# **COURSE OUTLINE**

1. GENERAL				
SCHOOL	AGRICULTUR	AGRICULTURAL SCIENCES		
ACADEMIC UNIT	DEPARTMENT OF CROP SCIENCE			
LEVEL OF STUDIES	UNDERGRADUATE			
COURSE CODE	AGRI 301	SEMESTER OF STUDIES	3 <sup>rd</sup>	
COURSE TITLE	FIELD CROPS			
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	
Lectures		2		
Lab exercises		2		
Total		4	5	
COURSE TYPE	Specialized general knowledge			
general background, special				
background, specialised general				
knowledge, skills development				
PREREQUISITE COURSES:	Typically, there are no prerequisite courses			
LANGUAGE OF INSTRUCTION	Greek			
and EXAMINATIONS:				
IS THE COURSE OFFERED TO	Yes (English)			
ERASMUS STUDENTS				
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

At the end of the course students will have general and specific knowledge about cultivation practices of economically important spring cereals, industrial and herbaceous crops. Extensive analysis is provided on current cultivation methods, new technologies applied to large scale of cultivated plants and integrated management of production.

General Competences				
Taking competences				
aking into consideration the general completences that the degree-holder must acquire (as these appear in the Diploma Supplement and propose hold) of which of the following does the source of an				
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 technology	Respect for difference and multiculturalism			
Adapting to new situations	Respect for the natural environment			
Decision-making	Showing social, professional and ethical responsibility and sensitivity to			
Working independently	gender issues			
Team work	Criticism and self-criticism			

Working in an international environment Working in an interdisciplinary environment Production of new research ideas Production of free, creative and inductive thinking

- Autonomous (Independent) work
- Team work
- Project planning and management
- Respect for the environment
- Adaptation to environmental changes under optimum, suboptimum and extreme conditions.

Others...

- Production of new research ideas
- Promotion of free, creative and inductive thinking

## 3. SYLLABUS

Lectures

- 1. Maize, Sorghum, Millet (Botanical description, ecological requirements, cultivation techniqueç)
- 2. Rice: (Botanical description, ecological requirements, cultivation techniques)
- 3. Beans: (Botanical description, ecological requirements, cultivation techniques)
- 4. Lentil B(otanical description, ecological requirements, cultivation techniques)
- 5. Pea Chickpea (Botanical description, ecological requirements, cultivation techniques)
- 6. Grass pea, soya bean ((Botanical description, ecological requirements, cultivation techniques)
- 7. Alfalfa, Clover, Vetch (Botanical description, ecological requirements, cultivation techniques)
- 8. Cotton (morphological characteristics, varieties, cultivation techniques, harvest, yield)
- 9. Tabacco plant crop (morphological characteristics, varieties, cultivation techniques, harvest, yield)
- 10. Sugar beet crop (morphological characteristics, varieties, cultivation techniques, harvest, yield)
- 11. Sunfluer and common hop crops (morphological characteristics, varieties, cultivation techniques, harvest, yield)
- 12. Hemp, Sesame and castor bean crops (morphological characteristics, varieties, cultivation techniques, harvest, yield)
- 13. Tomato (morphological characteristics, varieties, cultivation techniques, harvest, yield)

Laboratory exercises

- 1. Biological index of large-scale crops
- 2. Plant growth index
- 3. Irrigation and fertilization programs (spring cereals, industrial and herbaceous crops)
- 4. Seed identification
- 5. Spring cereals planting systems
- 6. Industrial crops planting systems

## 4. TEACHING AND LEARNING METHODS - EVALUATION

DELIVERY	Face to face lectures in the classroom and laboratory.		
Face-to-face, Distance learning, etc.			
USE OF INFORMATION AND	Use of Information and Communication Technologies (ICTs) in		
COMMUNICATION TECHNOLOGIES	teaching.		
Use of ICT in teaching, laboratory	Exemplary solutions will be provided.		
education, communication with			
students			
TEACHING METHODS	Activity	Semester workload	
The manner and methods of	Lectures (2 conduct hours per week x	26	
teaching are described in detail.	13 weeks)	26	
Lectures, seminars, laboratory	Lab Practice (2 conduct hour per week x 6 weeks)	12	

practice, fieldwork, study and	Individual and group lab reports	8	
analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing article creativity atc	Hours for private study of the student, preparation and attendance mid-term or/and final examinations.	79	
The student's study hours for each learning activity are given as well as the hours of nondirected study	Total number of hours for the Course (25 hours of work-load per ECTS credit)	125 hours (total student work-load)	
according to the principles of the ECTS			
STUDENT PERFORMANCE	Optionally, two mid-term examinations, the	first in the middle and the	
EVALUATION	second at the end of the semester. The	evaluation procedure is	
Description of the evaluation procedure Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions,	conducted with short answer questions and/or open-ended questions and/or multiple choice questionnaires and/or oral examination, as well as questions based on laboratory exercises. The final examination grade is the mean mark. It is mandatory to obtain pass grade (25) in each examination. Written examination after the end of the semester. The evaluation procedure is conducted with short answer questions and/or open- ended questions and/or multiple choice questionnaires and/or oral examination, as well as questions based on laboratory exercises		
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 students.	examinations). Minimum passing grade: 5 (fu 1. The above mentioned process will be takin foreign students (eg ERASMUS students) in E be based on full length questions and / or mu	Inticipated the mid-term ull scale: 0-10) ng place in Greek and for English. Examination will ultiple choice questions.	

## 5. ATTACHED BIBLIOGRAPHY

- Proposed literature (indicative and not restrictive):

- Μπιλάλης, Δ., Π.Θ. Παπαστυλιανού και Η.Σ. Τραυλός (2019). Γεωργία-Φυτά μεγάλης καλλιέργειας. Εκδόσεις Πεδίο.
- 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 Agronomy
- 2. Journal of Cereal Science
- 3. Agronomy Journal