COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES				
ACADEMIC UNIT	FOOD SCIENCE AND TECHNOLOGY				
LEVEL OF STUDIES	UNDERGRADUATE				
COURSE CODE	FST_201 SEMESTER OF STUDIES SECOND				
COURSE TITLE	ORGANIC CH	RGANIC CHEMISTRY			
INDEPENDENT TEACHI if credits are awarded for separate co lectures, laboratory exercises, etc. If the whole of the course, give the weekly teach	e credits are awarded for the HOURS				
L	Lectures and laboratory work 3 (lect.) 2 (lab.) 5				
Add rows if necessary. The organisation of methods used are described in detail at (a					
COURSE TYPE	General background course				
general background, special background, specialised general knowledge, skills development					
PREREQUISITE COURSES:	Typically, there are not prerequisite course.				
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek.				
IS THE COURSE OFFERED TO ERASMUS STUDENTS	No				
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

At the end of this course every student is expected to have obtained the main characteristics of organic compounds.

Moreover this course introduces the student to the most recent information on subjects as renewable sources of energy, biofuels, biodegradable plastics, environmental impact of pesticides.

Furthermore students will obtain the necessary knowledge that will help them to understand the content of next courses as "Food Chemistry", "Food Technology", "Food Safety", "Biochemistry"

By the end of this course every student will be familiar with the use of reagents, solvents and basic organic chemistry laboratory techniques.

General Competences	
Taking into consideration the general competences that a below), at which of the following does the course aim?	the degree-holder must acquire (as these appear in the Diploma Supplement and appear
Search for, analysis and synthesis of data and information, with the use of the necessary technology	Project planning and management
	Respect for difference and multiculturalism
Adapting to new situations	
- · · ·	Respect for the natural environment
Decision-making	Chaming assist and fasting and athing associatibility and associations to an day issues
Working independently	Showing social, professional and ethical responsibility and sensitivity to gender issues
working independently	Criticism and self-criticism
Team work	
	Production of free, creative and inductive thinking
Working in an international environment	
Working in an interdisciplinary environment	04
Draduction of new recease ideas	Others
Production of new research ideas	
Conorally, by the and of this source the st	ident will have develop the following general abilities (from the

Generally, by the end of this course the student will have develop the following general abilities (from the list above):

Autonomous (Independent) work Group work Respect to natural environment Work design and management

3. SYLLABUS

Introduction. Nomenclature of organic chemistry. Classification of organic reactions. Conformation of molecules – stereochemistry. Isomerism. Saturated and unsaturated hydrocarbons (properties and reactions of alkanes, alkenes and alkynes, Organometallic compounds).Polymers, biodegradable plastics. Energy-Hydrocarbons-Biofuels. Carbonyl compounds. Lipids.Nitrogen-containing compounds Aromatic compounds and aromaticity, electrophilic aromatic substitution.Sugars (oligo- and polysaccharides). Basic Organic Chemistry Laboratory techniques

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Lectures and Laboratory practice face to face.				
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	Use of Information and Communication Technologies (ICTs) (e.g. powerpoint) in teaching. Notes with the content of the course are uploaded on the internet, where from the students can freely download them using a password which is provided to them at the beginning of the studies.				
TEACHING METHODS	Activity Semester workload				
The manner and methods of teaching are	Lectures (3 conduct hours per week x 13 weeks)	39			
described in detail. Lectures, seminars, laboratory practice,	Laboratory work (2 conduct hours per week x 10 weeks)	20			
fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art	Laboratory reports (2 hours per week x 8 reports)	16			
workshop, interactive teaching, educational visits, project, essay writing, artistic creativity,	Final examination (3 conduct hours)	3			
etc.	Hours for private study of the student	47			
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	Total number of hours for the Course (25 hours of work-load per ECTS credit)	125 hours (total student work-load)			
STUDENT PERFORMANCE	1. Written examination after the end of the semester. The mark constitutes				
EVALUATION Description of the evaluation procedure	 the 75% of the final grade (G_{75%}). Minimum passing grade: 5. 2. Reports following completion of each laboratory experiment. The mean mark constitutes the other 25% of the final grade (G_{25%}). Minimum passing grade: 5. 				
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	The final grade for the course is calculated by the final grade in the Lab (25%) and the grade of the final written examination (75%). The student must have secured a minimum grade of 5 in both Lab and the final written examination.				

examination of patient, art interpretation, other
Specifically-defined evaluation criteria are given, and if and where they are accessible to students.

5. ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

1. Organic Chemistry by N. Alexandrou and A. Varvogli, Publisher Ziti

2. Organic Chemistry, by Meislish et.al., Publisher ΕΣΠΙ εκδοτική

3. Organic Chemistry, John McMurry, Cengage Learning

- Related academic journals: