COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCES			
ACADEMIC UNIT	FOOD SCIENCE AND TECHNOLOGY			
LEVEL OF STUDIES	UNDERGRADUATE			
COURSE CODE	FST_E08 SEMESTER OF STUDIES			
COURSE TITLE	FOOD ADDITIVES			
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	ECTS CREDITS	
	Lectures a	and seminars	4	5
				5
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	Elective Specialised general knowledge			
PREREQUISITE COURSES:	Typically, there are not prerequisite course.			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek / English			
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes			
COURSE WEBSITE (URL)	https://ecla	ss.upatras.gr/		

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

The course aims to learn and deepen the concepts: Desirable Chemicals Food Additives and Unwanted Chemical Food Additives.

Upon successful completion of the course the student will be able to:

- acquiring knowledge of the desired food additives
- acquiring knowledge of unwanted food additives
- acquiring knowledge of the relevant legislation on food additives
- acquiring knowledge about the control methods of food additives;

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
Working independently	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 Others...

Generally, by the end of this course the student will have develop the following general abilities (from the list above): Autonomous (Independent) work Adapting to new situations Promotion of free, creative and inductive thinking Respect for the food safety Project planning and management

3. SYLLABUS

Introduction, Chemical Food Additives, Organic Acid - Emulsifiers - Antioxidant compounds, Pigments - Flavors - Sweeteners, Cleansers - Stabilizers and stabilizers - Chelates, Explosives and improvers - Antimicrobial agents, undesirable substances. Pesticides residues Saponins - cyanogens, phabism - Paralytic shellfish poisoning - Carragennan - carcinogens in smoked, cooked foods, Supplement E, Legislation, Allergens, Chemical migration from packaging.

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY Face-to-face, Distance learning, etc.	Lectures 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. The lectures content of the course for each chapter are uploaded on the internet, in the form of pdf files, 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 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.	Lectures (3 conduct hours per week x 13 weeks) Seminars (1 conduct hour per week x 13 weeks)	39 13		
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	work on an assignment	16		
ECTS	Final examination (3 conduct hours)	3		
	Hours for private study of the student	54		
	Total number of hours	125 hours		

	for the Course (25 hours of work- load per ECTS credit)	(total student work- load)	
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.	 Written examination afte mark constitutes the 75% Assignment provided dur constitutes the other 25% The final grade for the course i in the assignment (25%) and th examination (75%). 	r the end of the semester. Th of the final grade (G _{75%}). ring the term. The mean mar of the final grade (G _{25%}). is calculated by the final grade he grade of the final written	e k

5. ATTACHED BIBLIOGRAPHY

- Suggested bibliography:

Οδηγός Πρόσθετων ουσιών (Ε) Υπουργείο Υγείας - Γενικού Χημείου του Κράτους, 2008

- Literature in English:

Food Additives, 2nd Edition, A. Larry Branen, P. Michael Davidson, Seppo Salminen, John Thorngate, Taylor and Francis, CRC Press Published November 1, 2001 Reference - 952 Pages ISBN 9780824793432 - CAT# DK5110 Series: Food Science and Technology