General Information	
	BACELOR DEGREE IN BIOTECHONOLOGIES
Title of the subject	Food Technology
Degree Course (class)	INDUSTRIAL AND AGRI-FOOD BIOTECHNOLOGIES-
	Curriculum Agri-Food (L-2)
ECTS credits	6
Compulsory attendance	Yes
Language	Italian
Academic year	2020-21

Subject Teacher		
Name and Surname	Michele Faccia	
email address	michele.faccia@uniba.it	
Place and time of reception	Department of Soil, Plant and Food Sciences, section of Food Science and Technology (1st floor), via Amendola 165/a, Bari. Teacher's office	
	hours: from Monday to Friday f	rom 9 a.m to 16 p.m., by e-mail
	appointment.	
ECTS credits details	Discipline sector (SSD)	Area

AGR 15

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Study plan schedule	Year of study plan		Semester	
	111		2nd	
Time management	Lessons	Laboratory	Exercises	Total
CFU	4	2		6
Total hours	100	50		150
In-class study hours	32	24		56
Out-of-class study hours	68	26		94
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Syllabus

Prerequisites / Requirements

Knowledge of inorganic and organic chemistry, and of applied physics.

Expected learning outcomes (according to Dublin descriptors)		
Knowledge and understanding	Knowledge of the principles of food technology. Ability to understand	
	the technological phases influencing the quality characteristics of food	
	products of plant and animal origin in order to improve quality.	
Applying knowledge	Ability to define the technological parameters on the basis of their	
	effects on the composition, structure and properties of food	
	products.	
Making informed judgments and	Ability in correctly orienting the search for suitable solutions for the	

choices	production of high quality foods.
Communicating knowledge	Ability to describe the elements of food technology useful for food
	production aimed at exchanging ideas, information, data and
	methodologies with specialist and non-specialist interlocutors, on
	issues relating to the qualitative, nutritional and health aspects of food
	products
Capacities to continue learning	Ability to deepen and update knowledge on the compositional,
	nutritional and health aspects of food and on the influence of the
	processing technologies.
	Study Program
Content	Principles of food technologies; composition, properties and quality of
	food with particular reference to the presence of factors capable of
	influencing human health and well-being (contaminants, antinutritional
	components, microorganisms, sensory characteristics).
	Elements of technology of products of plant origin: fermented drinks.
	vegetable preserves, olive and seed oils.
	Elements of technology of products of animal origin: dairy products,
	meat and fish products.
Bibliography and textbooks	• class notes and didactic material distributed during the lessons.
	Cabras P., Martelli A., Chimica degli alimenti, Piccin (Padova), 2004     Handbook of Meat Processing, Blackwell Publishing, 2010
	<ul> <li>Processing Vegetables: Science and Technology. Technomic</li> </ul>
	Publishing CO., Inc, 1997.
	. Mucchetti G, Neviani E., Microbiologia e Tecnologia Lattiero-
	casearia, Tecniche Nuove.
	Scientific Reviews
l eaching methods	The topics of the course will be illustrated by Power Point presentations video films classroom or laboratory exercises reading
	of regulatory texts, educational visits to food companies. Digital tools
	and online platforms will also be used (personal teaching website,
	edmodo, google drive, mailing list, etc.) to provide study material and
	interact with students.
Assessment methods	Students enrolled in the year in which the course is held can take an
(oral, written, ongoing assessment)	oral ongoing test, consisting of 3 questions on the topics addressed
	knowledge demonstrated (from 0 to 5 points for each question, the
	minimum score to consider the test passed is 9). The outcome of this
	test will contribute to the evaluation of the final exam and is valid for
	one academic year.
	The exam consists of an oral test on the topics developed during
	and in the laboratory. The test will be evaluated based on the lovel of
	knowledge demonstrated.
	The exam for foreign students can be done in English.
Evaluation criteria (describe	Describing the technological phases influencing the quality
criteria for each of the above	characteristics of food products of plant and animal origin, with the
expected outcomes)	purpose of improving it.
	Applied knowledge and understanding Describing the technological parameters of the process as a function
	of the effects on the composition, structure and properties of food.

	Autonomy of judgment
	Describing how to orient food processing technologies to improve
	the compositional, nutritional and health aspects of food products.
	Communication skills
	Communicating with specialist and non-specialist interlocutors about
	issues related to food technologies, with particular reference to the
	compositional, nutritional and nearth aspects of products and the
	influence of the processing technologies
	Ability to learn
	Description of the learning methods and channels for deepening and
	updating knowledge on the compositional, nutritional and health
	aspects of food and the influence of processing technologies.
Further information	