## **COURSE OUTLINE**

## 1. GENERAL

SCHOOL	AGRICULTURAL AND FORESTRY SCIENCES				
DEPARTMENT	AGRICULTURAL DEVELOPMENT				
LEVEL OF STUDIES	ISCED LEVEL 7-MASTER OR EQUIVALENT				
COURSE CODE	PBTF06 SEMESTER 2 <sup>ND</sup>				
COURSE TITLE	SPECIAL TOPICS OF FOOD SCIENCE AND TECHNOLOGY				
TEACHING ACTIVITIES		TEACHING HOURS PER WEEK		ECTS CREDITS	
LECTURES		3		7.5	
COURSE TYPE	SCIENTIFIC AREA				
PREREQUISITES	-				
TEACHING & EXAMINATION LANGUAGE	GREEK				
COURSE OFFERED TO ERASMUS STUDENTS	NO				
COURSE URL	https://eclass.duth.gr/courses/1426245/				

# 2. LEARNING OUTCOMES

#### Learning Outcomes

To comprehend the methodology and the ways of scientific research implementation from the initial conception of the idea and the bibliographic review, the writing of research proposals, the development of research methodologies, the analytical-laboratory work, the analysis and presentation of the results as well as the options for their diffusion.

#### **General Skills**

- Independent and team work
- Search, analysis and synthesis of data and information, ICT Use
- Development of inductive reasoning
- Critical thinking

# 3. COURSE CONTENT

The content of the course is determined based on the individual lectures from the visiting professors. Each lecture or series of lectures has a basic topic. Each topic is discussed, described and analysed accordingly. Key topics include:

- Biotechnological applications in food with the utilization of microorganisms
- The use of natural antimicrobial agents to protect or increase the shelf life of food
- The utilization of by-products of the agricultural or food industry
- Molecular applications in the preparation, analysis, evaluation of special characteristics of food
- Decision making methodology
- Risk assessment
- Current issues related to food science

# 4. LEARNING & TEACHING METHODS - EVALUATION

**TEACHING METHOD** Distance learning

USE OF INFORMATION & COMMUNICATIONS TECHNOLOGY (ICT)	MS Power point, Duth e-class, MS Teams for distance learning				
TEACHING ORGANIZATION	Activity	Workload/semester			
	Lectures	39			
	Individual written assignments	75			
	Independent study	73.5			
	Course Total	187.5			
STUDENT EVALUATION	<ul> <li>Submitted assignments: 25% of the final score</li> <li>Written exams at the end of the semester (multiple- choice questions): 75% of the final score</li> </ul>				
	Students are aware of the process from the start of the semester and are constantly informed via the e-class platform.				

# 5. SUGGESTED BIBLIOGRAPHY

Proposed from each lecturer.

ANNEX OF THE COURSE OUTLINE				
Alternative ways of examining a course in emergency situations				
Teacher	Athanasios Alexopoulos (Coordinator)			
Contact details	alexopo@agro.duth.gr, 2552041169, e-class			
Supervisors	Νο			
<b>Evaluation methods</b>	Written assignments and final exercises			
Implementation Instructions	<ul> <li>Written assignments should be uploaded in e-class platform until the day of the final exams.</li> <li>Final exams (multiple choice questions) will be accessible via e-class platform at the specific date and time.</li> <li>In the case of difficulties with the platform, please contact the coordinator Prof. Athanasios Alexopoulos.</li> </ul>			