



COURSE OUTLINE

1. GENERAL			
SCHOOL	AGRICULTURAL AND FORESTRY SCIENCE		
DEPARTMENT	Department of Forestry and Management of the Environment and		
	Natural Resources		
LEVEL OF STUDIES	LEVEL 7		
COURSE CODE	ΔΣΠΜΣΠΣΠΕΑΕ1	SEMESTER	1 st
COURSE TITLE	RESEARH METHODOLOGY		
TEACHING A	CTIVITIES		
in case the ECTS Credits are distributed	, , , , , , , , , , , , , , , , , , , ,		
lectures, labs etc. If the ECTS Credits ar			
then please note down the teach	- ·	WEEK	
corresponding E	CTS Credits.	2.2	7.5
		2.3	7.5
Add lines if passages, The togeting an	ranization and mothods used are		
Add lines if necessary. The teaching organization and methods used are described in the point 4.			
COURSE TYPE	Scientific Area		
Background, General Knowledge,			
Scientific Area, Skill Development			
PREREQUISITES:	No		
TEACHING & EXAMINATION	Greek		
LANGUAGE:	Greek		
COURSE OFFERED TO ERASMUS	No		
STUDENTS:			
URL COURSE:	https://eclass.duth.gr/course	00/1/125208/	
UNE COURSE.	https://eclass.duth.gr/courses/1425298/		

2. LEARNING OUTCOMES

Adaptation to new situations

Learning Outcomes Please describe the learning outcomes of the course: Knowledge, skills and abilities acquired after the successful completion of the course. The aim of the course is to familiarize students with the methods of collecting, organizing, presenting and analyzing statistical data and the techniques of searching and processing scientific literature and the organization and writing of research papers. Upon successful completion of the course, the student: Has understood the basic concepts of statistics, the basic methods of collecting, organizing and presenting statistical data. Has knowledge of the analysis tools and techniques and uses them in conducting statistical calculations and analyses. Is able to distinguish deductive from inductive methods of analysis and choose the most suitable method for estimating parameters and drawing statistical conclusions. Uses the appropriate tools to search for scientific literature, selects the useful for the purpose of his work bibliographic papers and synthesizes scientific knowledge to serve the goals of his work. Combines his knowledge to synthesize the results of statistical analyses with literature review and to present a research topic in a structured work. **General Skills** Taking into account the general skills that the graduate must have acquired (as they are listed in the Diploma Supplement and are listed below), which of them is intended (for the course)? Search, analysis and synthesis of data and information, Project design and management using the necessary technologies Equity and Inclusion



Respect for the natural environment





ΛΟΚΡΙΤΕΙΟ ΠΑΝΕΠΙΣΤΗΜΙΟ ΘΡΑΚΗΣ

Decision making	Sustainabilit
Autonomous work	Demonstrat
Teamwork	sensitivity to
Working in an international environment	Critical think
Working in an interdisciplinary environment	Promoting f
Production of new research ideas	

tion of social, professional and moral responsibility and o gender issues king free, creative and inductive thinking

Search, analysis and synthesis of data and information, using the necessary technologies Autonomous work

Working in an interdisciplinary environment

Respect for the natural environment

Production of new research ideas

Promoting free, creative and inductive thinking

3. COURSE CONTENT

- 1. Introductory concepts of research methodology, basic concepts of statistics
- 2. Methods for collecting statistical data
- 3. Organization and presentation of statistical data
- 4. Methods of descriptive statistical analysis
- 5. Correlation Regression
- 6. Parameter estimation
- 7. Hypothesis testing
- 8. Features and types of scientific research
- 9. Phases-stages of scientific research
- 10.Key parts of scientific work
- 11. Research wording and writing of a scientific paper
- 12.Structure of scientific work
- 13.Bibliographic referencing

1. LEARNING & TEACHING METHODS - EVALUATION

TEACHING METHOD Face to face, Distance learning, etc.	Face to face		
USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT) Use of ICT in Teaching, in Laboratory Education, in Communication with students	Use of ICT in Teaching and Laboratory Education Electronic communication with students via e-mail or e-class		
TEACHING ORGANIZATION	Activity	Workload/semester	
The way and methods of teaching are described	Lectures	87.5	
in detail. Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliographic research & analysis,	Bibliographic research & analysis	25	
Tutoring, Internship (Placement), Clinical Exercise, Art Workshop, Interactive learning, Study visits, Study / creation, project, creation, project. Etc.	Paper/presentation preparation	75	
The student study hours for each learning			
activity are listed as well as the non-guided study hours so that the total workload at the	Total	187.5	
semester level corresponds to the ECTS standards.			
STUDENT EVALUATION	Final written exam (in Greek)	
Description of the evaluation process	Multiple Choice Test		
Assessment Language, Assessment Methods, Formative or Concluding, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay / Report, Oral Exam, Public Presentation, Laboratory Report, Clinical examination of a patient, Artistic interpretation, Other/Others	Written Assignment		







Explicitly defined assessment criteria and if and where are accessible to students are mentioned.

2. SUGGESTED BIBLIOGRAPHY

- 1. Halikias, M., Lalou, P., & Manolesou, A. (2015). Research methodology and introduction to Statistical Data Analysis with IBM SPSS STATISTICS [Laboratory Guide]. Kallipos, Open Academic Publications. https://hdl.handle.net/11419/5075.
- 2. Lagoumintzis, G., Vlachopoulos, G., & Koutsoyiannis, K. (2015). Research methodology in health sciences [Undergraduate textbook]. Callipos, Open Academic Publications. https://hdl.handle.net/11419/5356.
- 3. Data Science Textbook. https://docs.tibco.com/data-science/textbook.

ANNEX OF THE COURSE OUTLINE

Alternative ways of examining a course in emergency situations

Teacher (full name):	Spyros Galatsidas, Apostolos Kyriazopoulos,
Contact details:	sgalatsi@fmenr.duth.gr, apkyriaz@fmenr.duth.gr
Supervisors: (1)	NO
Evaluation methods: (2)	Written exam through the on-line learning platform e-class / Written Assignment / Exercises
Implementation Instructions: (3)	The course examination will take place with a written individual assignment / report that will be announced in the e-class. All task details and instructions will be contained in the active tools in the "Tasks" submenu.

(1) To be completed with YES or NO

(2) Note down the evaluation methods used by the teacher, e.g.

- written assignment or/and exercises
- written or oral examination with distance learning methods, provided that the integrity and reliability of the examination are ensured.
- (3) In the Implementation Instructions section, the teacher notes down clear instructions to the students:

 α) in case of written assignment and / or exercises: the deadline (e.g. the last week of the semester), the means of submitting them to the teacher, the grading system, the participation of the assignment in the final grade and every other detail that should be mentioned.

 β) 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 pronouncing topics, the applications to be used, the necessary technical means for the implementation of the examination (microphone, camera, word processor, internet connection, communication platform), the way the hyperlink is sent, the duration of the exam, the grading system, the participation of the exam in the final grade, the ways in which the inviolability and reliability of the exam is ensured and every other detail that should be mentioned.

 γ) in case of **written examination with distance learning methods**: the instructions for assigning the topics, the way of submitting the answers, the duration of the exam, the grading system, the participation of the exam in the final grade, the ways in which the integrity and reliability of the exam is ensured and every other detail that should be mentioned.

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

