

## COURSE OUTLINE

### 1. GENERAL INFORMATION

<b>SCHOOL</b>	MARITIME AND INDUSTRIAL STUDIES		
<b>DEPARTMENT</b>	INDUSTRIAL MANAGEMENT AND TECHNOLOGY		
<b>LEVEL OF STUDY</b>	POSTGRADUATE		
<b>COURSE UNIT CODE</b>	Δ-KOΛ106	<b>SEMESTER OF STUDY</b>	
<b>COURSE TITLE</b>	OPERATIONS COST ANALYSIS		
<b>INDEPENDENT TEACHING ACTIVITIES</b> <i>in case in which credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the whole of the course, give the weekly teaching hours and the total credits</i>	<b>WEEKLY TEACHING HOURS</b>	<b>CREDITS</b>	
	3	6	
<i>Add rows if necessary. The organization of teaching and the teaching methods used are described in detail at section 4.</i>			
<b>COURSE TYPE</b> <i>general background, special background, specialized general knowledge, skills development</i>			
<b>PREREQUISITE COURSES:</b>			
<b>LANGUAGE OF INSTRUCTION and EXAMINATION/ASSESSMENT:</b>	Greek		
<b>THE COURSE IS OFFERED TO ERASMUS STUDENTS</b>			
<b>COURSE WEBSITE (URL)</b>			

### 2. LEARNING OUTCOMES

<p><b>LEARNING OUTCOMES</b></p> <p><i>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:</i></p> <p>APPENDIX A</p> <ul style="list-style-type: none"> <li>• <i>Description of the level of learning outcomes for each qualifications' cycle, according to the European Higher Education Area's Qualification Framework.</i></li> <li>• <i>Descriptors for Levels 6, 7 &amp; 8 of the European Qualifications Framework for Lifelong Learning and APPENDIX B</i></li> <li>• <i>Guidelines for writing Learning Outcomes</i></li> </ul>
<p>The aim of the course is the acquisition of Knowledge and skills in the application of the modern methodology of Activity Based Costing (ABC) to the processes of a company. ABC was originally developed to solve the problem that many managers could perceive through their experience but could not demonstrate through traditional costing systems. Today, ABC systems are recognized as the most modern (state-of-the-art) cost control technique, finding application in a wide range of activities and businesses worldwide.</p> <p>Upon successful completion of the course, the students will be able to:</p> <ul style="list-style-type: none"> <li>• be familiar with the basic concepts of Activity Based Costing methodology.</li> <li>• to know and operate a powerful and integrated decision support system which will be based on ABC method as it is applied with its principles.</li> </ul>

- understand that the smooth operation, development and above all the profitability of the business depends on the acquisition and retention of satisfied customers and on the correct measurement and correct allocation of costs.

### 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 aims*

*Search for, analysis and synthesis of data and information, by the use of technologies that are necessary according the case*

*Adapting to new situations*

*Decision-making*

*Independent work*

*Team work*

*Working in an international environment*

*Working in an interdisciplinary environment*

*Introduction of innovative research*

*Project planning and management*

*Respect for difference and multiculturalism*

*Environmental awareness*

*Social, professional and ethical responsibility and sensitivity to gender issues*

*Critical consciousness, criticism and self-criticism*

*Development of free, creative and inductive thinking*

The general competences that the students should have acquired and that the course is aimed at are:

- Analysis and synthesis of data and information, to solve problems related to costing
- Decision making
- Project planning and management
- Ability to work autonomously as well as in a team with other business departments

### 3. COURSE CONTENT

The course covers the following sections:

- Traditional Costing Systems
- Basic principles Activity Based Costing (ABC)
- Benefits and requirements of ABC
- Segregation of fixed, variable, overhead, direct and indirect costs
- Process assignment to products and customers
- Activities Identification – Questionnaires
- Activities and Cost Objects
- Resource Assignment to activities
- Cost Drivers Identification
- Profit/Loss analysis per product or service per customer
- Results Interpretation – Management reports

A combination of teaching and learning methods will be used in order to actively involve students and emphasize on the practical application of the topics under consideration: lectures using audiovisual media, analysis and discussion of scientific texts and study of real cases.

In addition, articles, audiovisual lecture material, web addresses, useful information, exercises and case studies are posted at eclass.

