizations.</li> <li>• to understand the need for the development and use of tools which will contribute to the satisfaction of human resources and to the achievement of organization's objectives.</li> <li>• to understand the global dimension of the labor markets in shipping industry and the ways this dimension affects the practices of Human Resource Management.</li> <li>• to understand how diversity is incorporated in the tools and methods of Management of Human Capital in Shipping.</li> </ul>
<b><u>SEMESTER A' ECTS TOTAL: 30</u></b>			
<b><u>SEMESTER B'</u></b>			
<b><u>Third Term</u></b>			
Mandatory	Financial Accounting and Shipping Finance	5	<p>At the end of the course, the learner will be expected to be able to:</p> <ol style="list-style-type: none"> <li>1) Know all sources of shipping finance.</li> <li>2) Know their advantages and disadvantages.</li> <li>3) Compare and evaluate alternative investments / ship financings.</li> </ol>



			4) Comprehend the financial statements of shipping companies.
Mandatory	Marine Insurance Law	4	<p>Upon successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Have knowledge and understanding of the basic principles and concepts of marine insurance.</li> <li>• Be aware of the historical development of the institutions and their respective practice to date.</li> <li>• Understand and analyze international and domestic data on the development and operation of maritime insurance institutions.</li> <li>• Develop analytical, comparative and synthesis skills for fuller utilization of their knowledge on a practical level.</li> </ul>
Mandatory	Shipping Operations	4	<p>The main purpose of the course is to introduce students to the issues of shipping operations. The course analyzes the procedures to be followed by all parties involved, the crew, the land office, and those involved in the ports. The aim is the safe and efficient operation of ships. Different types of cargo and ships, freight management, emergency response (fire, ship abandonment) as well as basic ISM, ISPS codes and international conventions such as STCW are being considered.</p> <p>More specifically, with the successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand and explain how shipping companies operate (understanding).</li> <li>• Understand the role of new technologies in shipping operations (understanding).</li> <li>• Understand and be aware of the basic operations of shipping enterprises and vessels (knowledge).</li> <li>• Be aware and compare key codes governing the smooth, safe and efficient operation of ships (knowledge and assessment).</li> </ul>
Seminar Type Mandatory	Safety and Security in Shipping Operations	2	<p>Upon successful completion of the course, students will be able to understand:</p> <ul style="list-style-type: none"> <li>-What do the international rules and codes require, in terms of the organization and management of safety and quality, on behalf of the companies active in the shipping industry,</li> <li>-What goals do shipping companies set in relation to the provision of a safe and quality project for transporting goods by sea,</li> <li>-How to keep a Safe Management system efficient,</li> <li>-How much an accident or an unexpected situation burdens the operation of a shipping company.</li> </ul>
<b><u>SEMESTER B'</u></b>			
<b><u>Fourth Term</u></b>			



<b>Mandatory</b>	<b>Chartering</b>	<b>5</b>	<p>Upon successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Have knowledge and understanding of the basic principles and concepts of marine insurance.</li> <li>• Be aware of the historical development of the institutions and their respective practice to date.</li> <li>• Understand and analyze international and domestic data on the development and operation of maritime insurance institutions.</li> <li>• Develop analytical, comparative and synthesis skills for fuller utilization of their knowledge on a practical level.</li> </ul>
<b>Seminar Type Mandatory</b>	<b>Maritime Tourism</b>	<b>2</b>	<p>Through this lesson/subject, students acquire knowledge with regard to the marine tourism and its sectors, with particular emphasis to the market (supply &amp; demand) of the cruise and yachting industry globally, as well as at regional and national level.</p>
<b>Mandatory by selection</b>	<b>Environmental Management in Shipping and Port Operations</b>	<b>4</b>	<p>Upon completion students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand what green shipping is all about.</li> <li>• Understand the environmental impact of the shipping industry.</li> <li>• Apply economic tools to improve societal perceptions of the environmental consequences of shipping.</li> <li>• Understand the necessity of the systemic approach between the port city and the port itself.</li> <li>• Identify the new tendencies of modern shipping.</li> </ul>
<b>Mandatory by selection</b>	<b>ICT Applications in Shipping, Ports and Logistics</b>	<b>4</b>	<p>The main purpose of the course is to introduce students to the aspects of the design and implementation of Information Systems (IS) related to maritime activity. The course analyzes software (databases etc.) and hardware (communication devices and networks) involved in Maritime IS (MIS).</p> <p>More specifically, with the successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Understand and explain how a MIS operates (understanding).</li> <li>• Understand and be aware of the contribution of new technologies (databases, networks) in the efficient performance of MIS (understanding and knowledge).</li> <li>• Be aware of and assess the particularity of MIS with respect to IS in general, as well as relevant data sources, such as AIS data (knowledge and assessment).</li> </ul>



