## **SPECIALIZED TOPICS ON FIELD CROPS II**

## 1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES				
ACADEMIC UNIT	CROP SCIENCE				
LEVEL OF STUDIES	UNDERGRADUATE				
COURSE CODE	CRS_704 SEMESTER 7 <sup>th</sup>				
COURSE TITLE	Specialized Topics On Field Crops II				
<b>INDEPENDENT TEACHING ACTIVITIES</b> if credits are awarded for separate components of the course, e.g.		WEEKLY			
lectures, laboratory exercises, etc. If the credits are awarded for the		TEACHING HOURS	CREDITS		
whole of the course, give the weekly tec credits	whole of the course, give the weekly teaching hours and the total credits				
	lectures	2			
	Tutorials	1			
	laboratory exercises	2			
	TOTAL	5	5		
	Add rows if necessary. The organisation of teaching and the teaching				
methods used are described in detail at (d COURSE TYPE	<i>).</i> Specialised general knowl	adge specialised g	anaral knowledge, skills		
general background,	development	euge, specialised go	eneral knowledge, skills		
special background, specialised general	development				
knowledge, skills development					
PREREQUISITE COURSES: LANGUAGE OF INSTRUCTION	Field Crops (CRS-405)				
and EXAMINATIONS:	Greek. Teaching may be performed in English in case foreign students				
IS THE COURSE OFFERED TO	attend the course. Yes				
ERASMUS STUDENTS	103				
COURSE WEBSITE (URL)					
2. LEARNING OUTCOMES					
Learning outcomes					
The course learning outcomes, specific knowled		appropriate level, which	the students will acquire with		
the successful completion of the course are described. Consult Appendix A					
Description of the level of learning of t	utcomes for each qualifications cy	vcle, according to the Q	ualifications Framework of the		
<ul> <li>European Higher Education Area</li> <li>Descriptors for Levels 6, 7 &amp; 8 of the</li> </ul>	Furonean Qualifications Framew	ork for Lifelona Learni	ng and Annendix B		
Guidelines for writing Learning Out		ork for Elfelong Learnin	ig und Appendix D		
The specialized topics in field crops co	urse aims to train in depth s	tudents on cereal, i	ndustrial and legume crop		
cultivation. Students will be informed					
frontline technology to achieve highe					
farmer and/or the ag firm complies wi	th the latest environmental	regulatory framew	vorks.		
General Competences Taking into consideration the general compete	nces that the dearge-holder must	acquire (as these anne	ir in the Dinloma Sunnlement		
and appear below), at which of the following d		acquire (us these appet	α τη της στριστιά σαρριστιστά		
Sourch for analysis and surthanis of data and	Droisst alanair	Imanagement			
Search for, analysis and synthesis of data and Project planning and information, with the use of the necessary technology Respect for difference		e and multiculturalism			
Adapting to new situations	Respect for the natu		11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Decision-making Working independently	Showing social, prof gender issues	essional and ethical res	ponsibility and sensitivity to		
Team work	Criticism and self-cri				
Working in an international environment Working in an interdisciplinary environment	Production of free, c	reative and inductive th	inking		
Production of new research ideas	Others				
• Search for, analysis and synthesis of data and information, with the use of the necessary technology					
Working independently					
Teamwork					

Teamwork

- Production of free, creative and inductive thinking
- Respect for the natural environment
- Project planning and management
- Working in an international environment
- Decision-making
- 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. Cotton: General characteristics, trends, varieties, adaptation.
- 4. Cotton: Agronomical requirements, cultivation practices, harvest and quality.
- 5. Linum (flax). General characteristics, botany, ecological and agronomical requirements, cultivation practices.
- 6. Tobacco: General characteristics, trends, varieties, adaptation.
- 7. Tobacco: Agronomical requirements, cultivation practices, harvest and quality.
- 8. Sugarbeet: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 9. Sunflower, Hop: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 10. Cannabis, Sesame, Castor bean: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 11. Industrial tomato: General characteristics, trends, varieties, adaptation, agronomical requirements, cultivation practices, harvest and quality.
- 12. Spring summer Weeds: Identification.
- 13. Spring summer Weeds: Management

Laboratory Exercises

Seed identification of spring field crops

Seed identification of industrial spring field crops

Development cereal demonstration farm.

Development industrial field crop demonstration farm.

Weeds identification

Biological cycle markers and cultivation practices of spring weeds

## Biological cycle markers and cultivation practices of spring weeds

4. TEACHING and LEARNING M	ETHODS - EVALUATION			
DELIVERY	Lectures, self-tests of students and problem-solving seminars., face			
Face-to-face, Distance learning, etc.	to face.			
USE OF INFORMATION AND	Power point presentations, i-books, videos,			
COMMUNICATIONS TECHNOLOGY	Educational process is supported by the online platform e-class.			
Use of ICT in teaching, laboratory education,				
communication with students				
TEACHING METHODS		Semester workload		
The manner and methods of teaching are described in detail.		Jemester Horniouu		
Lectures, seminars, laboratory practice,	Lectures (2 contact hours	26		
fieldwork, study and analysis of bibliography,	per week x 13 weeks)			
tutorials, placements, clinical practice, art	Laboratory practice (2	14		
workshop, interactive teaching, educational visits, project, essay writing, artistic creativity,	contact hours per week x 7			
etc.	weeks)			
	Tutorials	13		
The student's study hours for each learning activity are given as well as the hours of non-	Final examinations	3		
directed study according to the principles of	Hours for private study of	69		
the ECTS	the student and			
	preparation for mid-term			
	or/and final examination –			

STUDENT PERFORMANCE EVALUATION Description of the evaluation procedure Language of evaluation, methods of evaluation, summative or conclusive, multiple choice questionnaires, short-answer 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 students.	Participation in the examinations         Total number of hours for the Course (25 hours of work-load per ECTS credit)         Optionally, two mid-term examinations, the first in the middle and the second at 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. The final examination after the end of the semester. The evaluation procedure is conducted with short answer questions based on laboratory exercises. The final 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 open-ended questions and/or multiple choice questions and/or open-ended questions and/or multiple choice questions and/or open-ended questions and/or multiple choice questions and/or oral examination, as well as questions based on laboratory exercises (unless the student has successfully participated the mid-term examinations). Minimum passing grade: 5.         The above mentioned process will be taking place in Greek and for foreign students (eg ERASMUS students) in English. Examination will				
	foreign students (eg ERASMUS be based on full length questic questions.	students) in English. Examination	n will		
	legal/regulatory framework un enrolled) to the department. In	der which the student is affiliate f permitted, oral examination will	ed (or		
5. ATTACHED BIBLIOGRAPHY	place simultaneously with writ	ten exams.			

Proposed literature (indicative and not restrictive):

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

*Proposed research journals for further reading* (indicative and not restrictive): Advances in Agronomy