

Consiglio di Interclasse L-26 e LM-70

General information			
Academic subject	Certifications of food quality and safety (I.C. Food quality certification and food		
	law)		
Degree course	Bachelor programme: Food Science and Technologies (L26)		
Academic Year	Third		
European Credit Transfer and Accumulation System (ECTS) 6 ECTS			
Language	Italian		
Academic calendar (starting and	ending date) September 26 th , 2022 – January 20 th , 2023		
Attendance	Not compulsory		

Professor/ Lecturer	
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Department and address	DiSSPA
Virtual headquarters	Microsoft Teams
Tutoring (time and day)	Monday-Friday 10.00 am – 4.00 pm by previous agreement by e-mail

Syllabus	
Learning Objectives	The student will acquire knowledge and skills on the main certifications of food
	quality and safety in order to implement the risk analysis and to appropriately
	handle the quality control tools in the food industry
Course prerequisites	Prerequisites: Chemistry; Knowledge about food quality and causes of food
	alteration
Contents	HACCP method: Concepts of hazard and risk. Principles of HACCP method. General
	procedures. Practical examples and case of study of HACCP systems in different
	food sectors. Structure and set up of HACCP handbooks. Case of study about the
	subject. Check list on topics discussed.
	Evolution of quality control: Classification of certifications in the agri-food sector.
	Series 9000 ISO standards. Revisions of ISO rules and their evolution. Principles and
	structure of ISO standard 9001:2015. Context of Organization. SWOT analysis.
	PDCA cycle. Case of study: Qualification and selection of suppliers. Document
	identification. Case of study: Structure and set up of Quality Management
	handbooks. Concepts of control, non-conformity, corrective action, preventive
	action, audit. Case study about audit procedure. Check list on topics discussed.
	Procedures of certification of company management systems: Audit procedures.
	Major and minor non conformities, recommendations. Audit report. Accreditation
	of certification bodies. Laboratories of quality control. Calibration and metrological
	check. Check list on topics discussed. Product partification: Paris elements of productive technical sheet. Cortifications of
	Product certification: Basic elements of productive technical sheet. Certifications of typicality. Rules of reference and their evolution. Procedure to set up a typicality
	mark and technical sheet, with practical examples related to Apulian foodstuffs.
	De.C.O. marks. Religious-based certifications, Halal and Kosher. Case of study:
	technical sheet set up. Check list on topics discussed.
	Food traceability according to ISO 22005: Concept of tracing and tracking. Systems
	to manage traceability within a single organization and throughout the food chain.
	Compulsory and voluntary rules and their evolution. Case of study: set up of
	Traceability handbooks. Check list on topics discussed.
	Food safety: Series 22000 ISO standards. Procedures of BRC Regulation and IFS
	Standard. Case of study: CCPs and Operative Pre-requisites. Check list on topics
	discussed.
Books and bibliography	C. Peri, V. Lavelli, A. Marjani. Qualità nelle aziende e nelle filiere agro-alimentari.



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	Hoepli Ed., 2004.
	C. Peri. Qualità: concetti e metodi. Franco Angeli Ed., 1998. ISBN 88-204-8919-8.
	S. Ciappellano. Manuale della ristorazione. Casa Editrice Ambrosiana, 2009.
Additional materials	L. Bacci, S. Rabazzi. Il manuale della rintracciabilità. EPC Libri Ed., 2007.
	P. Venturi. Il Manuale Integrato della Qualità. Ed. Il Sole 24 ore, 1998, ISBN 88-
	7187-867-1.
	A. Galgano. La qualità totale. Ed. Il Sole 24 ore, 2000, ISBN 88-7187-307-6.
	Cancellieri, F. Italia, G. Manzone. Procedure gestionali per il laboratorio di analisi
	degli alimenti. Ed. Cavallotto, 1999, ISBN 88-86803-30-3.
	R. Bonsi, C. Galli. Il metodo HACCP. Ed. Il Sole 24 ore, 2000, ISBN 88-324-4023-7.
	A. Clerici, V. Rubino. La nuova disciplina comunitaria sull'igiene delle produzioni
	alimentari. Taro editore, 2005, ISBN 88-87359-33-4.

Work schedule			_	T	
Total	Lectures		Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/Self-study hours	
Hours					
150	40		14	96	
ECTS					
6	5		1		
Teaching strategy Expected learning outcomes		Lectures will be presented through PC assisted tools (PowerPoint, video), discussio of case studies, Seminars held by experts from certification bodies Lecture notes and educational supplies will be provided by means of onlin platforms			
		The expected learning outcomes, in terms of both knowledge and skills, ar provided in Annex A of the Academic Regulations of the Degree in Food Scienc and Technology (expressed through the European Descriptors of the qualification)			
Knowledge and understanding Kn		Knowledge and understanding about main food safety rules and fundamental concepts and methods of quality management in food industry			
		1	o apply risk analysis and to use appropriate tools for quality control and ment in the food industry		
Soft skills		Making informed judgements and choices			
		Ability to apply risk analysis and to use appropriate tools for quality control and			
		management in the food industry			
		Communicating knowledge and understanding			
		Ability to communicate at company level and to third parties the technical choices			
		made to manage quality and safety in the food industry			
		Capacities to continue learning			
		Ability to deepen and update the knowledge regarding the management of quality			
		and safety in the food industry			

Regulations of the Degree in Food Science and Technology (expressed through the European Descriptors of the qualification).

Assessment and feedback	
Methods of assessment	The exam consists of an oral dissertation on the topics developed during the
	theoretical and theoretical-practical lectures in the classroom and in the



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Non-Italian students may be examined in English language, according to the aforesaid procedures.		laboratory production plants, as reported in the Academic Regulations for the Bachelor Degree in Food Science and Technology (article 9) and in the study plan (Annex A). Students attending at the lectures may have a middle-term preliminary exam, consisting of a written test, relative to the first part of the program, which will concur to the final evaluation and will be considered valid for a year. The evaluation of the preparation of the student occurs on the basis of established criteria, as detailed in Annex B of the Academic Regulations for the Bachelor's degree in food science and Technology.
Evaluation criteria Knowledge and understanding Prove to know and having understood the main food safety rules and the fundamental concepts and methods of quality management in food industry Applying knowledge and understanding Prove to be able to apply risk analysis and to use appropriate tools for quality control and management in the food industry Autonomy of judgement Prove to be able to analyze a productive process and to properly program actions and interventions to manage quality and safety in the food industry Communicating knowledge and understanding Prove to be able to communicate at company level and to third parties the technical choices made to manage quality and safety in the food industry Communication skills Prove to be able to communicate at company level and to third parties using the appropriate technical language Capacities to continue learning Prove to be able to deepen and update the knowledge regarding the management of quality and safety in the food industry The evaluation criteria that contribute to the attribution of the final mark will be: knowledge and understanding, the ability to apply knowledge, autonomy of judgment, i.e. the ability to criticize and formulate judgments, communication skills		Non-Italian students may be examined in English language, according to the
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