Mandatory by selection	Maritime Law and Institutions	4	<p>The main objective of the course "Maritime Law and Institutions" is the selective codification and analysis of the existing domestic (Maritime Law) and international (International Maritime Law and Law of the Sea) regulatory and organizational institutional framework within which modern Greek-owned and international shipping operates.</p> <p>Upon successful completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>-- Know the regulations concerning the ship and its operation (definition, ownership, mortgage, operation, administration of a ship, etc.).</li> <li>-- Possess the basic international rules of the Law of the Sea that determine the legal status of the ship according to its position in a corresponding sea zone and area during international voyages.</li> <li>-- Have a good knowledge of the IMO rules that constitute International Maritime Law and regulate international shipping in the key areas of life safety, environmental protection, maritime safety and security.</li> </ul>
Mandatory by selection	International Economics – Maritime Trade	4	<p>The main objective of the module is to make participants of the course able to comprehend the structure and mechanisms of international trade and the related economics mechanisms. More specifically:</p> <p>The course focuses on international trade, enhancing on seaborne trade, its policies and international economics. It also deals with a multilateral policy agenda that directly or indirectly affects global maritime trade.</p> <p>Throughout the lectures, the theory and practice behind the development of modern forms of trade, the distinctive microeconomic characteristics of commodities, pricing mechanisms, adjustment methods and the role of producers and buyers in shaping market conditions are examined.</p> <p>As a result of attending this module, participants will be able to understand:</p> <ul style="list-style-type: none"> <li>• The relationship between seaborne trade and the world economy.</li> <li>• The benefits and harms of international trade.</li> <li>• The methods utilized to disrupt international trade and the consequences for the consumers.</li> <li>• The international organizations responsible for international policies and the implementations of international laws.</li> <li>• The functioning of external trading mechanisms.</li> <li>• How economic crises affect and disrupt international trade.</li> </ul>
<b><u>SEMESTER B' ECTS TOTAL: 30</u></b>			<b><u>SEMESTER C'</u></b>





Mandatory by selection	Internship	30	<p>The Internship course of the master's degree in Shipping aims:</p> <ul style="list-style-type: none"> <li>• to connect theoretical studies with their practical dimension in the workplace</li> <li>• in the additional acquisition of experiences, additional knowledge, and skills as well as in the networking of the students</li> <li>• to inform them about and familiarizing them with working conditions</li> <li>• to increase the chances of being hired by the company where the internship takes place</li> </ul>
Mandatory by selection	Master Thesis	30	<p>The Master Thesis is a scientific paper which aims at the in-depth engagement of the student with a specific cutting-edge topic that concerns the shipping industry. The goal is the utilization and further development on the part of the student of the knowledge and skills acquired from the courses of the first semesters of the Programme. Each thesis must demonstrate advanced theoretical knowledge, practical skills, critical thinking, ability to analyze and formulate problems and research ability of the graduate student. It may refer to empirical, theoretical or applied topics and be carried out in collaboration with a private or public body dealing with related subjects. The Master Thesis must be characterized by elements of originality and have a research character. The nature of the work can be (a) bibliographic/synthetic and concern the gathering, overview, critical evaluation and synthesis of existing knowledge and information, (b) analytical/computational and concern the creation, improvement, or application of methods, techniques, models for the utilization and processing of elements or laboratory or field measurement data, (c) methodological and refers to the utilization of existing knowledge and information in combination with theoretical and methodological approaches for the description and interpretation of a phenomenon or topic, or (d) a combination of above.</p>
Mandatory by selection	Specialization in Port Topics	30	Attendance of the total of seven (7) courses in one semester.



