

COURSE OUTLINE

1. GENERAL INFORMATION

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| SCHOOL | APPLIED BIOLOGY AND BIOTECHNOLOGY | | |
| DEPARTMENT | BIOTECHNOLOGY | | |
| STUDY LEVEL | BACHELOR OF SCIENCE | | |
| COURSE CODE | 3655 | Semester: | 2 nd |
| COURSE TITLE | AGRICULTURE | | |
| INDEPENDENT TEACHING ACTIVITIES <i>in case credits are awarded for separate components/parts of the course, e.g. in lectures, laboratory exercises, etc. If credits are awarded for the entire course, give the weekly teaching hours, and the total credits</i> | | WEEKLY TEACHING HOURS | ECTS |
| Lectures | | 3 | 1,56 |
| Laboratory Exercises | | 2 | 1,04 |
| Laboratory practice – Practice in the vineyard | | | 0,40 |
| Personal study | | | 2,00 |
| TOTAL | | | 5,00 |
| COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i> | General Knowledge | | |
| PREREQUISITE COURSES: | | | |
| LANGUAGE OF INSTRUCTION and EXAMS: | Greek | | |
| THE COURSE IS OFFERED TO ERASMUS STUDENTS | No | | |
| COURSE WEBSITE (URL) | | | |

2. LEARNING OUTCOMES

Learning Outcomes

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

- Description of the level of learning outcomes for each level of study, in accordance with the European Higher Education Qualifications' Framework
- Descriptive indicators for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning

And Appendix B

- Guidelines for writing Learning Outcomes

The subject of the “Agriculture” course is to acquaint students on a theoretical and practical level with the current situation and prospects of annual and perennial field crops. Upon successfully completing the course, the student will be in position to understand both theoretical as well as the practical aspects of agriculture and cultivation of field crops. Emphasis is given on the principles of integrated production management and the implementation of good agricultural practices.

General Competences

Taking into consideration the general competences that students/graduates must acquire (as those are described in the Diploma Supplement and are mentioned below), at which of the following does the course attendance aim?

*Search for, analysis and synthesis of data and information by the use of appropriate technologies,
Adapting to new situations
Decision-making
Individual/Independent work
Group/Team work
Working in an international environment
Working in an interdisciplinary environment
Introduction of innovative research*

*Project planning and management
Respect for diversity and multiculturalism
Environmental awareness
Social, professional and ethical responsibility and sensitivity to gender issues
Critical thinking
Development of free, creative and inductive thinking
(Other.....citizenship, spiritual freedom, social awareness, altruism etc.)*

3. COURSE CONTENT

THEORY

- Crop communities, aerial environment, and soil properties. Concepts, effects and interventions Agro-ecological approaches on cultivation zones of field crops and varieties.
- Field crops. Cereals (wheat, barley, oat, rye, triticale). Corn, rice.
- Legumes, oil crops, sugar crops and processed tomato. Aromatic and medicinal plants.

LABORATORY

- Morphological characteristics and growth stages of the main field crops
- Issues related to cultivation techniques

4. TEACHING and LEARNING METHODS - Evaluation

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| USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES <i>Use of ICT in teaching, laboratory education, communication with students</i> | In-class lecturing | |
| TEACHING ORGANISATION <i>The manner and methods of teaching are described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc. The student's study hours for each learning activity are given as well as the hours of non-directed study according to the principles of the ECTS</i> | Use of slide presentation and blackboard. Communication with students. Learning process support by access to e-class asynchronous distance learning platform. | |
| USE OF INFORMATICS and COMMUNICATION TECHNOLOGIES <i>Use of ICT in teaching, laboratory education, communication with students</i> | Activity / Method | Semester Workload |
| | Lectures | 39 h |

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| | Laboratory practice | 26 h |
| | Personal study | 60 h |
| | Total of Course (25 hours of workload per ECTS) | 125 h |
| <p>STUDENT EVALUATION</p> <p><i>Detailed description of the evaluation procedures</i></p> <p><i>Language of evaluation, assessment methods, formative or summative (conclusive), multiple choice tests, short- answer questions, open-ended questions, problem solving, written work, essay/report, oral exam, presentation, laboratory work, other etc</i></p> <p><i>Specifically defined evaluation criteria are stated, as well as if and where they are accessible by the students..</i></p> | <p>I. Final written exam in the theory of the course including a combination of 10 short-answer questions, open-ended questions and multiple-choice questions.</p> <p>II. The written examination in the laboratory part of the course includes 5 short answers, open-ended, problem solving and documentation questions (the ability to apply the principles and mechanisms and the way of approaching and documenting the answer is evaluated).</p> | |

5. SUGGESTED BIBLIOGRAPHY

R. S. Loomis & D. J. Connor 1992. Crop Ecology. Productivity and management in agricultural systems. Cambridge University Press.

Bilalis, D., P. Papastylianou, I. Travlos. 2021. Agronomy-Field Crops. Pedio, Athens.