COURSE OUTLINE

(1) GENERAL

SCHOOL	APPLIED B	IOLOGY AND	BIOTECHNOL	JOGY
DEPARTMENT	APPLIED BIOLOGY AND BIOTECHNOLOGY BIOTECHNOLOGY			
STUDY LEVEL	BACHELOF	BACHELOR OF SCIENCE		
COURSE CODE	3580		SEMESTER	7 th (Winter)
COURSE TITLE	FOOD QUALITY CONTROL & SENSORY ANALYSIS			
INDEPENDENT TEACH	INDEPENDENT TEACHING ACTIVITIES			
if credits are awarded for separate co	omponents of t	he course, e.g.	WEEKLY	
lectures, laboratory exercises, etc. Ij		-	TEACHING	ECTS
the whole of the course, give the we		hours and the	HOURS	
total cred	its			
		Lectures	3	
		Laboratory	2	
		Total	5	5
Add rows if necessary. The organisation of	-	he teaching		
methods used are described in detail at (a				
COURSE TYPE	specialised	general knowle	edge	
general background,				
special background, specialised				
general knowledge, skills				
development				
PREREQUISITE COURSES:	Food Micro	biology, Food I	Engineering, F	ood Chemistry,
	Statistics			
LANGUAGE OF INSTRUCTION	Greek			
and EXAMINATIONS:				
IS THE COURSE OFFERED TO	Yes (in Engl	Yes (in English)		
ERASMUS STUDENTS		,		
COURSE WEBSITE (URL)				
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(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 is a basic introductory course on the concepts of quality control and sensory evaluation of foods. The objectives of the course are the understanding and adoption of proper approach to the theory of quality concerning the integration of products from the beginning (built-in quality). The course combines theory with exercises in order to effectively cover the basic concepts of food quality control and sensory evaluation. Also, key assessment and control tools of food quality and sensory evaluation are presented. Therefore, the material of the course aims to introduce students to a) the basic concepts of quality and organoleptic tests of foods, b) how to troubleshoot and resolve quality problems with the help of statistical quality control and c) understanding of the methods and analysis of sensory evaluation data.

Upon successful completion of this course the student he / she will be able to :

- Clearly understand the importance of quality and its benefits, and that quality is a matter of prevention rather than checks or inspections
- Has understanding of the importance of the specifications, customers and variability for the definition of quality, and the relationship of the latter with quality problems
- A perception of the quality dimensions
- Combine statistics with quality to solve or prevent quality problems
- Has understanding of the application/implementation of the tools used to solve quality problems
- Grasping the need for continuous quality improvement
- Has understanding of the concept and methods of sensory examination
- Be familiar with the data analysis of the organoleptic tests

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	Respect for difference and multiculturalism
technology	Respect for the natural environment
Adapting to new situations	Showing social, professional and ethical
Decision-making	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	
Working in an interdisciplinary environment	Others
Production of new research ideas	

- Search, analyze and synthesize data and information
- Decision making
- Independent work
- Teamwork
- Work in an international environment
- Work in a multidisciplinary environment
- Generating new research ideas

(3) SYLLABUS

- Introduction to the principles of quality control of foods
- Theories of quality
- Qualitative characteristics of foods Dimensions of quality
- Introduction to statistical quality control of foods
- Data Analysis and Sampling Sampling plans of foods
- Statistical quality control of foods by the use of control charts
- Process capability analysis
- Solving quality control problems of foods
- Introduction to sensory evaluation of foods
- Methods of sensory evaluation of foods
- Data analysis of sensory evaluation of foods

(4) TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face	
Face-to-face, Distance learning, etc.		
USE OF INFORMATION AND	Power point presentations and exercises on the	
COMMUNICATIONS	Blackboard and computer	
TECHNOLOGY	Student contact electronically	
Use of ICT in teaching, laboratory		
education, communication with		
students		
TEACHING METHODS	Activity	Semester workload
The manner and methods of teaching are	Lectures	29

described in detail. Lectures, seminars, laboratory practice, fieldwork, study and analysis of	Interactive teaching (exercises)	10
bibliography, tutorials, placements, clinical practice, art workshop, interactive	Laboratory	26
teaching, educational visits, project, essay writing, artistic creativity, etc.	Educative excursion	12
The student's study hours for each learning activity are given as well as the hours of non-directed study according to	Shelf-study	48
the principles of the ECTS	Total contact hours and training	125

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	STUDENT PERFORMANCE				
	EVALUATION	I. Lectures and Interactive teaching:			
	Language of 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	 Written exams (100%) in Greek including: Multiple choice questions (50%) Short answer questions (20%) Exercises (30%) II. Laboratory Written exams (100%) in Greek including: Short answer questions (100%) 			
	Specifically-defined evaluation criteria are given, and if and where they are accessible to students.				

(5) ATTACHED BIBLIOGRAPHY

Dora Georgaki, Katerina Kouroupi, Stavros Politis, Dimitrios Rekkas. 2010. Total Quality Management. I. SIDERIS Publications.

Amitava Mitra. 2008. Fundamentals of Quality Control and Improvement, 3rd edition. WILEY Publications.

Herbert Stone and Joel L. Sidel. 2004. Sensory Evaluation Practices, 3rd edition. Academic Press Publications.