	<b>Port Management, Planning and Organization</b>	<b>5</b>	<p>The course is divided into teaching units, dealing with the following issues and upon successful completion students will have a clear understanding of:</p> <ul style="list-style-type: none"> <li>- Port Planning: Definition, conceptual references, levels of port planning</li> <li>- Port Planning and EU policy</li> <li>- The evolution of ports</li> <li>- Factors influencing the basic port planning: Demand and Supply.</li> <li>- Electronic Information Exchange Systems in the port industry.</li> <li>- The specialized port marketing as a planning tool.</li> <li>- Port Statistics and indicators</li> <li>- Human Resources Management in the modern port industry.</li> <li>- Port Planning Framework for Quality-Safety.</li> <li>- Port-City Relations.</li> </ul>
	<b>Ports and Spatial Planning</b>	<b>5</b>	<p>Attending this module, dealing with the following issues, participants will be able to understand:</p> <ol style="list-style-type: none"> <li>1. Spatial planning process</li> <li>2. The emergence of transportation systems</li> <li>3. Transportation networks</li> <li>4. Spatial organization, location</li> <li>5. Urban form and land use</li> <li>6. Blue economy, established and emerging blue economy sectors</li> <li>7. Maritime Spatial Planning (MSP) process</li> <li>8. Spatial impact of shipping and port activities</li> <li>9. Port Master Plan, and a view on</li> <li>10. Case studies</li> </ol>
	<b>Organization and Operation of the Local Maritime and Port Cluster</b>	<b>5</b>	<p>The result for participants attending this module participants will be able the comprehension of:</p> <ul style="list-style-type: none"> <li>- The concept of Cluster</li> <li>- Porter's Theory of "Clusters"</li> <li>- The institutional framework of Clusters in the EU and in Greece</li> <li>- The characteristics of a Cluster</li> <li>- The types of Clusters</li> <li>- The success factors of the development of Clusters</li> <li>- The advantages of Cluster</li> </ul>



			<ul style="list-style-type: none"> <li>-The life cycle of Clusters</li> <li>-The Hellenic Maritime Cluster</li> <li>-The characteristics of the Greek Maritime Cluster</li> <li>-The benefits and advantages of Maritime Clusters</li> <li>-Successful examples of Maritime Clusters in Europe and the rest of the world</li> <li>-The Port Cluster</li> <li>-The characteristics of the Port Cluster</li> <li>-The differences and synergies of the Maritime and Port Cluster</li> <li>-Successful examples of Port Clusters in Europe and the rest of the world</li> <li>-The Port Cluster of Piraeus</li> </ul>
	Management of Port and Terminal Operations	5	<p>Through this course, students will acquire knowledge concerning:</p> <ol style="list-style-type: none"> <li>1. Trends in shipping and international trade. The external environment of ports</li> <li>2. The organization and development of ports</li> <li>3. The categories of ports and terminals</li> <li>4. Port planning</li> <li>5. Ports – layout and functions</li> <li>6. The international organizations involved in ports</li> <li>7. Structure and functions of port management and terminal operations</li> <li>8. Global Terminal Operators</li> <li>9. The organizational systems of ports</li> <li>10. Energy and environmental performance</li> <li>11. Green ports, and</li> <li>12. Port Automation</li> </ol>
	Environmental Management of Ports and Coastal Areas	4	<p>Through this course, students come into contact with and acquire knowledge related to:</p> <ul style="list-style-type: none"> <li>-Policy and governance issues for the environment and sustainable development of ports</li> <li>-The modern port industry – The case of Greek Ports.</li> <li>-The policies of the E.U. on the environment and transport</li> <li>-The presentation and analysis of environmental management tools and methods</li> <li>-The presentation and analysis of the environmental management tools developed by ESPO</li> <li>-The advantages from the development and implementation of Environmental Management Systems (EMS) in ports.</li> <li>-The presentation and analysis of tools and methodologies such as: Life Cycle Analysis (LCA), Risk Management, Carbon and Environmental Footprint, Strategic Environmental Impact Study (SEI), Environmental Impact Study (EIS), Cost Benefit Analysis</li> <li>-The presentation and analysis of ESPO's environmental management tools and</li> </ul>



