

General Arboriculture and Horticulture

GENERAL

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| SCHOOL | AGRICULTURE SCIENCE | | |
| DEPARTMENT | FOOD SCIENCE AND NUTRITION | | |
| STUDY LEVEL | 5 years | | |
| COURSE CODE | CP315 | SEMESTER OF STUDY | 5th |
| COURSE TITLE | General Arboriculture - Horticulture | | |
| INDEPENDENT TEACHING ACTIVITIES | | WEEKLY COURSES | CREDITS |
| <i>In case ECTS are awarded for distinct parts of the course e.g. Theory Lectures, Laboratory Practicals etc. If ECTS are awarded uniformly for the entire course, give the weekly teaching hours and total ECTS.</i> | | | |
| Theory Lectures | | 3 | |
| Exercises | | 3 | |
| TOTAL | | | 6 |
| COURSE TYPE | <i>General background and knowledge regarding General Pomology- Horticulture such as the cultivation of trees and vegetable crops</i> | | |
| <i>Background, Basic knowledge, Field of Science, Skill development</i> | | | |
| PREREQUISITES: | No | | |
| LANGUAGE: | Greek | | |
| IS THE COURSE OFFERED for ERASMUS STUDENTS? | No | | |
| COURSE WEB PAGE (URL) | https://food.uth.gr/ General Pomology- Horticulture | | |

LEARNING OUTCOMES

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| <p>Learning Outcomes</p> <p><i>The course learning outcomes, specific knowledge, skills and competences of an appropriate (certain) level, which students will acquire upon successful completion of the course, are described in detail. It is necessary to consult Appendix A</i></p> <ul style="list-style-type: none"> • <i>Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework</i> • <i>Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning</i> <p><i>And Appendix B</i></p> <ul style="list-style-type: none"> • <i>Guidelines for writing Learning Outcomes</i> <p><i>The course aims to introduce the basic knowledge of Pomology and Horticulture to students of the institution. Pomology is the branch of crop production that deals with cultivation of trees and shrubs that produce fruit to be consumed by humans as fresh or processed food, while Horticulture is the branch that deals with production and post-harvest utilization of herbaceous plants classified as vegetables or vegetable species. The introductory chapters referring to classification and importance of tree and vegetable crops, the description of plants and environmentally friendly methods of their cultivation. The chapters of cultivation practice inform students about installation, irrigation, fertilization, cultivation care, harvesting and post-harvesting techniques of fruit trees and vegetables. Finally, there is a brief presentation of the main tree crop systems with environmentally sound methods, per category and the cultivated vegetable plants and their nutritional value.</i></p> <p><i>Upon successful completion of the course student will be able to:</i></p> <ol style="list-style-type: none"> 1. <i>Understand the importance of classifying cultivated trees and vegetables based on specific characteristics.</i> 2. <i>Understand the nutritional value of arboreal-horticultural crops.</i> 3. <i>Know the individual sections and the term of varietal identity of tree-vegetable crops</i> 4. <i>Understand the impact of Pomology and Horticulture on the Environment</i> 5. <i>Know methods of good agricultural practices that respect the Environment and promote sustainability</i> <p><i>General Competences</i></p> <p><i>Taking into consideration the general competences that students/graduates must acquire (as those are described in the</i></p> |
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Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

- Search, analysis and synthesis of data and information, using the necessary technologies
- Adaptation to new situations
- Decision making
- Autonomous work
- Teamwork
- Work in an international environment
- Work in an interdisciplinary environment
- Generating new research ideas
- Project planning and management
- Respect for diversity and multiculturalism
- Respect for the natural environment
- Demonstrating social, professional and ethical responsibility and sensitivity to gender issues
- Exercise criticism and self-criticism
- Promotion of free, creative and inductive thinking

COURSE CONTENT

Week 1: Acquaintance with Fruit trees and Horticultural crops Methods of cultivation of Fruit trees

Week 2: Influence of soil and climatic conditions on plant growth

Week 3: Propagation of Fruit Trees

Week 4: Installation of the arboretum and cultivation of the soil

Week 5: Cultivation of Fruit trees

Week 6: Pruning and fruiting,

Week 7: Maturation – Harvesting – Fruit Handling

Week 8: Techniques of growing outdoor vegetables

Week 9: Greenhouse Horticulture Cultivation Techniques

Week 10: Modern techniques of horticultural cultivation: Hydroponics

Week 11: Irrigation, Fertilization and Nutrition of conventional and organic horticultural crops

Week 12: Harvesting vegetable crops

Week 13: Post-harvest handling of vegetables

TEACHING METHODS--ASSESSMENT

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| METHOD OF DELIVERY <i>Face to face, Distance learning, etc.</i> | <i>Face to face</i> |
| USE OF INFORMATION AND COMMUNICATION TECHNOLOGY <i>Use of ICT in teaching, Laboratory Education, Communication with students</i> | <p>Lectures: In a classroom.</p> <p>a. Digital media will be used for the teaching of the course (presentations using projector, PowerPoint, Excel, videos and photos), while communication with students will also be possible via the internet (questions, exercises).</p> <p>b. There will be a demonstration-learning of finding modern scientific literature from the internet (renowned international scientific journals).</p> <p>c. The learning of the electronic recording of the reproductive / productive characteristics of field/farm a will be done with specially designed by the instructor, spreadsheets "Excel", using a computer.</p> <p>d. There will be educational trips to greenhouses/farm units</p> |

| TEACHING ORGANIZATION | Activity | Semester Workload |
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| <p>The method and methods of teaching are described in detail. Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliography Study & Analysis, Tutorial, Internship (Placement), Clinical Practicing, Art Workshop, Interactive Teaching, Educational visits, Project Writing, Writing a project / assignments, Artistic creation, etc.</p> <p>The student's study hours for each learning activity are listed as well as the hours of unguided study so that the total workload at semester level corresponds to ECTS standards</p> | Lectures in Auditorium | 52 |
| | Εργαστηριακές Ασκήσεις | 39 |
| | Independent study | 35 |
| | Study visits | 24 |
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| | Total Course (25 hours of workload per credit) | 150 |
| <p>STUDENT EVALUATION Description of the evaluation process</p> <p>Assessment Language, Assessment Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay/Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Examination of a Patient, Artistic Interpretation, Other/Others</p> <p>Explicitly defined evaluation criteria and whether and where they are accessible to students are mentioned.</p> | <p>The examination of the course includes:</p> <ul style="list-style-type: none"> • Final exam (written) • Laboratory exercise examination <p>The language of assessment is Greek.</p> <p>The grade in theory and the laboratory / tutorial results 80% from the written examination and 20% from the examination of the laboratory exercise</p> | |
| <p>RECOMMENDED-BIBLIOGRAPHY</p> <p>Suggested Bibliography:</p> <p>Pontikis K., 1997. General arboriculture, Stamoulis Publication, Athens Vasilakakis M. D., 2016. General and Special Arboriculture, Gartaganis Publication, Thessaloniki Savvas D.,2016. General Horticulture, Pedio Publications, Athens Papahatzis A. and Kalorizou H., 2016. General and Special Horticulture, Grammiko Publication, Larisa</p> | | |