

**COURSE OUTLINE**  
**ΔΠΕ791 – DEMOGRAPHY AND NATURAL RESOURCES**

**1. GENERAL**

<b>SCHOOL</b>	School of Technology		
<b>DEPARTMENT</b>	Department of Forestry, Wood Sciences and Design (Karditsa)		
<b>LEVEL</b>	Undergraduate		
<b>CODE</b>	ΔΠΕ791	<b>STUDENT SEMESTER</b>	7 <sup>th</sup>
<b>COURSE TITLE</b>	Demography and Natural Resources		
<b>ACTIVITIES</b>		<b>WEEKLY HRS</b>	<b>ECTS</b>
Lectures and Workshops		3	6
<b>TYPE OF COURSE</b>	Optional course – Course specialization		
<b>PREREQUISITES:</b>	None		
<b>LANGUAGE TEACHING AND EXAMINATION:</b>	Greek		
<b>THE COURSE OFFERED TO STUDENTS ERASMUS</b>	Yes		
<b>WEBPAGES COURSE (URL)</b>	It is expected, according to the rules provided by University of Thessaly.		

**2. LEARNING OUTCOMES**

<b>Learning Outcomes</b>
<p>The aim of the course is to familiarize students with the basic principles of demographic issues.</p> <p>After the successful completion of the course the students will be able to recognize: The aim of this course is to introduce students to the current scientific approaches and developments concerning the two-way relationship between demography and natural resources. In particular, the impact of demographic characteristics on economic growth, employment, investment, savings, and economic-productive activities in the coastal area. In addition, analyze the correlation between a dynamic demographic profile ('young' population) and economic growth, the nature and volume of demand, employment policy in the active population, innovation, dynamism, creativity. Finally, the students will approach the impact of population ageing. Students will acquire a proven knowledge and understanding of issues in the field of demography and the economic demography of natural resources. The students will be able to utilize the main theories and concepts of economic demography, sources of demographic data, tools of demography, methods and techniques of demographic analysis, and the socio-economic implications of demographic changes focusing on natural resources.</p> <p>At the end of the course the students will be able to acquire skills that will enable them to: - Understand what demography is, what the different fields are, what the main disciplines</p>

are and what the areas of application of the discipline are today,  
- understand the main sources of primary data used in demographic analysis, demographic indicators and demographic methods and techniques.

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

- analyze and manage some aspects of the socio-economic implications arising from demographic changes and population development prospects in relation to natural resources; and
- deepen their understanding of the most recent trends, which are already differentiated from those of the previous century and highlight the main demographic challenges of the coming decades.

The course is designed to provide the following competences :

- Adaptation to new situations (exploratory analysis of future developments/scenarios)
- Decision making
- Working in an interdisciplinary environment
- Exercising criticism and self-criticism
- Preparation of independent and team work in a future interdisciplinary environment.
- Respect for the natural environment
- Promotion of free, creative and deductive thinking

All the above is ensured by the content of the lectures, the active participation of the students during the lectures, the projects implemented in the course and through the presentation of the compulsory assignments.

#### **General Skills**

Upon successful completion of the course, the students will be able to develop and cultivate basic professional and social skills:

- Adaptation to new situations (exploratory analysis of future developments/scenarios)
- Decision making
- Working in an interdisciplinary environment
- Exercising criticism and self-criticism
- Preparation of independent and team work in a future interdisciplinary environment
- Respect for the natural environment
- Promotion of free, creative and deductive thinking

The above is ensured by the content of the lectures, the active participation of the students during the lectures, the projects implemented in the course and through the presentation of the compulsory assignments.

### **3. COURSE CONTENT**

This course is about the science of Demography and the deep and two-way interdependence of Population and Natural Resources. The emphasis of the course is on demography and population pressures on natural resources. Exploiting the socio-economic impacts of demographic changes on natural resources. Application of analytical tools and models of demography and natural resources. The content of the course focuses on issues related to:

1. Introduction to demography: basic concepts, importance of demographic characteristics and developments
2. Sources of demographic data: population censuses, registers, etc
3. Tools of demographic analysis. Methods and techniques of demographic analysis

4. Macro-economic implications of demographic developments
5. Demographic transition and economic development at world and European level
6. Analysis of the correlation between a dynamic or non-dynamic demographic profile and economic growth
7. Demography: Economic and social policies
8. The demographic situation of Greece in the context of the European Union
9. Population pressures and natural resources
10. Natural resources of Greece in the context of the European Union
11. Demographic situation - demographic prospects - natural resources
12. Impact of demography on economic growth, employment, investment, savings and economic-productive activities linked to natural resources
13. Case study

#### 4. TEACHING AND LEARNING METHODS - EVALUATION

<b>DELIVERY METHOD</b>	Face to face.	
<b>USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES</b>	Use of the course website on the e-class platform for posting (a) notes, (b) internet links, (c) announcements, search tools and social networks, etc. Use of PC, ppt slides, internet, interactive whiteboard, projector, video data projector.	
<b>MANAGEMENT OF TEACHING</b>	<b>Activity</b>	<b>Semester Workload</b>
	Lectures	39
	Individual and work study for term assignment	71
	Homework	40
	<b>Course Total</b>	<b>150</b>
<b>STUDENT EVALUATION</b>	The final grade for the students take into account: <ul style="list-style-type: none"> <li>• short answer questions from throughout the book (80%)</li> <li>• written essay and the presentation of the essay at the end of the semester (20%)</li> <li>• participation in courses and in course activities (lectures, visits, etc.)</li> </ul>	

#### 5. RECOMMENDED BIBLIOGRAPHY

1. Economics of Natural Resources and the Environment  
2<sup>nd</sup> edition, 2016  
Book code in Eudoxos : 102073016  
Author(s): Halkos G.
2. Economics of Natural Resources and the Environment  
Published: 2007  
Book code in Eudoxos: 31904  
Author(s) : Faucheux S. and J.F. Noel.