

COURSE OUTLINE

1. GENERAL

SCHOOL	APPLIED ECONOMIC AND SOCIAL SCIENCES		
ACADEMIC UNIT	AGRIBUSINESS AND SUPPLY CHAIN MANAGEMENT		
LEVEL OF STUDIES	<i>Undergraduate</i>		
COURSE CODE	5810	SEMESTER	8
COURSE TITLE	REVERSE SUPPLY CHAIN AND CIRCULAR ECONOMY		
INDEPENDENT TEACHING ACTIVITIES		WEEKLY TEACHING HOURS	CREDITS
Lectures		4	5
COURSE TYPE	Special Background		
PREREQUISITE COURSES	NO		
LANGUAGE OF INSTRUCTION and EXAMINATIONS	Greek		
IS THE COURSE OFFERED for ERASMUS STUDENTS?	YES (in English)		
COURSE WEBSITE (URL)	https://oeclass.aua.gr/eclass/		

2. LEARNING OUTCOMES

Learning Outcomes
<p>The course examines the material product flows that have completed their life cycle. The alternatives available to businesses and organizations are analyzed and the role and obligations of the parties involved are examined. The concepts of industrial ecology and circular economy, as well as 'smart consumption', in relation to the creation of closed-loop supply chains are also examined. In addition, the economic and environmental benefits of reverse logistics are highlighted and linked to the circular economy and sustainable consumption model.</p> <p>Upon successful completion of the course, the student will be able to:</p> <ul style="list-style-type: none"> explains the importance of reverse supply chains describes alternative reverse logistics network options develop concrete proposals on how to improve the effectiveness and efficiency of expanded supply chains explains the concepts of circular economy and industrial ecology understand the correlation of reverse supply chains with the circular economy design supply chains towards the transition to a circular economy model

General Competences

- Adapting to new situations
- Decision-making
- Independent work
- Teamwork
- Working in an International Environment
- Working in an Interdisciplinary Environment
- Promotion of new Research Ideas
- Respect for the Natural Environment
- Project Planning and Management
- Respect for Diversity and Multiculturalism
- Demonstration of social, professional and ethical responsibility and gender sensitivity
- Criticism and self-criticism
- Promotion of free, creative and inductive thinking

3. SYLLABUS

1. Introduction
2. Introduction to basic concepts
3. Industrial ecology and symbiosis (1)
4. Industrial ecology and symbiosis (2)
5. Industrial ecology and symbiosis (3)
6. Industrial ecology and symbiosis (4)
7. Circular economy (1)
8. Circular economy (2)
9. Circular economy (3)
10. "Smart" consumption (1)
11. "Smart" consumption (2)
12. Case studies
13. Special topics

A combination of teaching and learning methods will be used aiming at the active participation of students and the practical application of the thematic units under consideration: lectures using audiovisual means, analysis and discussion of case studies on real operational issues, experiential (group) exercises, as well as projection of relevant videos.

In addition, articles in electronic form, audiovisual lecture material, web addresses, useful information, case studies and exercises are posted in eclass for the students' practice.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY

Face -to-face, Distance learning

<p>USE OF INFORMATION and COMMUNICATIONS TECHNOLOGY</p>	<ul style="list-style-type: none"> • Support of the learning process through the University's AUA Open eClass platform (integrated e-Course Management System) • Support of lectures using presentation software • Use of audiovisual material • Use of web applications <p>Communication with students: face to face at office hours, email, eclass platform</p>														
<p>TEACHING METHODS</p>	<table border="1"> <thead> <tr> <th><i>Activity</i></th><th><i>Workload</i></th></tr> </thead> <tbody> <tr> <td>Lectures (direct)</td><td>52</td></tr> <tr> <td><i>Writing paper/ papers</i></td><td>32</td></tr> <tr> <td><i>Independent Study</i></td><td>39</td></tr> <tr> <td><i>Advisory support</i></td><td>0,5</td></tr> <tr> <td><i>Exams</i></td><td>2</td></tr> <tr> <td><i>Course Total (Approximately 25 hours of workload per credit unit 125.5)</i></td><td>125,5</td></tr> </tbody> </table>	<i>Activity</i>	<i>Workload</i>	Lectures (direct)	52	<i>Writing paper/ papers</i>	32	<i>Independent Study</i>	39	<i>Advisory support</i>	0,5	<i>Exams</i>	2	<i>Course Total (Approximately 25 hours of workload per credit unit 125.5)</i>	125,5
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<p>STUDENT PERFORMANCE EVALUATION</p>	<p>The evaluation process is in the language that the course is taught (Greek or English) and consists of:</p> <ol style="list-style-type: none"> Compulsory written final examination at the end of the semester (weighting factor 70% at least) which may includes: <ul style="list-style-type: none"> • Multiple choice questionnaires • Open-ended questions • Problem solving • Oral examination <p>Evaluation criteria: correctness, completeness, clarity</p> Optional written exam or essay during the semester (weighting factor 30%) which may includes: <ul style="list-style-type: none"> • Multiple choice questionnaires • Open-ended questions • Problem solving • Essay/report • Oral examination <p>Evaluation criteria: correctness, completeness, clarity</p> 														

	<p>Special learning difficulties:</p> <p>Students with special learning difficulties in writing and reading (as they are certified and characterized by a competent body) are examined based on the procedure provided by the Department.</p> <p>Specifically-Defined Criteria:</p> <p>The evaluation criteria are made known during the first lesson and are clearly stated on the course website and the AUA Open e-class platform. The answers to the exam questions are posted on the AUA Open e-Class platform after the exam. The students are allowed to see their exam paper after its grading (during the announced office hours) and receive explanations about the grade they received.</p>
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5. ATTACHED BIBLIOGRAPHY

Suggested Bibliography:

- Βλαχοκώστας, Χ. (2022). Αειφορική Διαχείριση & Κυκλική Οικονομία. Θεσσαλονίκη: Εκδόσεις Γιαχούδη
- Αχιλλας, Χ., Μπόχτης, Δ., Αηδόνης, Δ. & Φωλίνας, Δ. (2020). Αειφόρες Εφοδιαστικές Αλυσίδες. Αθήνα: ΚΡΙΤΙΚΗ
- Dyckhoff, H., Lackes, R. & Reese, J. (2013). Supply Chain Management and Reverse Logistics. Berlin: Springer.
- Gupta, S.M. (2016). Reverse Supply Chains: Issues and Analysis. Boca Raton, Florida: CRC Press.
- Μαλινδρέτος, Γ. (2015). Εφοδιαστική αλυσίδα, logistics και εξυπηρέτηση πελατών. Αθήνα: Σύνδεσμος Ελληνικών Ακαδημαϊκών Βιβλιοθηκών.

Related academic Journals:

- Supply Chain Management: An International Journal
- Journal of Cleaner Production
- International Journal of Production Research
- Journal of Operations Management