COURSE OUTLINE

1. GENERAL

SCHOOL	Environment and Agricultural Engineering				
ACADEMIC UNIT	Natural Resources Management and Agricultural				
	Engineering				
LEVEL OF STUDIES	Undergraduate				
COURSE CODE	2605 SEMESTER 9 th				
COURSE TITLE	Management and Modernization of Land Reclamation Projects				
if credits are awarded for separate concepts lectures, laboratory exercises, etc. If the whole of the course, give the week total credi	omponents of the course, e.g. If the credits are awarded for eaching hours and the HOURS WEEKLY TEACHING CREDITS HOURS				
	Theory			2	
Laboratory			2	2	
TOTAL:			4	4	
COURSE TYPE	special background, skills development				
general background,					
special background, specialised					
general knowledge, skills					
development					
PREREQUISITE COURSES:					
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek				
IS THE COURSE OFFERED TO	YES (In English)				
ERASMUS STUDENTS					
COURSE WEBSITE (URL)					

2. LEARNING OUTCOMES

Learning outcomes

The course learning outcomes, specific knowledge, skills and competences of an 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 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

This course is aimed at training graduate agronomists in complex land improvement projects management topics. The students, after successful examination have acquired the following skills:

- To be able to chart an existing land reclamation project (irrigation drainage) and to assess its condition.
- Be able to determine the necessary consolidation and modernization actions
- To be able to determine the cost of proposed plans and to complete the necessary studies.

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 information, with the use of the necessary technology Adaptina to new situations

Adapting to new situations Decision-making Working independently Project planning and management Respect for difference and multiculturalism Respect for the natural environment

Showing social, professional and ethical responsibility and sensitivity to gender issues

Team work
Working in an international environment
Working in an interdisciplinary environment
Production of new research ideas

Criticism and self-criticism
Production of free, creative and inductive thinking
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Others...

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- Search, analysis and synthesis of data and information with the use of the required technologies
- Decision making
- Project planning and management
- Respect for the natural environment

3. SYLLABUS

Land reclamation. Irrigation networks. Pressure Networks. Gravity Networks. Drainage networks. Flood protection works. Environmental protection and management projects.

Land Reclamation Project Management. Operation. Maintenance. Management - Organization. Legislation. Management problems. Financial data. Socio-economic impact. Environmental impacts of Land Reclamation projects.

Modernization. Needs and modernization criteria. Performance analysis. Modernization and rehabilitation projects. Feasibility investigation. Socio-economic impact. Environmental impacts of modernization projects.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	The teaching methodology employed in the classroom				
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	Specialized software e-class platform				
TEACHING METHODS The manner and methods of teaching are described in detail.	Activity	Semester workload (hours)			
Lectures, seminars, laboratory practice, fieldwork,	Lectures	26			
study and analysis of bibliography, tutorials, placements, clinical practice, art workshop,	Class exercises	26			
interactive teaching, educational visits, project,	Team work	28			
essay writing, artistic creativity, etc.	Study at home	20			
The student's study hours for each learning activity	TOTAL	100			
are given as well as the hours of non-directed study according to the principles of the ECTS					
STUDENT PERFORMANCE	I. Final written theory examination (60%) comprising:				
EVALUATION Description of the avaluation procedure	- Multiple choice questions				
Description of the evaluation procedure	- Open questions				
Language of evaluation, methods of evaluation,	- Problem solving				
summative or conclusive, multiple choice questionnaires, short-answer questions, open-ended					
questions, problem solving, written work, essay/report, oral examination, public	II. Laboratory Grade (40%) - Presentation of team project				
presentation, laboratory work, clinical examination					
of patient, art interpretation, other	r	•			
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.					

5. ATTACHED BIBLIOGRAPHY

Performance analysis of on-demand pressurized irrigation systems, N.Lamaddalena, J.A. Sagardoy, FAO 59.