COURSE OUTLINE

(1) OVERVIEW

SCHOOL	MARITIME & INDUSTRY		
DEPARTMENT	INDUSTRIAL MANAGEMENT & TECHNOLOGY		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	ΤΕΟΔΕ14	SEMESTER	1
COURSE TITLE	FUNDAMENTALS OF INDUSTRIAL MANAGEMENT & TECHNOLOGY		

DISCRETE TEACHING ACTIVITIES *In cases where ECTS credits are awarded to distinct components of the course (e.g., Lectures, Laboratory Exercises, etc.), please indicate them separately. If the credits are awarded as a whole for the entire course, please state the weekly teaching hours and the total number of credits*	WEEKLY TEACHING HOURS	ECTS
Lectures	3	2.5
Please add additional rows if needed. A detailed description of the teaching organization and instructional methods is provided in Section (4).		

COURSE TYPE *core (C), core elective (CE), elective (E) - background, specialization, skill development*	C – Background
PREREQUISITE COURSES:	None.
LANGUAGE OF TEACHING AND EXAMINATIONS:	Greek (English for ERASMUS students)
THIS COURSE IS AVAILABLE TO ERASMUS STUDENTS	Yes
COURSE WEBPAGE (URL)	

(2) LEARNING OUTCOMES

Learning Outcomes

The learning outcomes of the course are described, specifying the particular knowledge, skills, and competencies at the appropriate level that students will acquire upon successful completion of the course.

Please refer to Appendix A

- *Description of the Level of Learning Outcomes for each study cycle according to the Qualifications Framework of the European Higher Education Area.*
- *Descriptive Indicators of Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B.*
- *Concise Guide for Writing Learning Outcomes*

The course aims to welcome first-year students of the Undergraduate Program in Industrial Management and Technology, offering them a comprehensive and well-rounded introduction to the fundamental concepts, applications, and overall philosophy of the field. Through ten interactive and thematic seminars, students will gain:

- A broad understanding of Industrial Management and its connection with industrial technology.
- Insight into the structure, objectives, and rationale of the study program.
- Guidance on organizing and managing their studies.
- Awareness of the professional prospects and academic opportunities that a degree in Industrial Management and Technology provides.

The course encourages active participation and concludes with the completion of a brief individual or group project.

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

- Recognize the basic concepts of Industrial Management and distinguish it from related scientific fields.
- Understand how technology and production processes are integrated into management principles.
- Analyze the structure, courses, and developmental logic of the study program.
- Assess their personal expectations and goals based on the industry's prospects.
- Develop basic skills in study management, career orientation, and personal organization.

General Competences

Taking into account the general competences that a graduate should have acquired (as listed in the Diploma Supplement and outlined below), which of these competences does the course aim to develop?

Searching, analyzing, and synthesizing data and information, using the necessary technologies	*Project design and management*
Adaptation to new situations	*Respect for diversity and multiculturalism*
Decision making	*Respect for the natural environment*
Autonomous work	*Demonstration of social, professional, and ethical responsibility and sensitivity to gender issues*
Teamwork	*Exercising critical and self-critical thinking*
Working in an international environment	*Promotion of free, creative, and inductive thinking*
Working in an interdisciplinary environment	*…*
Generation of new research ideas	*Other competences: …*

- Adaptation to new situations
- Working in an interdisciplinary environment
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Demonstration of social, professional, and ethical responsibility and sensitivity to gender issues

(3) COURSE CONTENT

The course consists of ten three-hour seminar sessions, each delivered by a different instructor. During these seminars, thematic units are developed that reflect the breadth and interdisciplinary nature of the Study Program, offering students the opportunity to gain a comprehensive understanding of the field. The topics addressed include, indicatively, the following:

