# Safety and Security in Shipping Operations (ECTS 2)

## COURSE OUTLINE

### (1) GENERAL

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| **SCHOOL** | MARITIME AND INDUSTRIAL STUDIES |
| **ACADEMIC UNIT** | MARITIME STUDIES |
| **LEVEL OF STUDIES** | POSTGRADUATE |
| **COURSE CODE** | MNA36      **SEMESTER**   B |
| **COURSE TITLE** | Safety and Security in Shipping Operations |

| INDEPENDENT TEACHING ACTIVITIES<br>*if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits* | WEEKLY TEACHING HOURS | CREDITS |
|:---|:---:|:---:|
| Lectures | 3 | 2 |
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| *Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).* | | |

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| **COURSE TYPE**<br>*general background, special background, specialised general knowledge, skills development* | General Background |
| **PREREQUISITE COURSES:** | No |
| **LANGUAGE OF INSTRUCTION and EXAMINATIONS:** | Greek |
| **IS THE COURSE OFFERED TO ERASMUS STUDENTS** | No |
| **COURSE WEBSITE (URL)** | https://teams.microsoft.com/l/team/19%3anIAwXxUFoUbKX3v2eweW7A4_kcU3qg9YQWAancrAHcc1%40thread.tacv2/conversations?groupId=568247d3-311b-4bfc-aac5-1c3c6f21aac1&tenantId=d9c8dee3-558b-483d-b502-d31fa0cb24de<br><br>https://eclass.unipi.gr/courses/NAS453/ |

### (2) LEARNING OUTCOMES

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| **Learning outcomes**<br>*The course learning outcomes, specific knowledge, skills and competences of an appropriate level, which the students will acquire with the successful completion of the course are described.*<br><br>*Consult Appendix A*<br>• *Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area*<br>• *Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B*<br>• *Guidelines for writing Learning Outcomes* |

The course aims to gain understanding and knowledge regarding risk management in maritime entrepreneurship, through the proactive approach of risk assessment and risk management (Risk Assessment and Risk Management). Achieving continuous improvement is the key to any effective Management System.

The course emphasizes on the principles and organization of operational and efficient management of a shipping company which are summarized in the following:

Safety in Shipping must aim for perfection (Zero Incidents), the protection of workers, property and the environment must be the absolute priority, and shipping operations must be efficient and profitable, through a sustainable use of available resources and the research for new practically implementable applications.

Upon successful completion of the course, students will be able to understand:
-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,
-What goals do shipping companies set in relation to the provision of a safe and quality project for transporting goods by sea,
-How to keep a Safe Management system efficient,
-How much an accident or an unexpected situation burdens the operation of a shipping company.

**General Competences**
*Taking into consideration the general competences that the degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at which of the following does the course aim?*

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| *Search for, analysis and synthesis of data and information, with the use of the necessary technology* | *Project planning and management* |
| | *Respect for difference and multiculturalism* |
| *Adapting to new situations* | *Respect for the natural environment* |
| *Decision-making* | *Showing social, professional and ethical responsibility and sensitivity to gender issues* |
| *Working independently* | |
| *Team work* | *Criticism and self-criticism* |
| *Working in an international environment* | *Production of free, creative and inductive thinking* |
| *Working in an interdisciplinary environment* | *......* |
| *Production of new research ideas* | *Others...* |
| | *.......* |

- Search for, analysis and synthesis of data and information, with the use of the necessary technology
- Working independently
- Respect for difference and multiculturalism
- Production of free, creative and inductive thinking

## (3) SYLLABUS

- Safety Management System,
- Risk Management,
- Continual improvement process,
- Behavioural-based safety and other Human-centered approaches, for building a strong Safety Culture,
- Measuring the system's performance through KPIs,
- Planned Maintenance and safety inspections,
- System Auditing,
- Best Practices.
- Interrnational Legislation & Codes to enhance safety and pollution prevention - SOLAS, MARPOL, IMDGC, IMSBC, ISM & ISPS code,
- the Role of DPA,
- Preparing for Emergencies,
- the cost of accidents in human, financial and environmental terms,
- Lessons learned from recent cases.

## (4) TEACHING and LEARNING METHODS - EVALUATION

| DELIVERY<br>*Face-to-face, Distance learning, etc.* | Face-to-face, Distance learning | |
|---|---|---|
| **USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY**<br>*Use of ICT in teaching, laboratory education, communication with students* | E-class, MS Teams | |

| TEACHING METHODS<br>*The manner and methods of teaching are described in detail.*<br>*Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.* | ***Activity*** | ***Semester workload*** |
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| | Lectures | 6 hours |
| | Non-guided study | 54 hours |
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| *The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS* | | |
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| | ***Course total*** | ***60 hours*** |

| STUDENT PERFORMANCE EVALUATION<br>*Description of the evaluation procedure*<br><br>*Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other*<br><br>*Specifically-defined evaluation criteria are given, and if and where they are accessible to students.* | •     Writing of a project |
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## (5) ATTACHED BIBLIOGRAPHY

*- Suggested bibliography:*

Instructor's notes & slides