			methodologies such as: Self Diagnosis Methodology (SDM), Port Environmental Review System (PERS), Key Environmental and Key Performance Indicators (KPI's), and present -Specific examples of applications in Greek and European case studies.
	<b>Coastal Shipping and Island Transportation</b>	<b>3</b>	Through this course, students will acquire knowledge concerning: <ul style="list-style-type: none"> <li>- European maritime transport policy</li> <li>- Short Sea Shipping (SSS)</li> <li>- Insularity – local and regional development</li> <li>- SSS's role in shaping an integrated intermodal transport system and in ensuring territorial cohesion</li> <li>- Institutional framework and decision-making</li> <li>-The structure and organization of the market for coastal shipping services in Greece</li> <li>- The contribution of the shipping industry to the Greek economy</li> <li>- The Greek coastal shipping network</li> </ul>
	<b>Artificial Intelligence in Shipping</b>	<b>3</b>	Through this course, students come into contact with an Introduction to Artificial Intelligence, an Introduction to machine learning, Regression models, Neural networks, concluding with an overview on the course' content.
<b><u>SEMESTER C' ECTS TOTAL : 30</u></b>			
<b><u>M.Sc. in 'Shipping' ECTS TOTAL: 90</u></b>			

## Teaching Staff – Resident Faculty





#### **Professor Maria Boile**

Dr. Maria Boile has more than 25 years of academic and research experience in the US (15 years) and in Europe (10 years). She is Professor of “Port and Inland Terminal Policy and Management” at the Department of Maritime Studies, Director of the MSc in 'Shipping', Director of the 'Quantitative Analysis in Shipping' Laboratory at the University of Piraeus and Head of the Research Sector on Transport Economics and Environment, Maritime and Air Transport, at the Hellenic Institute of Transport (HIT), Centre for Research and Technology Hellas (CERTH). She is an affiliated faculty with the Center for Advanced Infrastructure and Transportation, Rutgers University, US (2010-currently). She is the Coordinator for the European Technology Platform in Waterborne Transport (Wtaerborne TP).



#### **Professor Ioannis Theotokas**

Dr. Ioannis Theotokas is Professor of Shipping Management. He has a background of economics and has specialized in Shipping Management. He studied at the University of Piraeus (Department of Economic Sciences) and received his PhD in Shipping Management from the Department of Maritime Studies of the same University. His research interests lie in the fields of Management, Human Resource Management and Strategic Management applied to shipping business.



#### **Professor Athanasios Pallis**

Dr. Athanasios Pallis is a Professor in Port and Maritime Economics & Policy, at the Department of Maritime Studies, University of Piraeus, Greece. The Vice-Chair of the Port Performance Research Network (PPRN), and founding member & co-director of Port Economics, he is the co-author of the book Port Economics, Management & Policy (2022).

He served as President of the International Association of Maritime Economists (IAME) (2018-2022). Currently, he is an IAME Council member. He is also a member of the International Association of Ports & Harbours (IAPH) Risk and Resilience and Cruise Committees and co-author of the IAPH World Ports Tracker.



