COURSE OUTLINE

(1) General information

FACULTY/SCHOOL	School of Maritime and Industrial Studies		
DEPARTMENT	Department Of Maritime Studies		
LEVEL OF STUDY	Undergraduate		
COURSE UNIT CODE	ΝΑΑΓΓ46-1		
COURSE TITLE	Maritime Informatics		
INSTRUCTOR'S NAME	Associate Professor Alexandros Artikis		
in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours and the total credits		WEEKLY TEACHNG HOURS	CREDITS
Lectures and Tutorials			4 5
Add rows if necessary. The organization of methods used are described in detail unde COURSE TYPE Background knowledge, Scientific expertise, General Knowledge, Skills Development PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION: LANGUAGE OF EXAMINATION/ASSESSMENT:	English		
THE COURSE IS OFFERED TO ERASMUS STUDENTS	Yes		
COURSE WEBSITE (URL)	https://eclass.unipi.gr/courses/NAS315/		

(2) LEARNING OUTCOMES

Learning Outcomes

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

APPENDIX A

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

APPENDIX B

• Guidelines for writing Learning Outcomes

Upon completion of the course, the students will be able to:

- Understand the concepts of maritime data analytics.
- Develop SQL queries for extracting actionable knowledge from maritime data.
- Understand complex maritime event recognition.

General Competences

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

Search for, analysis and synthesis of data and information by the use of appropriate

technologies,

Adapting to new situations

Decision-making

Individual/Independent work

Group/Team work

Group, ream work

Working in an international environment Working in an interdisciplinary environment

Introduction of innovative research

Project planning and management Respect for diversity and multiculturalism

Environmental awareness

Social, professional and ethical responsibility and

sensitivity to gender issues

Critical thinking

Development of free, creative and inductive thinking

(Other.....citizenship, spiritual freedom, social

awareness, altruism etc.)

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Adapting to new situations

Decision-making

Individual/Independent work

Group/Team work

Project planning and management

Critical thinking

Development of free, creative and inductive thinking

(3) COURSE CONTENT

- Maritime reporting systems.
- Maritime data.
- Maritime data analytics.
- Trajectory simplification.
- Data-driven shipping finance.

(4) TEACHING METHODS--ASSESSMENT

MODES OF DELIVERY	Face-to-face, in-class lecturing		
Face-to-face, in-class lecturing,			
distance teaching and distance			
learning etc.			
USE OF INFORMATION AND	Use of ICT in teaching; use of eClass; use of software		
COMMUNICATION	platform illustrating game theoretic concepts.		
TECHNOLOGY			
Use of ICT in teaching, Laboratory			
Education, Communication with			
students			
COLIDSE DESIGN	Activity/Method	Semester workload	
COURSE DESIGN	Lectures	46	

Description of teaching techniques,		
practices and methods:		
Lectures, seminars, laboratory		
practice, fieldwork, study and analysis		
of bibliography, tutorials, Internship,		
Art Workshop, Interactive teaching,		
Educational visits, projects, Essay		
writing, Artistic creativity, etc.		

The study hours for each learning activity as well as the hours of self-directed study are given following the principles of the ECTS.

Tutorials	10
Coursework	29
Study and analysis	40
Total	125

STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS

Detailed description of the evaluation procedures:

Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other.....etc.

Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students.

- Final written exam.
- Coursework.

(5) SUGGESTED BIBLIOGRAPHY:

-Suggested bibliography:

A. Artikis and D. Zissis. Guide to Maritime Informatics. Springer. 2021.