Cereals and Cereal Products Science and Technology

SCHOOL	FACULTY OF ENVIRONMENT				
	FOOD SCIENCE AND TECHNOLOGY				
LEVEL OF STUDIES	UNDERGRADUATE				
COURSE CODE	FST603 SEMESTER 6				
COURSE TITLE	CEREALS AND CEREAL PRODUCTS SCIENCE AND TECHNOLOGY				
INDEPENDENT TEACHING ACTIVITIES if credits are awarded for separate components of the course, e.g. lectures, laboratory exercise, 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	2		
			2		
T			4	6	
Add rows if necessary. The organisation of methods used are described in detail at (d) COURSE TYPE General background, special background,	-	evelopment			
specialised general knowledge, skills development					
PREREQUISITE COURSES:					
LANGUAGE OF INSTRUCTION and	Greek				
EXAMINATIONS:					
IS THE COURSE OFFERED TO	Yes (in Greek)				
ERASMUS STUDENTS					
COURSE WEBSITE (URL)					

LEARNING OUTCOMES

Learning Outcomes

The course earning 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 the student will be able to:

- Describe the characteristics, properties and composition of cereals
- Outline the technology for the manufacture of bakery products
- Develop methodologies for the production of bakery products
- Perform techniques for the analysis of bakery products
- Carry out quality checks necessary during the process
- Evaluate the quality characteristics of cereals and their products and relate them to the processing conditions

General Competences Taking into consideration the general competences that the of of the following does the course aim?	degree-holder must acquire (as these appear in the Diploma Supplement and appear below), at whic
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 Production of new research ideas	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 Others
 Adapting to new situations Decision-making Working independently Team work Criticism and self-criticism Production of free, creative and indu Search for, analysis and synthesis of 	uctive thinking data and information, with the use of the necessary technology
SYLLABUS	
C <mark>OUR</mark> SE CONTENT	
of cereals. Peeling of cereals. Wet m Pastry ingredients. Production of alc	ling methods and storage. Grain structure and composition. Dry grinding nilling of cereals. Various types of cereal foods. Wheat flour preparations cohol from cereals. Beer, whiskey. Principles and practices of quality diates and final products. Quality characteristics, standards, evaluation.
Laboratory Part of the Course	
 Quality control of flours, types of Sedimentation value test. Determination of acidity and pH i 	
	apacity of flours with the effect of improvers and auxiliary bakery
 Detection of improvers in flour. P Evaluation of the fermentation ca materials. 	
 6. Detection of improvers in flour. P 7. Evaluation of the fermentation can be addressed and the fermentation can be addressed and the second sec	apacity of flours with the effect of improvers and auxiliary bakery
 Detection of improvers in flour. P Evaluation of the fermentation ca materials. 	apacity of flours with the effect of improvers and auxiliary bakery

TEACHING and LEARNING METHODS - EVALUATION

DELIVERY	Face-to-face					
Face-to-face, Distance learning, etc.						
USE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY Use of ICT in teaching, laboratory education, communication with students	Use of information technology on data collection and information, in teaching and communication. Communication with students via web, e-mail, e-class and online folder sharing options etc.					
TEACHING METHODS	Activity	Semester workload				
The manner and methods of teaching are	Lectures Laborat <mark>ory</mark>	78 26				
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,	Total contact hours and training	104				
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						
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 Evaluation					
ATTACHED BIBLIOGRAPHY						
- Suggested bibliography:	ang 2005					
 Μποσδίκος Δ., Τεχνολογία Αρτοποίηα Κεφαλάς Π., Τρόφιμα από Σιτηρά, 20 Παπακώστα Τασοπούλου Δ., Ειδική Γ 	09.	012.				
4. Λάζος Ε., Λάζου Α., Επιστήμη & Τεχνο	ολογία Σιτηρών, 2016					

Performance Statistics of the last 2years						
Grade absolute (descending frequency order)		relative frequency %	sum of success rates per class			
SCIENCE & TECHNOLOGY OF CEREALS AND THEIR PRODUCTS						
10	1	1%	1%			
9	3	3%	<mark>4%</mark>			
8	6	6%	9%			
7	32	30%	40%			
6	64	60%	100%			
	106	100%				