1. GENERAL

I. GLINLINAL			
SCHOOL	AGRICULTURAL SCIENCES		
ACADEMIC UNIT	DEPARTMENT OF AGRICULTURE		
LEVEL OF STUDIES	UNDERGRADUATE		
COURSE CODE	AGRI_605	SEMESTER OF STUDIES	SIXTH
COURSE TITLE	SPECIALIZED TOPICS ON FIELD CROPS		
FACULTY MEMBER			
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	
Lab exercises		2	
Total		4	5
general background, special background, special background, specialised general knowledge, skills development PREREQUISITE COURSES:	Specialized general knowledge Typically, there are no prerequisite courses		
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (English)		
COURSE WEBPAGE (URL)			<u> </u>

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 Others...

Production of new research ideas

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

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- 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	Use of Information and Communication Technologies (ICTs) (e.g.	
COMMUNICATION TECHNOLOGIES	Microsoft PowerPoint) in teaching. The contents of the course of	

Use of ICT in teaching, laboratory education, communication with students

TEACHING METHODS

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)
The manner and methods of teaching	J
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 nondirected study according to the principles of the ECTS

beginning of the course.		
Activity	Semester workload	
Lectures (2 conduct hours per week x 13 weeks)	26	
Lab Practice (2 conduct hour per week x 6 weeks)	12	
Lab reports	5	
Hours for private study of the student, preparation and attendance mid-term or/and final examinations.	82	
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 procedure

Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, shortanswer questions, open-ended questions, problem solving, written work, essay/report, oral examination, public presentation, laboratory work, clinical examination of patient, art interpretation, other

Specifically-defined evaluation criteria are given, and if and where they are accessible to

Student performance evaluation will be explained to the students at the beginning of the course/beginning of the semester.

- 1. Mandatory final written examination for lectures / theoretical part of the course, comprises 60% of the final mark of the student.
- 2. Mandatory final written examination for the transferred laboratory skills of the course, comprises 40% of the final mark of the student.

Minimum pass mark: 5 (full scale: 0-10)

- 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.
- 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

students.

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
- 3. 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 Agronomy
- 2. Journal of Cereal Science
- 3. Agronomy Journal