### 4. TEACHING METHODS - ASSESSMENT

#### TEACHING MODE

*Face-to-face, in-class lecturing, on distance teaching and distance learning etc.*

In-class lecturing. The course will take the form of three-hour seminar lectures. Five (5) three-hour lectures will be devoted to the complete presentation and analysis of existing and applied study examples (case studies). Computer problem solving will accompany the lectures and there will be a presentation and demonstration by viewing the computer screen and guiding the costing model analysis

	process step by step. All course material will be distributed on CD.																
<b>USE OF INFORMATION AND COMMUNICATION TECHNOLOGY</b> <i>Use of ICT in Teaching, Laboratory Education, Communication with students</i>	<b>Teaching:</b> Lectures with audiovisual media, support of the learning process through the eclass platform. <b>Communication with students:</b> Face-to-face at office hours, email, eclass, skype and Microsoft teams																
<b>COURSE DESIGN</b> <i>Description of teaching techniques, practices and methods: Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, clinical practice, Art Workshop, Interactive teaching, Educational visits, project, Essay writing, Artistic creativity, etc.</i>  <i>The study hours for each learning activity as well as the hours of non- directed study are given according to the principles of the ECTS</i>	<table border="1"> <thead> <tr> <th><i>Activity / Method</i></th> <th><i>Semester Workload</i></th> </tr> </thead> <tbody> <tr> <td>Lectures</td> <td>30</td> </tr> <tr> <td>Study and analysis of bibliography</td> <td>52</td> </tr> <tr> <td>Individual Work</td> <td>4,5</td> </tr> <tr> <td>Self-study of lecture material</td> <td>60</td> </tr> <tr> <td>Exams (written)</td> <td>3</td> </tr> <tr> <td>Counselling</td> <td>0,5</td> </tr> <tr> <td>Course Total</td> <td><b>150</b></td> </tr> </tbody> </table>	<i>Activity / Method</i>	<i>Semester Workload</i>	Lectures	30	Study and analysis of bibliography	52	Individual Work	4,5	Self-study of lecture material	60	Exams (written)	3	Counselling	0,5	Course Total	<b>150</b>
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<b>STUDENT PERFORMANCE EVALUATION/ASSESSMENT METHODS</b> <i>Detailed description of the evaluation procedures: Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice questionnaires, short- answer questions, open-ended questions, problem solving, written work, Essay/report, oral exam, public presentation, laboratory work, art interpretation, other.....etc</i>  <i>Evaluation criteria are specifically defined and given as well as if and where they are reported and accessible to students.</i>	<p><b>Language of exams:</b> Greek</p> <p><b>Assessment Methods:</b> Course material is posted at eclass during the semester. The final grade of the course is as follows:</p> <ul style="list-style-type: none"> <li>• 30% from student's individual work - project</li> <li>• 70% of the final grade will result from the score on a final written exam where participants will be asked to complete a test covering the whole of the taught course content, constituted of multiple-choice questions.</li> </ul> <p>In case of failure, the student may participate in the September re-sits.</p> <p>The evaluation of students with special learning difficulties in writing and reading (as certified and qualified by a competent institution) is performed according to the relevant procedure decided by the Department Assembly.</p> <p><b>Notification of the Assessment Criteria:</b> The evaluation criteria are made known during the first lecture and are clearly stated on the course website and/or eclass. Students have the opportunity to receive explanations about the grade they received.</p>																

## 5. SUGGESTED BIBLIOGRAPHY

<p>- Bibliography</p> <ul style="list-style-type: none"> <li>• Robert S. Kaplan, Steven R. Anderson, 2007, <i>Time-Driven Activity-Based Costing</i></li> <li>• Fisher, J. G., Krumwiede, K., 2012, <i>Product costing systems: Finding the right approach</i></li> <li>• Garrison, R.H., Noreen, E.W., and Brewer, P.C., 2012, <i>Managerial accounting</i></li> <li>• Gary Cokins, 2001, <i>ACTIVITY-BASED COST MANAGEMENT an Executive's Guide</i></li> <li>• Κεχράς Ιωάννης, 2009, <i>Η σύγχρονη κοστολόγηση κατά δραστηριότητα</i></li> <li>• Γκάτσος Δημήτριος, 2019, <i>Κοστολόγηση Βάσει Δραστηριοτήτων (ABC)</i></li> </ul>
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- **Συγγελοπούλου Μαρία**, 2014, *Activity Based Costing*
- **Vlasios Giannakainas**, 2004, *Anatomy of Business Logistics*

- *Lecture notes*