| SCHOOLAGRICULTURAL SCIENCESACADEMIC UNITCROP SCIENCELEVEL OF STUDIESUNDERGRADATECOURSE CODECRS_603SEMESTER OF STUDIESSpecial Topics On Field CropsSIXTHCOURSE TITLESpecial Topics On Field CropsFACULTY MEMBERVEEKLYINDEPENDENT TEACHING ACTIVITIESWEEKLYif credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. if the credits are awarded for the total creditsVEEKLY TEACHING HOURSig the weekly teaching hours and the total credits2COURSE TYPE general background, specialSpecialized general knowledge, skills development foreilized general knowledge, skills developmentPREREQUISITE COURSES: IS THE COURSE OF INSTRUCTION and EXAMINATIONS:Typically, there are no prerequisite coursesIS THE COURSE OFFERED TO ERASMUS STUDENTSYes (English)COURSE WEBPAGE (URL)Yes (English) | I. GENERAL | | | | |
|--|---|-------------------------------|---------------------|---------|--|
| LEVEL OF STUDIESUNDERGRADUATECOURSE CODECRS_603SEMESTER OF STUDIESSIXTHCOURSE TITLESpecial Topics On Field CropsFACULTY MEMBERSpecial Topics On Field CropsINDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. if the credits are awarded for the whole of the course, give the weekly teaching hours and the total creditsWEEKLY TEACHING HOURSCREDITSCOURSE TYPE general background, special knowledge, skills developmentLectures22COURSE TYPE general background, special knowledge, skills developmentSpecialized general knowledge55COURSE OF INSTRUCTION and EXAMINATIONS:GreekTypically, there are no prerequisite courses1IS THE COURSE OFFERED TO ERASMUS STUDENTSYes (English)Yes (English) | SCHOOL | AGRICULTU | RAL SCIENCES | | |
| COURSE CODECRS_603SEMESTER OF STUDIESSIXTHCOURSE TITLESpecial Topics On Field CropsFACULTY MEMBERINDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total creditsWEEKLY TEACHING HOURSCREDITSLectures in the weekly teaching hours and the total credits2CREDITSCOURSE TYPE general background, special background, special sed general knowledge, skills developmentSpecialized general knowledge5PREREQUISITE COURSES: IS THE COURSE OFFERED TO BERASMUS STUDENTSTypically, there are no prerequisite coursesCursesIS THE COURSE OFFERED TO BERASMUS STUDENTSYes (English)Yes (English) | ACADEMIC UNIT | CROP SCIEN | CROP SCIENCE | | |
| COURSE TITLE Special Topics On Field Crops FACULTY MEMBER Special Topics On Field Crops INDEPENDENT TEACHING ACTIVITIES WEEKLY if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits WEEKLY TEACHING HOURS CREDITS Lectures 2 | LEVEL OF STUDIES | UNDERGRADUATE | | | |
| FACULTY MEMBER INDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits WEEKLY TEACHING HOURS CREDITS 2 | COURSE CODE | CRS_603 | SEMESTER OF STUDIES | SIXTH | |
| INDEPENDENT TEACHING ACTIVITIES WEEKLY if credits are awarded for separate components of WEEKLY the course, e.g. lectures, laboratory exercises, etc. If TEACHING the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits Lectures 2 Lectures 2 Lab exercises 2 Tutorials 1 Total 5 Specialized general knowledge 5 general background, special Specialized general knowledge PREREQUISITE COURSES: Typically, there are no prerequisite courses LANGUAGE OF INSTRUCTION and EXAMINATIONS: Greek IS THE COURSE OFFERED TO ERASMUS STUDENTS Yes (English) | COURSE TITLE | Special Topics On Field Crops | | | |
| if credits are awarded for separate components of the course, e.g. lectures, laboratory exercises, etc. If the credits are awarded for the whole of the course, give the weekly teaching hours and the total credits Lectures 2 Lectures 2 Lectures 2 Lectures 2 Letures 3 COURSE TYPE general background, special background, specialised general knowledge, skills development RREEQUISITE COURSES Secialized general knowledge Typically, there are no prerequisite courses Typically, there are no prerequisite courses Secialized general background, specialised general Knowledge, skills development Secialized general knowledge Secialized general knowledge | FACULTY MEMBER | | | | |
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| Tutorials 1 Total 5 COURSE TYPE Specialized general knowledge general background, special specialized general knowledge background, specialised general specialized general knowledge knowledge, skills development Typically, there are no prerequisite courses PREREQUISITE COURSES: Typically, there are no prerequisite courses LANGUAGE OF INSTRUCTION and EXAMINATIONS: Greek IS THE COURSE OFFERED TO ERASMUS STUDENTS Yes (English) | Lectures | | 2 | | |
| Total 5 5 COURSE TYPE Specialized general knowledge Specialized general knowledge general background, specialised general knowledge, skills development Specialized general knowledge, skills development Specialized general knowledge PREREQUISITE COURSES: Typically, there are no prerequisite courses Specialized general knowledge LANGUAGE OF INSTRUCTION and EXAMINATIONS: Greek Specialized general knowledge IS THE COURSE OFFERED TO ERASMUS STUDENTS Yes (English) Yes (English) | Lab exercises | | 2 | | |
| COURSE TYPE Specialized general knowledge general background, special Specialized general knowledge background, specialised general Knowledge, skills development PREREQUISITE COURSES: Typically, there are no prerequisite courses LANGUAGE OF INSTRUCTION and EXAMINATIONS: Greek IS THE COURSE OFFERED TO ERASMUS STUDENTS Yes (English) | Tutorials | | 1 | | |
| general background, specialised general background, specialised general knowledge, skills development Typically, there are no prerequisite courses PREREQUISITE COURSES: Typically, there are no prerequisite courses LANGUAGE OF INSTRUCTION and EXAMINATIONS: Greek IS THE COURSE OFFERED TO ERASMUS STUDENTS Yes (English) | Total | | . | 5 | |
| and EXAMINATIONS: IS THE COURSE OFFERED TO ERASMUS STUDENTS Yes (English) | general background, special background, specialised general knowledge, skills development | | | | |
| ERASMUS STUDENTS | | Greek | | | |
| COURSE WEBPAGE (URL) | ERASMUS STUDENTS | Yes (English) | | | |
| | COURSE WEBPAGE (URL) | | | | |

2. LEARNING OUTCOMES

Learning outcomes

• Description of the level of learning outcomes for each qualifications cycle, according to the Qualifications Framework of the European Higher Education Area

• Descriptors for Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Appendix B

• Guidelines for writing Learning Outcomes

The specialized topics in field crops course aims to train in depth students on cereal, industrial and legume crop cultivation. Students will be informed for the current status of most valuable field crops and learn to use frontline technology to achieve higher yields. Emphasis is given on proper cultivation methods, so that the farmer and/or the ag firm complies with the latest environmental regulatory frameworks.

General Competences

| Taking into consideration the general competences that the degree-holder must acquire (as these appear in | | | | |
|---|---|--|--|--|
| the Diploma Supplement and appear below), at which of the following does the course aim? | | | | |
| Search for, analysis and synthesis of data and | Project planning and management | | | |
| information, with the use of the necessary | Respect for difference and multiculturalism | | | |
| technology | Respect for the natural environment | | | |
| Adapting to new situations | Showing social, professional and ethical responsibility and | | | |
| Decision-making | sensitivity to gender issues | | | |
| Working independently | Criticism and self-criticism | | | |
| Team work | Production of free, creative and inductive thinking | | | |
| Working in an international environment | | | | |

Working in an interdisciplinary environment Production of new research ideas Others...

• Search, analysis, data synthesis and information management, using necessary technological systems

- Autonomous work
- Group work
- Practicing on interdisciplinary network of ideas
- Design and project management
- Interactions in global context.
- Decision making
- Project planning and management
- Production of new research ideas
- Promotion of free, creative and inductive thinking

3. SYLLABUS

Lectures

- 1. Corn, Sorghum, Millet: General characteristics, botany, ecological and agronomical requirements, cultivation practices.
- 2. Rice: General characteristics, botany, ecological and agronomical requirements, cultivation practices.
- 3. Bean: General characteristics, botany, ecological and agronomical requirements, cultivation practices.
- 4. Lentil: General characteristics, botany, ecological and agronomical requirements, cultivation practices.
- 5. Pea, Broad bean, Chickpea: General characteristics, botany, ecological and agronomical requirements, cultivation practices.
- 6. Grass pea Lupin, Soya: General characteristics, botany, ecological and agronomical requirements, cultivation practices.
- 7. Alfalfa, Clover, Vicia: General characteristics, botany, ecological and agronomical requirements, cultivation practices.
- 8. Cotton: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 9. Tobacco: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 10. Sugarbeet: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 11. Sunflower, Hop: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 12. Cannabis, Sesame, Castor bean: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 13. Industrial tomato: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.

