COURSE OUTLINE

1. GENERAL

FACULTY	ENVIRONMENT AND AGRICULTURAL ENGINEERING		
SECTION	Valorization of Natural Resources & Agricultural Engineering		
LEVEL OF STUDY	UNDERGRADUATE		
COURSE CODE	**221**	**SEMESTER OF STUDY**	**9**
COURSE TITLE	LANDSCAPING		

INDEPENDENT TEACHING ACTIVITIES *in case the credits are awarded to distinct parts of the course e.g. lectures, laboratory exercises, etc. If the credits are awarded uniformly for the entire course, indicate the weekly teaching hours and the total credits*	**TEACHING WEEKS**	**CREDITS**
Theory	3	3
Laboratory	2	2
Total		**5**
Add rows if needed. The teaching organization and teaching methods used are described in detail in (d).		

COURSE TYPE *general background, special background, specialization general knowledge, skills development*	General Knowledge Specialization
PREREQUISITE COURSES:	• MATERIAL STRENGTH • PLANT PHYSIOLOGY
LANGUAGE OF INSTRUCTION AND EXAMINATIONS:	Greek
THE COURSE IS OFFERED TO ERASMUS STUDENTS	NO
COURSE WEBSITE (URL)	

2. LEARNING OUTCOMES

Learning Outcomes

The learning outcomes of the course are described, the specific knowledge, skills and competences of an appropriate level that students will acquire after the successful completion of the course.

Consult Appendix A

- *Description of the Level of Learning Outcomes for each cycle of study according to the Qualifications Framework of the European Higher Education Area*
- *Descriptors of Levels 6, 7 & 8 of the European Qualifications Framework for Lifelong Learning and Annex B*
- *Learning Outcomes Writing Summary Guide*

Students, upon successful completion of the course, will be able to:
 Understand the various gardening rhythms and composition criteria and design of landscaping.
 Understand the characteristics, select and create compositions with various ornamental plants, trees, shrubs, climbers, herbaceous, rock-loving plants and algae ground cover.
 Understand the characteristics, select and create compositions with various materials:. Wood, stone, stone products, slabs, mortars and mortars, ceramics, artificial stones, concrete
 Understand the criteria and design landscaping constructions: foundations, paths, landings, masonry, stairs, pergolas, fences., walls retaining, special constructions and equipment with water and light.
 Utilize knowledge as a whole to create architectural compositions landscaping.

General Competencies

Taking into account the general competencies that the graduate must have acquired (as listed in the Diploma Supplement and listed below), which of them does the course aim at?.

Search, analyze and synthesize data and information, using the necessary technologies	*Project planning and management*
Adapting to new situations	*Respect for diversity and multiculturalism*
Decision-making	*Respect for the natural environment*
Autonomous work	*Demonstrate social, professional and ethical responsibility and sensitivity to gender issues*

Teamwork *Working in an international environment* *Working in an interdisciplinary environment* *Generation of new research ideas*	*Criticism and self-criticism* *Promoting free, creative and inductive thinking* *……* *Other...* *…….*

Search, analyze and synthesize data and information, using the necessary Technologies
Visits to nurseries – garden architecture design programs
Decision-making
Autonomous landscaping work – design
Project planning and management
Respect for the natural environment
Promoting free, creative and inductive thinking

3. COURSE CONTENT

o Introduction to landscaping. The criterion of composition and size.
o Ornamental plants: trees, shrubs, climbers, herbaceous, rock gardens and rock lovers plants, turf.
o Materials: outdoor use-properties. Wood (properties, influence of the environment, species and uses). Stones (natural materials, mortars and mortars). Ceramics (properties, articles in
outdoors, artificial stones). Concrete (preparation, categories, properties, cement: categories, properties, aggregates: categories, properties,, concrete composition).
o Design of constructions-landscaping of outdoor spaces: foundations, paths, landings, masonry, stairs, pergolas, fences. Retaining walls, special Construction. Water and light.
o Architectural composition of landscaping. – Design work landscaping of an outdoor space.

4. TEACHING AND LEARNING METHODS - ASSESSMENT

DELIVERY *METHOD Face to face, Distance learning, etc.*	*Face to face*
USE OF INFORMATION AND COMMUNICATION TECHNOLOGY *Use of ICT in Teaching, Laboratory Training, Communication with students*	**Use of ICT in Teaching and Communication with students** **Laboratory Training**
TEACHING ORGANIZATION *The method and methods of teaching are described in detail.* *Lectures, Seminars, Laboratory Exercise, Field Exercise, Bibliography Study & Analysis, Tutorial, Internship (Placement), Clinical Practicing, Art Workshop, Interactive Teaching, Educational visits, Project Writing, Writing a project / assignments, Artistic creation, etc.* *The student's study hours for each learning activity as well as the hours of unguided study according to ECTS principles are listed*	
STUDENT EVALUATION *Description of the evaluation process* *Assessment Language, Assessment Methods, Formative or Summative, Multiple Choice Test, Short Answer Questions, Essay Development Questions, Problem Solving, Written Assignment, Essay/Report, Oral Examination, Public Presentation, Laboratory Work, Clinical Examination of a Patient, Artistic Interpretation, Other/Others* *Explicitly defined evaluation criteria and whether and where they are accessible to students are mentioned.*	• Course attendance - Class participation • Assignments of tasks: a) collection, classification and presentation of ornamental plants, (b) collection, and presentation of landscaping materials (20%) • Landscaping plan (30%) • Final examination of the entire syllabus (50%) that will used for the overall assessment of students combined with results Project and Work Evaluation

Activity	*Semester Workload*
Lectures	70
Laboratories	30
Total Course	***100***

5. RECOMMENDED-BIBLIOGRAPHY

- Suggested Bibliography:

-Related scientific journals

Landscape Architecture 5th edition Jack E. Ingels Publications ION, ISBN : 960-411-350-X 20032003 ATHENS 14804
• Landscape Architecture - Introduction to Theory & Application Ioannis A. Tsilikidis Epikentro Publications S.A. ISBN 978-960-458-015-9 2008 THESSALONIKI 11007

COURSE OUTLINE

1. GENERAL

SCHOOL			
ACADEMIC UNIT			
LEVEL OF STUDIES			
COURSE CODE		**SEMESTER**	
COURSE TITLE			

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**
Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).		

COURSE TYPE *general background, special background, specialised general knowledge, skills development*	
PREREQUISITE COURSES:	
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	
IS THE COURSE OFFERED TO 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*

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	*Project planning and management*
Adapting to new situations	*Respect for difference and multiculturalism*
	Respect for the natural environment

Decision-making *Working independently* *Team work* *Working in an international environment* *Working in an interdisciplinary environment* *Production of new research ideas*	*Showing social, professional and ethical responsibility and sensitivity to gender issues* *Criticism and self-criticism* *Production of free, creative and inductive thinking* *……* *Others…* *……*

3. SYLLABUS

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY *Face-to-face, Distance learning, etc.*	
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY *Use of ICT in teaching, laboratory education, communication with students*	
TEACHING METHODS *The manner and methods of teaching 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 non-directed study according to the principles of the ECTS*	
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.*	

Activity	***Semester workload***
Course total	

5. ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

- Related academic journals: