COURSE OUTLINE

1. GENERAL

SCHOOL	AGRICULTURAL SCIENCE			
ACADEMIC UNIT	FOOD SCIENCE AND TECNOLOGY			
LEVEL OF STUDIES	UNDERGRADUATE			
COURSE CODE	FST_700	FST_700 SEMESTER 7		
COURSE TITLE	INNOVATION AND ENTREPRENEURSHIP IN FOOD PRODUCTION			
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	
Lectures, seminars		4	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	Specialized general knowledge			
PREREQUISITE COURSES:	There are no prerequisite courses			
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

Upon successful completion of the course, students will be able to successfully complete the following:

- Design and execution of a controlled new food production project.
- Choosing, conducting and summarizing the results of appropriate organoleptic and objective methods for food assessment.
- Development and designation of a new product, development of the standard recipe, computer analysis of the nutritional content of the food, way of presentation (demonstration of food preparation).
- Design and study of product production problem.
- Create a written plan and timetable for data collection and resolution of any problems encountered (including the evaluation of new components or manufacturing methods, creation of a new food product or evaluation of a product for specific markets).
- Find and review the bibliography that is relevant to the particular problem.

- Use the principles of interaction of food ingredients to improve and redefine the approach as product development progresses and may change the interpretation of the data.
- Demonstration of the ability to communicate the results of the project, by writing an appropriate report, evaluating it and presenting it in a seminar.

General Competences				
Taking into consideration the general competences that	aking 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	Criticism and self-criticism			
Working in an international environment	Production of free, creative and inductive thinking			
Working in an interdisciplinary environment				
Production of new research ideas	Others			

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

- Adaptation to new situations
- Decision making
- Autonomous (Independent) work
- Group work
- Development of criticism and self-criticism
- Development of creative and inductive thinking

3. SYLLABUS

Sstudents will explore their creativity through a combination of a food product designer trainer who will include organoleptic and objective quality assessment, prescription development, problem solving, experimental design, and written and oral product communication. I

ndividually or in groups, students will focus on assessing new components or technologies, creating new products, and evaluating the marketability of a new product.

The course is designed to introduce students into the process of developing new food products for marketing, for special needs or for specific purposes.

The course makes use of the knowledge acquired to this stage and includes:

- Organoleptic and objective evaluation (methods, conduct, analysis
- data, interpretation and presentation)
- Challenges to innovation: development, organoleptic and nutritional assessment
- Design of a special product
- Define the problem
- Schedule of the project
- Review of the bibliography
- Choice of appropriate organoleptic and objective evaluation tools
- Run the project
- Growth of the food as the goal
- Relevant legislation
- Collecting data

- Data aggregation and analysis
- Product production process
- Quality and lifespan
- Check points
- Communication of results
- Submission presentation of the project

4. TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face		
Face-to-face, Distance learning, etc.			
USE OF INFORMATION AND	Use of ICTs in teaching.		
COMMUNICATIONS TECHNOLOGY	Use of e-class –all the lectures in a series of .ppt files, where		
Use of ICT in teaching, laboratory education,	students have access.		
communication with students	Communication with students	: use of the e-mail and the	
	department's website.		
TEACHING METHODS	Activity	Semester workload	
	Lectures (3 conduct hours	39	
The manner and methods of teaching are	per week x 13 weeks)		
described in detail.	Seminars (1 conduct hour	13	
	per week X 13 weeks)		
Lectures, seminars, laboratory practice,	Final examination (3	3	
fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art	conduct hours)		
workshop, interactive teaching, educational	Hours for private study of	70	
visits, project, essay writing, artistic creativity,	the student and preparation		
etc.	of an assignment		
	Total number of hours for	125	
	the Course		
	(25 hours of work-load per		
The student's study hours for each learning	ECTS credit)		
activity are given as well as the hours of non- directed study according to the principles of			
the ECTS			
STUDENT PERFORMANCE	Student assessment is mainly based on the written		
EVALUATION	examination at the end of t	he semester, which includes	
	questions that evaluate both	the acquired knowledge by	
Description of the evaluation procedure	students and their ability to utilize them critically.		
	Grading scale: 1 to 10.		
Language of evaluation, methods of	Minimum passing grade: 5.		
evaluation, summative or conclusive, multiple choice questionnaires, short-answer questions,	Examination time: 3 hours.		
open-ended questions, problem solving,			
written work, essay/report, oral examination,	However, students can gain extra points in their final grade		
public presentation, laboratory work, clinical	by working on an assignment provided during the term. This		
examination of patient, art interpretation,	is not compulsory but can significantly contribute to their		
other			
	final personal record.		
Specifically-defined evaluation criteria are	Creater are based 2000 on projection and 2000 on final		
given, and if and where they are accessible to students.	Grades are based 25% on assignment and 75% on final exams.		
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5. ATTACHED BIBLIOGRAPHY

- 1. Aluko, R.E. (2012). Functional Foods and Nutraceuticals. Springer.
- 2. Earle, M.D. and Earle, R.L. (2008). Case Studies in Food Product Development. Woodhead.
- 3. Fuller, G.W. (2011). New Food Product Development: From Concept to Marketplace, Third Edition. Taylor & Francis.
- 4. Lawless, H.T. (2012). Laboratory Exercises for Sensory Evaluation. Springer.
- 5. Lawless, H.T. and Heymann, H. (2010). Sensory Evaluation of Food: Principles and Practices. Springer.
- 6. MacFie, H. (2007). Consumer-Led Food Product Development. CRC Press.
- 7. Moskowitz, H.R., Beckley, J.H. and Resurreccion, A.V.A. (2012). Sensory and Consumer Research in Food Product Design and Development. John Wiley & Sons.
- 8. Rychlik, M. (2011). Fortified Foods with Vitamins: Analytical Concepts to Assure Better and
- 9. Safer Products. John Wiley & Sons.
- $10.\,$ Smith, J. and Charter, E. (2011). Functional Food Product Development. John Wiley & Sons.