### Professor Angelos Pantouvakis

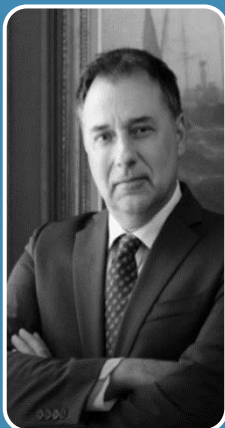
Dr. Angelos Pantouvakis studied Civil and Transport Engineering at the **National Technical University of Athens**, (M. Eng.) He continued his studies at the **Nottingham Business School**, UK, **M.B.A.** (Masters in Business Administration) and he did his **Ph.D.** at the Judge Business School, **University of Cambridge** in Modeling and Measuring Quality aspects on companies' performance.

He teaches Shipping management, Management, Marketing and Marketing of Shipping and Transport Companies, as well as Maritime Operations and Management and his research areas are Services Marketing, such as the quality of service management, the management of total quality and business excellence.



### Professor Efstratios Papadimitriou

Dr. Efstratios Papadimitriou is a Professor at the Department of Maritime Studies of the University of Piraeus teaching transport planning and logistic courses and is the Director of the Transportation Systems Laboratory. He has been the Chairman BoD of the Athens International Airport from 2010 to 2012 and the Chief Executive Officer (CEO) of the Athens Urban Transport Organization (OASA) from 1997 to 2002 among past assignments. During his five-year tenure at OASA, the public transportation companies under the OASA umbrella including the Athens METRO and Light Rail systems were reorganized and restructured financially, a major investment plan was implemented, and a variety of innovative Programmes were introduced which modernized public transport in greater Athens and improved mobility. He has also served as an advisor to Ministers of Transport for national and European affairs and has acted as a consultant in various entities. Currently he is an advisor to the founder of a NYSE listed major ship owning company. He has been involved in managing and participating more than 20 European Union funded research projects regarding transport planning, logistics, maritime and urban transport. He serves regularly as an evaluator in DG MOVE / REA (CeF) Research Framework Programmes and for the Innovation and Networks Executive Agency (INEA). He has published more than 55 research papers and his work has been cited more than 4100 times.



### Professor Theodoros Pelagidis

1995-1996: NATO Post-doctoral Fellow, Center for European Studies, Harvard University, USA.

1993-1994: Post-doctoral Fellow, Center for European Studies, Harvard University, USA.

1991-1993: Doctorat (Economics), Dpt. of Political Economy, University of Paris VIII/Lumieres, France.

1987-1989: M.Phil. (Development Economics), Institute of Development Studies (IDS), University of Sussex, UK.

1983-1987: Diploma/Ptychion (Economics), Aristotelian University of Thessaloniki, Greece.



**Professor Fani Sakellariadou**

1976-1981, Degree in Chemistry, Chemistry Department, Faculty of Science, University of Athens. | 1981-1983, Diploma of Imperial College in Organic Synthesis, Department of Organic Chemistry, Imperial College, University of London, U.K. | 1981-1984, Professional Indicative in Oceanography, School of Positive Sciences, University of Athens | 1983-1987, PhD in Applied Marine Geochemistry, Applied Geochemistry Research Group, Royal School of Mines, Imperial College, University of London, U.K. Thesis title: The geochemistry of the coastal sediments of the North Aegean. The areas of her academic activity (26 years) include the independent teaching of the courses Oceanography, Pollution and Shipping, Integrated Coastal Zone Management to the undergraduate students of the Department of Maritime Studies of the University of Piraeus, the independent teaching of the courses (a) Environment and Shipping, (b) Blue Development and (c) Marine Pollution, as well as co-teaching the course Economics of Marine Tourism to students of Master's Degree Programs of the University of Piraeus. She has also been invited to lecture at the Interdepartmental Master's in Oceanography of the University of Athens. Finally, she has taught chemistry (1 year) at the Icaron School.



**Emeritus Professor Constantinos Chlomoudis**

**Education.**

Ph.D. 1991, in Economic Studies, University of Macedonia.

