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 CHEMISTRY				
if credits are awarded for separate collectures, laboratory exercises, etc. If the whole of the course, give the weekly teach	mponents of the course, e.g. e credits are awarded for the		WEEKLY TEACHING HOURS		CREDITS
L	ectures and la	boratory work	3 (lect.) 2 (la	o.)	5
Add rows if necessary. The organisation of methods used are described in detail at (d	_	the teaching			
COURSE TYPE general background, special background, specialised general knowledge, skills development	General back	ground course			
PREREQUISITE COURSES:	Typically, the	ere are not prere	equisite 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 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

Project planning and management

information, with the use of the necessary technology

Respect for difference and multiculturalism

Adapting to new situations

Respect for the natural environment

Decision-making

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

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Working in an interdisciplinary environment

Others...

Production of new research ideas

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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	Lectures and Laboratory practice face to face.				
Face-to-face, Distance learning, etc.					
USE OF INFORMATION AND					
COMMUNICATIONS TECHNOLOGY	= :				
Use of ICT in teaching, laboratory education,	internet, where from the students can freely download them using a password				
communication with students	which is provided to them at the beginning of the studies.				
THE CHANGE METERS OF C			1		
TEACHING METHODS	Activity	Semester workload			
The manner and mother de of teaching and	Lectures (3 conduct hours	39			
The manner and methods of teaching are described in detail.	per week x 13 weeks)	20			
described in detail.	Laboratory work (2 conduct	20			
Lectures, seminars, laboratory practice,	hours per week x 10 weeks)	1.6			
fieldwork, study and analysis of bibliography,	Laboratory reports (2 hours	16			
tutorials, placements, clinical practice, art	per week x 8 reports)	3			
workshop, interactive teaching, educational	Final examination (3 conduct hours)	3			
visits, project, essay writing, artistic creativity,		47			
etc.	Hours for private study of the student	4/			
	Total number of hours for				
	the Course 125 hours (total student				
The student's study hours for each learning	(25 hours of work-load per	work-load)			
activity are given as well as the hours of non-	ECTS credit)	work today			
directed study according to the principles of					
the ECTS	L				
STUDENT PERFORMANCE	Written examination afte	r the end of the semester. The	mark constitutes		
EVALUATION	the 75% of the final grade (G)				

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,

- 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.

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.

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:			