

Dipartimento di Medicina Veterinaria



General information				
Academic subject	Food Techno	logy		
Degree course	Safety and Health of Food of Animal Origin			
Academic Year	2021/22			
European Credit Transfer and Accumulation System (EC		em (ECTS)	6	
Language	Italian			
Academic calendar (starting and ending date)		1st semester		
Attendance	Not mandatory			

Professor/ Lecturer	
Name and Surname	Michele Faccia
E-mail	michele.faccia@uniba.it
Telephone	+39.080.5443012
Department and address	Veterinary Medicine Campus – Valenzano (BA)
Virtual headquarters	
Tutoring (time and day)	From Monday to Friday by e-mail appointment

Syllabus	
Learning Objectives	The course aims to transfer to the students the principles and applications of the traditional and innovative technologies in the field of food preservation and processing. A further objective is to transfer problems and solutions for the analytical evaluation of the quality of raw matters and finished products, also by discussing some case studies
Course prerequisites	Organic Chemistry and Microbiology
Contents	Technology of cured meat products and fish products. Technology of Fermented milk, cream and butter. Dairy technology. Definitions and objectives of process and product innovation. Mild technologies: membrane technology, ultrasounds, irradiation, microwave, extraction using supercritical fluids, hyperbaric sterilization, natural antimicrobials. Product innovation: functional and novel foods. Innovation in the dairy industry. Strategies for the control of non-pathogenic spoilage microrganisms; innovative technologies for the treatment of dairy wastes. Innovations in the production technology of stretched and non-stretched curd cheeses; lactose-free and fortified cheeses; functional cheeses; cheese analogues for vegan people. Practical classes: HPLC applications with for the characterization of cheeses and meat products. Sensory analysis techniques applied to cheese; Electrophoretic techniques for proteomics in dairy and meat products.
Books and bibliography	Zambonelli, Coloretti, Grazia. Tecnologia dei salumi. Edagricole; Mucchetti-Neviani. Tecnologia e Microbiologia Lattiero_casearia, Tecniche Nuove; Lectures notes; slides of the lessons
Additional materials	



Dipartimento di Medicina Veterinaria



Total 85	Lectures		Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours				
150	60		25	65
ECTS				
6	5		1	
Teaching strates	gy .	to the s Depart	es are held with the aid of PowerPoint presentations the student in pdf format. Practical classes are held in the I ment of Veterinary and/or of the Department of Soil, Ples. Each student will be trained to perform personally the	aboratories of the lant and Food
Expected learning	ng outcomes			
Knowledge and on:		0	Knowledge of the processing technologies of some products Understanding the basic criterion for the evaluation compositional and sensory quality of food products of Knowledge about process and product innovation in the	of the technological,
Applying knowle understanding o	_	0	Understanding the specific technologies of pasta filata Understanding the variables at the basis of the qualit meat products Application of analytical techniques for evaluating the cured meat products	y of cheese and cured
Soft skills		• Co	aking informed judgments and choices judging and describing a process flow in the food animal origin) judging and describing the expected quality obtainabl of the processing techniques to milk and meat knowing the principles of the chemical and sensor cheese mmunicating knowledge and understanding Describing the relationships between processing to quality Communicating the basic procedures for the evalua qualiuty pacities to continue learning Capacity to proceed autonomously in deepening processes and products	e from the application y analyses applied to echnologies and food tion of food products

Assessment and feedback	
Methods of assessment	Oral exam (at least three questions regarding the arguments included in the
	programme)
Evaluation criteria	Knowledge and understanding
	 Relevancy and certainty of the information given while answering to the questions raised by the teacher
	 Applying knowledge and understanding Level of technical deepening of the answers
	Autonomy of judgment
	 Capacity of making connections among different arguments
	Communication skills
	 Clarity and linguistic fluency



Dipartimento di Medicina Veterinaria



	 Capacities to continue learning Hints and personal observations while discussing a case study
Criteria for assessment and attribution of the final mark	
Additional information	