APPLIED ECONOMICS WITH A FOCUS ON THE ENVIRONMENT – ESG

1. GENERAL

1. GLINLINAL					
SCHOOL	SCHOOL OF ENGINEERING				
DEPARTMENT	CIVIL ENGINEERING/ MSc APPLIED MATHEMATICS				
LEVEL OF STUDIES	MSc - LEVEL 7				
COURSE CODE	SEMESTER 2 nd SEMESTER		SEMESTER		
COURSE TITLE	APPLIED ECONOMICS WITH A FOCUS ON THE ENVIRONMENT – ESG				
TEACHING ACTIVITIES If the ECTS Credits are distributed in distinct parts of the course e.g. lectures, labs etc. If the ECTS Credits are awarded to the whole course, then please indicate the teaching hours per week and the corresponding ECTS Credits.			TEACHING HOURS PER WEEK		ECTS CREDITS
			3		7,5
Please, add lines if necessary. Teaching methods and organization of the course are described in section 4.					
COURSE TYPE Background, General Knowledge, Scientific Area, Skill Development	Background				
PREREQUISITES:	NO				
TEACHING & EXAMINATION LANGUAGE:	Greek				
COURSE OFFERED TO ERASMUS STUDENTS:	NO				
COURSE URL:					

2. LEARNING OUTCOMES

Learning Outcomes

Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course.

After the successful completion of the course, the postgraduate student will have: understood the importance of the basic concepts of economic science, the functioning mechanisms of the economy and society, the way the economy is interconnected with environmental systems, will have familiarized himself with the concepts of microeconomic environment and the ways of operating businesses, will have acquired the ability to apply environmental business management techniques, and analyze business environmental information. He will also have acquired the ability to write environmental management

programs and the ability to conduct economic analyzes of environmental business management.

General Skills

Name the desirable general skills upon successful completion of the module

Search, analysis and synthesis of data and information, Project design and management

ICT Use Equity and Inclusion

Adaptation to new situations Respect for the natural environment

Decision making Sustainability

Autonomous work Demonstration of social, professional and moral responsibility and

sensitivity to gender issues

Teamwork

Critical thinking
Working in an international environment

Working in an interdisciplinary environment

Promoting free, creative and inductive reasoning

Production of new research ideas

- Generation of new research ideas
- Adaptation to new situations
- Decision making
- Search, analysis and synthesis of data and information, using and technologies
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Demonstrate social, professional and ethical responsibility and sensitivity to gender issues
- · Promotion of free, creative and inductive thinking

3. COURSE CONTENT

Introduction to economics, consumer theory analysis, cost theory analysis of firms, product theory analysis of firms, production function analysis, consumption, saving and public expenditure function analysis, two-sector mathematical model analysis, three-sector mathematical model analysis, environmental performance theories of firms, techniques for applying environmental performance techniques for businesses, techniques for measuring the environmental performance of businesses, techniques for disclosing business environmental performance information and business collaboration techniques in environmental management and ESG information, GRI standards, SASBs and Integrative Reporting.

4. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD	Distance learning
Face to face, Distance learning, etc.	
USE OF INFORMATION &	Use of ICT technologies in Teaching and
COMMUNICATIONS TECHNOLOGY	Communication with students
(ICT)	
Use of ICT in Teaching, in Laboratory	
Education, in Communication with students	

TEACHING ORGANIZATION	Activity	Workload/semester
The ways and methods of teaching are	Lectures	39
described in detail.	Research & Analysis	0
	Review studies	108
Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis,	Examinations	3
Tutoring, Internship (Placement), Clinical	Total	150
Exercise, Art Workshop, Interactive learning,		
Study visits, Study / creation, project, creation, project. Etc.		
project. Ltc.		
The supervised and unsupervised workload per		
activity is indicated here, so that total workload		
per semester complies to ECTS standards.		
STUDENT EVALUATION		
Description of the evaluation process	Formalizations	
Assessment Lawrence Assessment Adobbada	Examinations	
Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test,		
Short Answer Questions, Essay Development		
Questions, Problem Solving, Written		
Assignment, Essay / Report, Oral Exam,		
Presentation in audience, Laboratory Report, Clinical examination of a patient, Artistic		
interpretation, Other/Others		
Please indicate all relevant information about the course assessment and how students are		
informed		

5. SUGGESTED BIBLIOGRAPHY

Νικολάου Ε.Ι., 2008. Περιβαλλοντική – Αειφόρος Λογιστική, Εκδόσεις Γκιούρδας.