Laboratory exercises

- 1. Biological cycle markers for field crops.
- 2. Plant growth markers.
- 3. Irrigation and fertilization regimes for field crops.
- 4. Seed identification of field crops.
- 5. Development cereal demonstration farm.
- 6. Development industrial field crop demonstration farm.

4. TEACHING AND LEARNING METHODS - EVALUATION

| DELIVERY | Lectures, self-tests of students and problem-solving seminars., face |
|---------------------------------------|--|
| Face-to-face, Distance learning, etc. | to face. |

| USE OF INFORMATION AND COMMUNICATION TECHNOLOGIES | Use of Information and Communication Technologies (ICTs) (e.g. Microsoft PowerPoint) in teaching. The contents of the course of | | | |
|---|--|--|--|--|
| Use of ICT in teaching, laboratory education, communication with students | each chapter are uploaded on the internet, that the students can freely download using a password which is provided to them at the beginning of the course. | | | |
| TEACHING METHODS | Activity | Semester workload | | |
| The manner and methods of teaching are described in detail. | Lectures 2 conduct hours per week x 13 weeks) | 26 | | |
| Lectures, seminars, laboratory practice, fieldwork, study and analysis | Lab Practice (2 conduct hour per week x 6 weeks) | 12 | | |
| of bibliography, tutorials, placements, clinical practice, art | Tutorials (1 conduct hour per week x 13 weeks) | 13 | | |
| workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc. | Hours for private study of the student, preparation and attendance mid-term or/and final examinations. | 74 | | |
| The student's study hours for each learning activity are given as well as the hours of nondirected study according to the principles of the ECTS | Total number of hours for the Course (25 hours of work-load per ECTS credit) | 125 hours (total student work-load) | | |
| STUDENT PERFORMANCE EVALUATION Description of the evaluation | Student performance evaluation will be explained to the students at the beginning of the course/beginning of the semester. Mandatory final written examination for lectures / theoretical part of the course, comprises 60% of the final mark of the student. Mandatory final written examination for the transferred laboratory skills of the course, comprises 40% of the final mark of the student. | | | |
| procedure Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short- | | | | |
| answer questions, open-ended questions, problem solving, written | Minimum pass mark: 5 (full scale: 0-10) | | | |
| work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other | 1. The above mentioned process will be taking place in Greek and for foreign students (eg ERASMUS students) in English. Examination will be based on full length questions and / or multiple choice questions. | | | |
| Specifically-defined evaluation criteria are given, and if and where they are accessible to students. | 2. Oral examination could take place if permitted by the legal/regulatory framework under which the student is affiliated (or enrolled) to the department. If permitted, oral examination will take place simultaneously with written exams. | | | |

5. ATTACHED BIBLIOGRAPHY

Proposed literature (indicative and not restrictive):

- 1. Μπιλάλης, Δ., Π.Θ. Παπαστυλιανού και Η.Σ. Τραυλός (2019). Γεωργία-Φυτά μεγάλης καλλιέργειας. Εκδόσεις Πεδίο.
- 2. Παπαστυλιανού Π.Θ., Μπιλάλης, Δ., Η.Σ. Τραυλός και Α. Παπαθεοχάρη. Ειδική Γεωργία ΙΙ- Εαρινά σιτηράβιομηχανικά ελαιούχα φυτά και εαρινά ζιζάνια. Εκδόσεις ΚΑΛΛΙΠΟΣ
- Μπιλάλης, Δ., Π.Θ. Παπαστυλιανού και Η.Σ. Τραυλός (2019). Γεωργία-Φυτά μεγάλης καλλιέργειας. Εκδόσεις Πεδίο.
- 4. Δ.Παπακώστα -Τασοπούλου 2013. Βιομηχανικά φυτά. Εκδόσεις Σύγχρονη Παιδεία Θεσ/νίκη
- 5. Τραυλός Σ. Ηλίας, Κανάτας Ι. Παναγιώτης Ζιζανιολογια Και Γεωργία , Εκδόσεις Πεδίο

Proposed research journals for further reading (indicative and not restrictive):1.Advances in Agronomy2.Journal of Cereal Science3.Agronomy Journal