Undergraduate Studies 1984, Department Business Administration, University of Macedonia.

**Research Interests.**

Application and effects of new methods of productive activity in the Administration and Organisation of Ports | European Policy for Transport (with emphasis on the policy planning of the Port industry) | Public Services Obligation in Transport

Characteristics and organization forms of competitive ports | Port Planning | Investments in transport infrastructure | Environmental impacts of the development of production in the port industry | Combined and multimodal transportation | Application of logistics | Short sea shipping | Specialized railways



**Associate Professor Andreas Andrikopoulos**

Dr. Andreas Andrikopoulos is an Associate Professor at the Department of Maritime Studies of the University of Piraeus. He holds a Bachelor's degree and a PhD from the Athens University of Economics and Business and a Master's degree (MSc) from the University of Warwick. He has served as Professor of Finance, CEO of the Property Development Company and Director of the Executive MBA Programme at the University of the Aegean. He has taught finance at the University of Piraeus, the University of the Aegean, the Hellenic Open University, the Athens University of Economics and Business, the International Hellenic University and Deree College. His textbook "The essentials of social finance" has been published by Routledge (2021). His research interests include shipping finance, financial management, accounting, corporate governance, epistemology and scientometrics.





**Associate Professor Alexandros Artikis**

Dr. Alexander Artikis is an Associate Professor in the Department of Maritime Studies of the University of Piraeus. He holds a PhD from Imperial College London on multi-agent systems, while his research interests lie in the areas of artificial intelligence and distributed systems. Alexander has published papers in related journals and conferences, such as Journal of Artificial Intelligence Research, Machine Learning, the IEEE Transactions on Knowledge and Data Engineering, the Artificial Intelligence journal, the ACM Transactions on Autonomous and Adaptive Systems, the ACM Transactions on Computational Logic, the ACM Transactions on Intelligent Systems and Technology, and the ACM Transactions on Internet Technology. He is a member of the Program committees of several international conferences, including the International Conference on Autonomous Agents and Multi-Agent Systems (AAMAS), the International Joint Conference on Artificial Intelligence (IJCAI), the International Conference on Distributed Event-Based Systems (DEBS) and the AAI conference on Artificial Intelligence.



**Associate Professor Ioannis Lagoudis**

Dr. Ioannis N. Lagoudis is a faculty member at the Department of Maritime Studies at the University of Piraeus. Prior to this appointment he served as faculty at the MIT Global SCALE Network (MIT-Malaysia Institute for Supply Chain Innovation) part of MIT's Center for Transportation and Logistics and at the Department of Shipping Trade and Transport at the University of the Aegean. As a Fulbright research scholar he joined the MIT Center for Transportation and Logistics in 2010. Since 2023 he is appointed as a Fulbright Greece Outreach Ambassador. Dr Lagoudis is active in industry as well, advising multinational companies and Government agencies in Asia, U.S.A., and Europe on maritime and supply chain related issues. Among the companies he has collaborated with are CSX, Starbucks, Petronas, Ralph Lauren, and Johor Port Authority. Currently he is advising Greek and U.S. based companies active in ocean transportation at strategic and operational level. His research focus is on supply chain management, maritime logistics, strategic management and decision-making. He has published several papers in conferences and academic journals. He is the Editor in Chief of the International Journal of Decision Sciences, Risk and Management.



**Associate Professor M. Karakasnaki**

Dr. Maria Karakasnaki is an Assistant Professor at the Department of Maritime Studies. She holds a BSc in Accounting and Finance from Athens University of Economics and Business, a MSc in Maritime Studies and a Ph.D. in Maritime Studies (specialization in Management and Quality) from the Department of Maritime Studies of University of Piraeus, Greece. Her research interests include the topics of management and quality, quality management systems and human resource management.