Νικολάου Ε.Ι., Ευαγγελινός Η.Κ. και Σοφούλης Μ.Κ., 2020. Το Πλαίσιο για την Κοινωνικά Υπεύθυνη, Ηθική και Πράσινη Οικονομία Εκδόσεις Gutenberg, Αθήνα.

Νικολάου Ε.Ι. και Ευαγγελινός Η.Κ., Λογιστική Αειφόρου Επίδοσης Επιχειρήσεων, Εκδόσεις Δισιγμα, Θεσσαλονίκη.

Tsalis T., Grigoroudis E., Tsagarakis K. and Nikolaou E.I., 2015. A Dynamic Sustainability Balanced Scorecard methodology as a navigator for exploring the dynamics and complexity of corporate sustainability strategy, *Civil Engineering and Environmental Systems*, 32 (4), 281-300.

Nikolaou E.I., Evangelinos K. and Filho L., 2015. A System Dynamic approach for Exploring the Effects of Climate Change Risks on Firms' Economic Performance, *Journal of Cleaner Production*, 103, 499-506.

Nikolaou I.E. and Tsalis, T. (2018). A framework to evaluate eco-and social-labels for designing a sustainability consumption label to measure strong sustainability impact of firms/products. Journal of Cleaner Production, 182, 105-113.

Chatzitheodorou, K., Skouloudis, A., Evangelinos, K., & Nikolaou, I. (2019). Exploring socially responsible investment perspectives: A literature mapping and an investor classification. *Sustainable production and consumption*, *19*, 117-129.

Nikolaou, I. E., Tsalis, T. A., & Evangelinos, K. I. (2019). A framework to measure corporate sustainability performance: A strong sustainability-based view of firm. Sustainable Production and Consumption, 18, 1-18.

ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Ioannis Nikolaou
Contact details:	inikol@env.duth.gr
Supervisors: (1)	NO
Evaluation methods: (2)	Written examination by distance learning methods
Implementation Instructions: (3)	• Failure to enter or entry at an unscheduled time will result in the student being disqualified from the exam. • Throughout the exam, examinees are connected to MS Teams and should have an open microphone so that there is uninterrupted audio contact between the examinee and the examiner. At the same time, they should immediately activate their microphone and camera in case they are asked for identification. • Required technological equipment: Ability to connect to the internet, use a camera, speakers, microphone, ability to scan/photograph the manuscript and create a pdf or compressed file in case of more than one page of response to a topic. • For the written exam, the examinees: (1) they will read the topics that will be posted in the eclass in the "Tasks" of the course one by one, (2) they will write their answer in Ms-Word (3) they will create a pdf or compressed zip/rar file and (4) they will upload it to eClass — Assignments - Submit Assignment, in a predetermined time (for each topic will be given a time proportional to its difficulty and extent) CAUTION! The file must be readable, otherwise they cannot be corrected and will be rejected. • Within the framework of actions for the protection of personal data, it is prohibited to record the examination process in any way, as well as to record or publish or post on websites or share with third parties or transmit or distribute in any way all or part of the distance examination. Also, it is the students' responsibility to protect their personal data by showing only what is required on camera. • Non-compliance of examinees with the rules of the examination and a finding of fraud on their part will result in the application of the plagiarism provisions. In the case of inability to participate in a remote assessment, the decision of the Rector's Council of the IFT will be made.

- 6. written assignment or/and exercises
- 7. written or oral examination with distance learning methods, provided that the integrity and reliability of the examination are ensured.
- (27) In the Implementation Instructions section, the teacher notes down clear instructions to the students:
 - a) in case of **written assignment and / or exercises:** the deadline (e.g. the last week of the semester), the means of submission, the grading system, the grade percentage of the assignment in the final grade and **any other** necessary information.
 - b) in case of **oral examination with distance learning methods:** the instructions for conducting the examination (e.g. in groups of X people), the way of administration of the questions to be answered, the distance learning platforms to be used, the technical means for the implementation of the examination (microphone, camera, word processor, internet connection, communication platform), the hyperlinks for the examination, the duration of the exam, the grading system, the percentage of the oral exam in the final grade, the ways in which the inviolability and reliability of the exam are ensured and any other necessary information.
 - c) in case of **written examination with distance learning methods**: the way of administration of the questions to be answered, the way of submitting the answers, the duration of the exam, the grading system, the percentage of the written exam of the exam in the final grade, the ways in which the integrity and reliability of the exam are ensured and any other necessary information.

There should be an attached list with the Student Registration Numbers only of students eligible to participate in the examination.