

COURSE OUTLINE

(1) GENERAL

SCHOOL	School of Applied Economics & Social Sciences		
ACADEMIC UNIT	Agricultural Economics & Rural Development		
LEVEL OF STUDIES	Undergraduate		
COURSE CODE	271	SEMESTER	7th
COURSE TITLE	PRINCIPLES OF FOOD INDUSTRY		
INDEPENDENT TEACHING ACTIVITIES <i>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</i>		WEEKLY TEACHING HOURS	CREDITS
Lectures and Practice Exercises		3	5
<i>Add rows if necessary. The organisation of teaching and the teaching methods used are described in detail at (d).</i>			
COURSE TYPE <i>general background, special background, specialised general knowledge, skills development</i>	Background and General Knowledge		
PREREQUISITE COURSES:			
LANGUAGE OF INSTRUCTION and EXAMINATIONS:	Greek		
IS THE COURSE OFFERED TO ERASMUS STUDENTS	Yes (in English)		
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*

This course is the basic introductory course in food science and technology. It introduces:

- the basic and fundamental principles of food science and the underlying technologies associated with the production of safe and nutritious fresh and processed food for humans.
- the main food processing and preservation technologies such as dehydration (drying), cooling, freezing, heat treatment (canning).

Upon successful completion of the course, the student:

- Will have knowledge and understanding of the basic issues as well as the latest developments in Food Science and Technology.
- Will have acquired the ability to understand complex concepts and to informed about developments in the field of Food Science and Nutrition.
- Will be able to formulate and express an opinion on issues of Food Science and Nutrition to multiple recipients such as the scientific audience of other fields of knowledge, the Food Industry, especially audiences of the professional area and the society as a whole.
- Will have acquired Food and Nutrition communication skills.

The knowledge, scientific abilities and skills that the student will have acquired with this introductory course will be able to be used (if they wish to be guided) in a subsequent cycle of studies in this or related scientific subjects.

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 information, with the use of the necessary technology

Adapting to new situations

Decision-making

Working independently

Team work

Working in an international environment

Working in an interdisciplinary environment

Project planning and management

Respect for difference and multiculturalism

Respect for the natural environment

Showing social, professional and ethical

responsibility and sensitivity to gender issues

Criticism and self-criticism

Production of free, creative and inductive thinking

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Others...

<i>Production of new research ideas</i>
<ul style="list-style-type: none"> • Search, analysis and synthesis of data and information, using the necessary technologies. • Adaptation to new situations. • Autonomous work. • Work in an interdisciplinary environment. • Generating new research ideas. • Respect for diversity and multiculturalism. • Respect for the natural environment. • Demonstration of social and moral responsibility and sensitivity to gender issues. • Exercise criticism. • Promotion of free, creative and inductive thinking.

(3) SYLLABUS

<p>A. General part</p> <ol style="list-style-type: none"> 1. Introduction 2. The nature of food – Principal chemical constituents 3. Food quality and safety 4. Food preservation methods <p>B. Special part – Food processing</p> <ol style="list-style-type: none"> 5. Fruits - Vegetables 6. Cereals 7. Potato 8. Sugar 9. Wine 10. Olive Products: - Table (Edible) Olive - Olive Oil 11. Seed oils - Fats 12. Milk and milk products 13. Meat and Poultry 14. Catches
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TEACHING and LEARNING METHODS - EVALUATION

<p>DELIVERY <i>Face-to-face, Distance learning, etc.</i></p>	Lectures in the amphitheater using teaching aids (ppt, Video, slides)	
<p>USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY <i>Use of ICT in teaching, laboratory education, communication with students</i></p>	Use Powerpoint slides. Communication with students via e-mail, e-class and e-student platforms. Learning process support through access to e-class, online databases, etc.	
<p>TEACHING METHODS <i>The manner and methods of teaching are described in detail.</i> <i>Lectures, seminars, laboratory practice,</i></p>	Activity	Semester workload
	Lectures	39
	Bibliographic research	40

<p><i>fieldwork, study and analysis of bibliography, tutorials, placements, clinical practice, art workshop, interactive teaching, educational visits, project, essay writing, artistic creativity, etc.</i></p> <p><i>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</i></p>	papers (individual or group) in a case study. A total of 7 tasks	
	Research bibliography with thesis presentation	17
	Weekly Study Hours	26
	Written final exam	3
	Course Total (25 workload hours per credit unit)	125
<p>STUDENT PERFORMANCE EVALUATION</p> <p><i>Description of the evaluation procedure</i></p> <p><i>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</i></p> <p><i>Specifically-defined evaluation criteria are given, and if and where they are accessible to students.</i></p>	<p>Examination language Greek (and English for ERASMUS Students) Evaluation of the student:</p> <p>A) Each student undertakes to prepare 7 bibliographic research papers on the subjects of the course during the semester. These assignments give 20% of the final grade.</p> <p>At a fixed time at the end of the semester, the student develops a topic with sufficient bibliography, which he presents in PowerPoint to all his colleagues, under the supervision of the responsible professor. The writing and presentation of this paper gives the student 40% of the final grade of the course.</p> <p>B) Written final exam including:</p> <p>Multiple choice questions</p> <p>Short answer questions</p> <p>Benchmarking theory elements</p> <p>It gives the student 40% of the final grade of the course.</p>	

(4) ATTACHED BIBLIOGRAPHY

<ul style="list-style-type: none"> Food Chemistry, BELITZ D.-H., GROSCH W., SCHIEBERLE P. Publisher GIOLAS ISBN13 9789604183678 Principles of Food Technology, KIOSEOGLU VASILIOS, BLEKAS GEORGIOS, Publisher GARTAGANIS ISBN13 9789609828857 Food processing and packaging technologies, Arvanitogiannis Ioannis S., Stratakos Alexandros X., Publisher: University Studio Press, ISBN: 9789601220161 -Related scientific journals: Journal of Agricultural and Food Chemistry, Journal of Food Science and Technology, Agricultural and Environmental Chemistry, International Journal of Agricultural and Food Research (IJAFR) Journal of Food Processing & Technology