**Assistant Professor Georgios Daniil**

Dr. Georgios Daniil is an Assistant Professor at the Department of Maritime Studies at the University of Piraeus. He holds a B.Sc. from the Aristotle University of Thessaloniki, School of Law, an LL.M. from Heidelberg, Germany, School of Law and the Aristotle University of Thessaloniki and a J.D. from the Law School of the National and Kapodistrian University of Athens. At the Department of Maritime Studies of the University of Piraeus he teaches the courses of Marine Insurance Law, Maritime Law, Law of the Sea, International Maritime Law and Maritime Arbitration and Mediation. His writing includes monographs and studies covering a wide range of issues in the fields of Marine Insurance, Maritime Criminal Law, Private Maritime Law and Maritime Law.



**Assistant Professor Vasilios - Christos Naoum**

Dr. Vasilios-Christos Naoum is an Assistant Professor of Accounting in the Department of Maritime Studies at the University of Piraeus. He holds a Bachelor in Business Administration from the Department of Business Administration of the University of Piraeus, a Master of Science (M.Sc.) in Accounting and Finance, a Ph.D. and a Post-Doc in Accounting from the Athens University of Economics and Business (Department of Accounting and Finance).



**Associate Professor Dionysios Polemis**

**Education**

2003-2007, Liverpool University, Management School, U.K., PhD in Finance  
2002-2003 University of Wales, Bangor, U.K., M.Phil, Banking Finance  
2000-2001, University of Wales, Bangor, U.K., M.A, Banking Finance  
1997-2000, Anglia Ruskin University, U.K., BSc, Business Economics



#### Assistant Professor Stefanos Chatzinikolaou

Dr. Stefanos Chatzinikolaou is an Assistant Professor in the Department of Maritime Studies of the University of Piraeus, Greece. He is a graduate of the School of Naval Architecture and Marine Engineering of the National Technical University of Athens, Greece, where he also concluded his PhD studies. He has served the maritime industry from managing positions in research, consulting engineering, and professional maritime training. He has a background of sixteen years in academic, EU funded, and industrial research projects. His main fields of work and interest are ship energy efficiency and environmental performance, sustainable maritime transport, maritime safety, and human factors.



#### Assistant Professor Evangelos Tsioumas

Dr. Evangelos Tsioumas is an Assistant Professor of Quantitative Methods in Shipping at the Department of Maritime Studies, University of Piraeus. Dr. Tsioumas has an extensive record of research, teaching, and administration. He holds a PhD from the Department of Maritime Studies at the **University of Piraeus**, an MSc in Risk Management & Financial Engineering from **Imperial College** Business School, and a BSc & MSc in Applied Mathematics from **National Technical University of Athens**. Dr. Tsioumas has published numerous research articles in the areas of shipping market modeling and strategic management using analytical tools. He has also served as a reviewer for several journals. Furthermore, Dr. Tsioumas conducted research at the Athens University of Economics and Business as a Post-doctoral Fellow and at New York University (NYU) as a visiting scholar.



#### Assistant Professor A. Christodoulou

Dr. Anastasia Christodoulou is an Assistant Professor of Sustainable Blue Economy at the Department of Maritime Studies at the University of Piraeus. She has worked as a Postdoctoral Researcher at the Department of Strategy & Innovation of Copenhagen Business School as well as at the School of Business, Economics & Law of Gothenburg University in Sweden in the area of sustainable shipping and ports. She is a Visiting Professor and former Research Associate of World Maritime University specializing in maritime energy management issues. She has extensive experience in teaching sustainable maritime operations (including air pollution from shipping, oil spills, ballast water, development of sustainable multimodal transport chains) at both undergraduate and postgraduate levels.



**Dr. Nikolaos Kagkarakis**

Dr Nikolaos Kagkarakis is a Senior Relationship Manager in the Ship Finance Division of Alpha Bank, having as main role the management of a portfolio of shipping client relationships. He is also a visiting lecturer in various academic institutions, where he teaches ship finance-related modules.



