General Information	
Academic subject	Advanced food technologies (I.C. Food technologies II)
Degree course	Master programme: Food Science and Technology
ECTS credits	5 ECTS
Compulsory attendance	No
Teaching language	Italian

Subject teacher	Name Surname	Mail address	SSD
	Francesco	francesco.caponio@uniba.it	AGR/15
	Caponio		

ECTS credits details		
Basic teaching activities	4 ECTS Lectures	1 ECTS Laboratory or field classes

Class schedule	
Period	II semester
Course year	First
Type of class	Lectures
	Laboratory or field classes
	Video

Time management		
Hours	125	
In-class study hours	46	
Out-of-class study hours	79	

Academic calendar	
Class begins	March 2 nd , 2020
Class ends	June 12 th , 2020

Syllabus	
Prerequisites/requirements	Knowledge of the virgin olive oils processing technologies
Expected learning outcomes	Knowledge and understanding Knowledge of technologies, including innovative ones, and of their influence on product quality Knowledge of analytical techniques to ensure oil and milk genuineness Applying knowledge and understanding Ability to understand the relations between food composition and shelf-life Ability to apply analytical techniques for food frauds Ability to apply food technologies to ensure efficiency and quality Making informed judgements and choices Correctly advising solutions to ensure high quality standards in foods Correctly evaluating an analytical report Communicating knowledge and understanding Describing correct analytical and technologic approaches to ensure food quality and Capacities to continue learning Updating the knowledge of the relations between technology and food quality.
	The expected learning outcomes, in terms of both knowledge and skills, are provided in Annex A of the Academic Regulations of the

	Science and Technology (expressed through the tors of the qualification)
Effects of storage oxidation and hydrogeness process of storage oxidation and hydrogeness process principal food adulantovative technoclassification and Beer: definition are its substitutes; pasteurization and poxidation and pasteurization a	ineness of the oils. Storage of virgin olive oils. e on the analytical indexes. The influence of rolysis compounds in the evolution of oxidation in eduction technology and fat quality. Fat teresterification and fractionation techniques. It is and fats used in the food industry. Processing mal fats and evaluation of their quality. It is sing of ovine and goat's milk. It is alterations in the dairy industry. It is of winemaking. Sparkling wines: definition, production technologies. In and classification; characteristics of the barley and preparation of malt and must; brewing,
Nerve foods	
 Capella P., Fe dei grassi". Te sunier J. "La dell'unione fa Colagrande C Editori, Pinero Cabras P., Ma Cappelli P., Va e trasformazion Additional reading Oils & fats ma 	artelli A. "Chimica degli alimenti". Piccin, Padova. annucchi V. Chimica degli alimenti. Conservazione one. Zanichelli, Bologna. gs: anual. A. Karleskind Ed. Intercept Ltd, Andover, UK. atrial oil & fat products. Y.H. Hui Ed. John Wiley &
Notes	
Teaching methods Lectures will be privideos with views and laboratory excluded and laboratory excluded and of online platform	d educational supplies will be provided by means is (i.e.: Edmodo, Google Drive etc.).
during the theor classroom and in the Academic Reg and Technology (a Students attending preliminary exam, part of the prograwill be considered The evaluation of the of established cri	s of an oral dissertation on the topics developed retical and theoretical-practical lectures in the the laboratory/production plants, as reported in gulations for the Master Degree in Food Science article 9) and in the study plan (Annex A). In grant the lectures may have a middle-term, consisting of a written test, relative to the first am, which will concur to the final evaluation and I valid for a year. It is preparation of the student occurs on the basis iteria, as detailed in Annex B of the Academic e Master Degree in Food Science and Technology.
Non-Italian stude	ents may be examined in English language, foresaid procedures.

	 Describing innovative technologies and analytical approaches for food frauds Applying knowledge and understanding Describing the relations between food composition and shelf-life applied to the cases reported during lectures Indicating the correct analyses ensuring product genuineness Making informed judgements and choices Expressing reasonable hypotheses about processes able to ensure high quality standards Expressing correct judgements regarding product genuineness Communicating knowledge and understanding Describing the effect of processes on product quality and genuineness Capacities to continue learning Expressing reasonable hypotheses about the evaluation of product genuineness, even through collaborative
Receiving times	approaches From Monday to Friday 8.30 a.m. – 1.30 p.m. and 2.30 p.m. – 5.30
	p.m. previous agreement.