WEEK	THEMATIC UNIT
1	**Introduction to the Undergraduate Program in Industrial Management & Technology** Presentation of the Department, introduction to the curriculum and its main components (structure, types of courses, academic progression, how to "read" the curriculum and plan one's studies). Discussion of student expectations.
2	**The student's role and the management od studies** Study habits, academic planning, use of resources (library, digital platforms, student support services), development of skills and competencies.
3	**The Field of Industrial Management** Introduction to discipline and conceptual distinction from other management fields (e.g., Business Administration). Analysis of the field's identity.
4	**The Field of Industrial Technology** Technological applications supporting production and managerial decision-making. Real-world application examples.
5	**Interaction between the Environment and Industry** Presentation of the impact of environmental parameters on industrial operations and management decisions, with emphasis on promoting sustainability and managing environmental impacts and the supply chain effectively.
6	**The Role of Energy in Industry** Overview of the importance of energy management in optimizing production, reducing costs, and achieving environmental goals in industrial settings.
7	**The Digital Age and Industrial Transformation** Introduction to digital technologies and information infrastructures that are transforming industrial management and production, improving efficiency and process control.
8	**Entrepreneurship and Innovation** Exploration of the role of innovation in industry and opportunities for entrepreneurship through the integration of technology and management.
9	**Contemporary Trends and Challenges in Industrial Management & Technology** Discussion of major transformations currently impacting the industrial world (circular economy, ESG, corporate social responsibility).
10	**Studies and Career Planning: Designing the Next Step**

	Connecting the curriculum with professional pathways and academic development (graduate studies, internships, labor market opportunities).

Furthermore, articles, audiovisual lecture material, web links to useful resources, exercises, and software are uploaded in electronic format on the eClass platform.

(4) TEACHING and LEARNING METHODS - ASSESSMENT

TEACHING MODE *Face-to-face, in-class lecturing, distance teaching and distance learning etc.*	• Face-to-face in a classroom • Distance teaching & learning (if required)
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY *Use of ICT in Teaching, Laboratory Education, Communication with students*	**Teaching**: Lectures using modern audiovisual equipment, learning support through the eClass electronic platform, synchronous distance teaching via MS Teams. **Communication with students**: face-to-face during office hours, email, eClass platform, MS Teams tools
Organization of Teaching *A detailed description of the teaching methods and approach is provided.* *Lectures, seminars, laboratory exercises, fieldwork, study and analysis of literature, tutorials, internships (placements), clinical practice, artistic workshops, interactive teaching, educational visits, project work, writing assignments, artistic creation, etc.* *The student's study hours for each learning activity, as well as the hours of independent study, are specified in accordance with the principles of ECTS*	

Activity	Semester Workload
Seminars	30
Participation in course activities	10
Preparation for the seminars	10
Self-study of seminar material	12
Consultation Support	0.5
Course Total	62.5

STUDENT ASSESSMENT *Description of the assessment process* *Language of assessment, assessment methods, formative or summative evaluation, multiple-choice tests, short-answer questions, essay questions, problem-solving, written assignments, reports, oral examinations, public presentations, laboratory work, clinical patient examination, artistic interpretation, other(s)* *Explicitly state assessment criteria and information on whether and where these criteria are accessible to students are included.*	**Language of Assessment**: Greek (English for ERASMUS students) **Assessment Mode**: Face-to-face and/or distance learning (if required) **Assessment Methods**: Students are assessed on a pass/fail basis. The final grade of the course is determined 100% by the students' participation in the course activities. It is noted that the course grade is not included in the calculation of the overall degree grade. Attendance at the seminars is a fundamental and mandatory requirement of the course. To successfully complete the course, students must attend at least five (5) out of the ten (10) scheduled seminars. If the minimum attendance requirement is not met, the student will not be considered to have successfully completed the course and will be required to retake it in a subsequent academic year. **Students with Learning Difficulties**: not applicable. **Disclosure of Assessment Criteria**: The assessment criteria are communicated during the first class and are clearly stated on the course website and the eClass platform. In cases of documented inability to attend, the procedures outlined in the current Study Regulations apply.

(5) SUGGESTED BIBLIOGRAPHY

- Books:

- Journals:

- Other educational material:

- Seminar material and additional supporting resources provided by the instructors