

FIELD CROPS II

COURSE OUTLINE

1. GENERAL			
SCHOOL	School of Agricultural Sciences		
ACADEMIC UNIT	Department of Agriculture		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	0810.7.017.0	SEMESTER	2nd
COURSE TITLE	Field Crops II		

INDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course	WEEKLY TEACHING HOURS	CREDITS
	0	3
	2	2
Total	2	5

COURSE TYPE general background, special background, specialised general knowledge, skills development	Specialisation / Elective Course
PREREQUISITE COURSES	None
LANGUAGE OF INSTRUCTION and EXAMINATIONS	English
OFFERED TO ERASMUS STUDENTS	Yes (in English)
COURSE WEBSITE (URL)	https://iro.hmu.gr/agriculture-english-courses/

2. LEARNING OUTCOMES
Learning outcomes
LEARNING OUTCOMES Learning Outcomes Upon successful completion of the course, students will be able to: • identify the major industrial and energy crops and understand their morphology and physiology; • understand and propose solutions to problems related to crop management practices and evaluate the effects of biotic and abiotic factors on crop productivity; • recognize the main products and by-products of industrial and energy crops and understand their agricultural and economic importance.
General Competences
General Competences • Search for, analyze and synthesize data and information using appropriate technologies. • Decision-making. • Independent work. • Teamwork.

3. SYLLABUS

COURSE CONTENT

Theory

For each crop, the following topics are covered:

- geographical distribution and economic importance;
- botanical characteristics and developmental stages, together with the factors affecting growth;
- classification, cultivated varieties and hybrids;
- cultivation practices (crop rotation, soil preparation, fertilization, sowing, irrigation and harvesting);
- pests and diseases;
- quality characteristics of products and their utilization.

Special emphasis is given to **seed production** of cotton, tobacco and sugar beet.

Laboratory

The laboratory focuses on the principal industrial and energy crops:

- Cotton
- Flax
- Hemp
- Tobacco
- Sugar beet
- Sunflower
- Rapeseed
- Sesame
- Safflower
- Castor bean

For each crop, students study:

- classification and varieties;
- cultivation practices;
- pests and diseases;
- products and by-products.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY

Face-to-face, Distance learning, etc.

Teaching Method: Face-to-face teaching through lectures in the lecture hall and practical sessions in the laboratory.

USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY

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

Use of Information and Communication Technologies

- PowerPoint presentations and audiovisual material.
- Learning support through the e-Class platform.
- Communication with students via e-Class and e-mail.

TEACHING METHODS

The manner and methods of teaching are described in detail.

Activity	Semester workload
Lectures	26
Practical/Laboratory Exercises	26
Field Study	13
Coursework Preparation	20
Independent Study	40
Course total	125

STUDENT PERFORMANCE EVALUATION

Description of the evaluation procedure

Assessment includes:

Theory

- Final written examination.

Laboratory

- Group laboratory exercises (groups of 2–4 students), assessed through laboratory reports (**approximately 33%** of the laboratory grade).
- Individual final laboratory examination (**approximately 67%** of the laboratory grade).

Four laboratory exercises are directly related to the field exercise component.

5. ATTACHED BIBLIOGRAPHY

RECOMMENDED LITERATURE

- Galanopoulou, S. (2002). *Industrial Crops*. Stamoulis Publications.
- Papakosta, D. (2013). *Industrial Crops* (2nd Edition). Synchroni Paideia Publications.
- Bilalis, D., Papastylianos, P.-T., & Travlos, I. S. (2018). *Field Crops*. Pedio Publications.
- Toli, I. D. (1992). *Cotton Cultivation and Plant Protection in Greece*. Triantafyllis Publications.

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