**Capt. Dimitrios Mattheou**

CEO Arcadia Shipmanagement & Aegean Bulk | Chairman Green Award Foundation | Vice Chairman INTERTANKO Hellenic Mediterranean Panel | Council Member INTERTANKO | Executive Committee Member INTERCARGO | Executive Committee Member Norwegian Hull Club, HELMEPA, ALBA | Governor International Propeller Club of the United States



**Nikolaos Rodopoulos**

Mr. Nikolaos Rodopoulos (M.Sc.) is the President and Managing Director of OnLine Data SA, President of the Hellenic Logistics Association, Member of the National Council for Logistics Development of the Ministry of Economy and Development, President of the Oinofyta Logistics Business Park SA, Scientific Advisor of the Piraeus Chamber of Commerce and Industry (EVEP), Scientific Advisor of the 'EXANTAS' Training Institute, Member of the General Council of the Hellenic Federation of Enterprises (SEV), Member of the Attica – Piraeus Federation of Industries (SVAP), Member of the Federation of Hellenic Information technology and Telecommunication Enterprises (SEPE).



**Capt. Nikolaos Pentheroudakis**

Served in Merchant ships (Dry cargo/Tanker) as Deck Officer for eight years, Awarded Governmental Permission to teach English as a foreign language 1970, Educated in England (Shipping) | Consultant of the Fleet of bulk carriers of "COSTAMARE" 2021/... | Elected seven times President 1991/2005 and Honorary President since 2005 of the "Hellenic Shipbrokers' Association" (HSA)



**Prof. A. Kotios**

Dr. Angelos Kotios is the Chairman of the Department of Tourism Studies, and an International and European Development Relations' Professor at the Department of International and European Studies, as also a former Rector of the University of Piraeus.

He earned his Diploma in Economics from the University of Thessaloniki in 1979, and his PhD in Economics at the University of Tübingen, Germany in 1986. From 1987 to 1990 he was employed at the University of Tübingen as a Research Associate and was appointed as a Special Advisor to the Greek Ministry of Foreign Affairs from 1991 to 1993. His research interests include the Economic Crisis, topics on international trade policy, international monetary policy, European Integration and development policy.



**Dr. E. Bekiaris**

Dr. Evangelos Bekiaris, Mechanical Engineer (NTUA), is the Director of Hellenic Institute of Transport (HIT) of the Centre for Research and Technology Hellas (CERTH) and Vice-President of CERTH. From 1992 until today, he has participated in 105 Research projects, in 42 of which in the role of Consortium Coordinator. He has been the National Representative of Greece in the European Initiative for Autonomous Vehicles (CCAM) since 2022 and in the "Climate Neutrality & Smart Cities" Initiative of the Horizon Europe Program since 2019. At the same time, he is the President of the European Rail Research Network of Excellence (EURNEX) from 2019.



## Campus Facilities



Library



Venue Room



Conference Room



V. Metaxas Room





## Contact Information



M.Sc. in 'Shipping' Secretariat: 210 4142542  
Maritime Studies' Department Secretariat:  
210 4142074, 210 4142075, 210 4142175, 210 4142397



M.Sc. in 'Shipping' Secretariat: [nafadmin@unipi.gr](mailto:nafadmin@unipi.gr)  
Maritime Studies' Department Secretariat:  
[naf-secr@unipi.gr](mailto:naf-secr@unipi.gr)



M.Sc. in 'Shipping' Secretariat: 21 Grigoriou Lambraki &  
Distomou Street, 18533 Piraeus, Office 609, 6<sup>th</sup> floor  
Maritime Studies' Department Secretariat: 80 M. Karaoli &  
A. Dimitriou Street, 18534 Piraeus, Office 113, 1<sup>st</sup> floor



<https://maritime-unipi.gr/spoudes/metaptychiakes-spoudes/msc-shipping/>



<https://www.facebook.com/mscinshipping>



[https://www.instagram.com/msc\\_in\\_shipping/](https://www.instagram.com/msc_in_shipping/)



<https://www.linkedin.com/company/msc-in-shipping-university-of-piraeus>