| LEVEL | *Undergraduate* | | |
|---|---|---|---|
| CODE | ΔΠΥ721 | STUDENT SEMESTER | 8th |
| COURSE TITLE | AGROFORESTRY | | |

| ACTIVITIES | | WEEKLY HRS | ECTS |
|---|---|---|---|
| Lectures | | 2 | |
| Workshops | | 1 | |
| **TOTAL** | | **3** | 5 |
| | | | |
| TYPE OF COURSE | Compulsory course / Direction course | | |
| PREREQUISITES: | None | | |
| LANGUAGE TEACHING AND EXAMINATION: | Greek | | |
| THE COURSE IS OFFERED TO ERASMUS STUDENTS | Yes | | |
| WEBPAGES COURSE (URL) | | | |

## 1. LEARNING OUTCOMES

**Learning Outcomes**

To provide the graduates of the Department with the essential background knowledge concerning the environmental, cultural, social and economic values of agroforestry (silvopastoral, silvoarable and agrosilvopastoral) systems, as well as the sufficient knowledge so that they can install and manage them in various ecological conditions. In that way, they will be able to design installation and management models of agroforestry systems.

**General Skills**

- Researching and performing analysis and synthesis of data and information by means of appropriate technology
- Working in a multidisciplinary context
- Adapting to new conditions
- Producing new research ideas
- Respect for the natural environment
- Decision-making

## 2. COURSE CONTENT

**Description of the theoretical part:**
Structure, classification and interactions of agroforestry systems - Productivity of agroforestry systems - Environmental and cultural values of agroforestry systems - Traditional agroforestry systems - Description of the most important agroforestry systems - Management of traditional agroforestry systems - Management of traditional agroforestry systems.

**Exercise / Lab Description:**
The exercises of the course are done one (1) hour per week. Attendance by students is mandatory by at least 50%. From the 1st lesson, the teacher points out the importance of this monitoring, but also of the theory, while incentives are given for the continuous participation of the students in it. Essentially, the exercises of the course are a continuation of the theory. The aim of the exercises is for the student to maximize the knowledge acquired from the theoretical part, with practical practice and development of constructive dialogue, solving questions and concerns, as well as the acquisition of

conscious knowledge and application of basic principles of the course in practice. Relevant directions, and rich material and instructions are posted in the e-class.

## 3. TEACHING AND LEARNING METHODS - EVALUATION

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|---|---|
| **DELIVERY METHOD** | The Herbartian approach in teaching is employed, which includes the following stages:<br><br>1. Preparing the students to receive new knowledge, mainly by utilizing their previous knowledge on the subject.<br><br>2. The new lesson unit is presented.<br><br>3. New knowledge is compared/associated with previous knowledge.<br><br>4. Generalization and conclusions.<br><br>5. Application of new knowledge in practice.<br><br>The lesson consists of two parts:<br><br>Theoretical part,<br><br>Practical work / Workshops<br><br>The **theoretical part** requires tha active participation of the students in the learning process that takes place in the classroom and involves the use of interactive tools. Students are encouraged to participate in research activities.<br><br>**Workshops** entail the compulsory participation of the students in activities they select from the activity list of each unit of the coursebook. Furthermore, important research findings in specific sectors of this scientific field are stated and discussed. Lastly, **educational field trips** take place during the semester, in which **student participation is compulsory**. |
| **USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES** | Flexible use of teaching aids based on information technology (multimedia, PC), video data projector, internet, e-class platform |

| **MANAGEMENT OF TEACHING** | *Activity* | *Semester Workload* |
|---|---|---|
| | Lectures | 40 |
| | Workshops | 25 |
| | Individual and work study for term assignment | 60 |
| | | |
| | *Course Total* | *125* |

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|---|---|
| **STUDENT EVALUATION** | (a) Student assessment for the theoretical part of the course takes place at the end of the semester by means of written examination which follows the format of all courses offered at the Department. By prior agreement, students can also be assessed for the theoretical part by means of progress tests that take place on a mutually agreed date during the semester, according to the Department schedule. Students who are entitled to participate in the assessment processes are those who |

|  | have participated in all the field trips that took place during the semester. The theoretical part accounts for the 65% of the final grade. |
|  | (b) Student assessment for the Workshops takes place at the end of the semester by means of written examination, which follow the format of all courses offered at the Department. Students who are entitled to participate in the assessment process are those who (a) have attended a minimum of 50% of the classes, and (b) have participated in all the field trips that took place during the semester. The assessment of the Workshops accounts for the 35% of the final grade. |

## 4. RECOMMENDED BIBLIOGRAPHY

Books offered to students through the *Eudoxus* platform:

- Papanastasis V.P. 2015. Agroforestry. Thessaloniki: Ziti Publications. (Eudoxus code: 50658654)
- Papanastasis V.P. 2009. Rangeland Livestock Development. Thessaloniki: Giahoudis Publications, p. 157 (Eudoxus code: 12545).
- Vrachnakis M. 2015. Rangeland Science. Kallipos, Open Academic Edition, p. 229. https://repository.kallipos.gr/handle/11419/1191 (Eudoxus code: 320084, in Greek)

Books offered besides the *Eudoxus* platform:

- Etienne M. 1996. Western European Silvopastoral Systems. INRA Editions. 276 p.
- Rigueiro-Rodríguez A., J. McAdam and M.R. Mosquera-Losada (eds). 2009. Agroforestry in Europe Current Status and Future Prospects, Springer, Berlin.