

## Consiglio di Interclasse L-26 e LM-70

General information				
Academic subject	Sensory Analysis and Consumer Science (I.C. Food Technologies, Sensory			
	Analysis and Packaging)			
Degree course	Food Science and Technology (L26)			
Academic Year	First			
European Credit Transfer and Accumulation Syste (ECTS)		ystem	3 ECTS	
Language	Italian			
Academic calendar (starting and ending		February 27 <sup>th</sup> , 2023 – June 16 <sup>th</sup> , 2023		
date)				
Attendance	No Compulsory			

Professor/ Lecturer	
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Department and address	DiSSPA
Virtual headquarters	Microsoft Teams
Tutoring (time and day)	Monday-Friday 9.00-16.00

Syllabus	
Learning Objectives	The course aims to provide knowledge about the physiology of the senses, the main discriminant, descriptive and hedonistic sensory tests, and instrumental methods such as gas chromatography-olfactometry, electronic nose and electronic tongue in order to acquire skills for the correct sensory evaluation of food products.
Course prerequisites	
Contents	Introductory concepts and setting up a panel of judges  Purposes and applications of sensory analysis. Factors influencing the sensory evaluation of food. Recruitment, selection, and training of judges.  Main sensory analysis tests  Qualitative discriminant tests: pairwise comparison, triangular, duo-trio, two out of five. Sorting tests and measurement scales. Descriptive tests: flavour profile method (FPM) and quantitative descriptive analysis (QDA).  Application of sensory analysis to food  Some applications of descriptive analysis: case studies. Sensory analysis of the main food products. Statistical processing of results and graphic representation.  Instrumental techniques of sensory analysis  Olfactometric techniques, electronic nose, and electronic tongue.  Consumer science tests  Different tests used in consumer science and evaluation in comparative terms of their merits and demerits and how to apply them.
Books and bibliography	Pagliarini E. – Valutazione sensoriale: aspetti teorici, pratici e metodologici. Seconda Edizione. Hoepli editore, Milano, 2021. Cabras P., Tuberoso C.I.G. "Analisi dei prodotti alimentari". Piccin Nuova Libreria S.p.A. Editore, Padova, 2014. Porretta S. – Analisi sensoriale & consumer science. Chiriotti editori, Pinerolo, 2000.
Additional materials	Notes, slides and other bibliographic materials will be furnished during the course

Work schedule
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Total	Lectures	Hands on (Laboratory, working groups)	Out-of-class study hours/Self-study hours
Hours			
<i>75</i>	16	14	45
ECTS			<u>.</u>
3	2	1	
Teaching str	rategy	Course topics will be covered with the aid of Powe exercises will consist of evaluations of basic taste sensory analysis and consumer tests on food produc classroom. Lecture notes and educational supplies wi online platforms.	perception thresholds and ts to be carried out in the
	arning outcomes	The expected learning outcomes, in terms of both provided in Annex A of the Academic Regulations of t and Technology (expressed through the European Description)	he Degree in Food Science riptors of the qualification)
Knowledge a understandi		<ul> <li>Knowledge and understanding of the senso analysis methods.</li> <li>Knowledge and understanding of the consum</li> </ul>	
Applying knunderstandi	owledge and ing on:	<ul> <li>Ability to identify and apply with autonomy the methods in function of the set goals.</li> <li>Ability to identify and apply preference tests</li> </ul>	ne sensory analysis
Soft skills		Making informed judgments and choices     Ability to interpret the results of sensory and aimed to assessment the quality of foods consumers.	
		<ul> <li>Communicating knowledge and understanding         <ul> <li>o Ability to communicate the importance of f point of view.</li> <li>o Ability to use the technical language of cons</li> </ul> </li> <li>Capacities to continue learning         <ul> <li>Ability to update and deepen the knowledge consumer science methods through the studies in the field of food science and technology.</li> </ul> </li> </ul>	sumer science. ge of sensory analysis and

The expected learning outcomes, in terms of both knowledge and skills, are provided in Annex A of the Academic 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 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.  The foreign student's profit test can be done in English in the way described above.



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Evaluation criteria	Knowledge and understanding
	<ul> <li>Describe the physiology of the senses, the procedure for the creation of a sensory panel and the discriminating and descriptive sensory analysis methods</li> </ul>
	<ul> <li>Describe the methods of consumer science for the assessment of consumer preferences.</li> </ul>
	Applying knowledge and understanding
	<ul> <li>Describe the most appropriate sensory analysis tests and consumer science to apply to foods in accordance with the predetermined goals.</li> </ul>
	<ul> <li>Autonomy of judgment</li> <li>Interpret the results of sensory analysis and consumer science to establish the quality and preference of foods.</li> </ul>
	Communicating knowledge and understanding
	<ul> <li>Illustrate the qualitative characteristics of foods through their sensory descriptors.</li> </ul>
	Communication skills
	<ul> <li>The student will be evaluated considering the use of appropriate technical language.</li> </ul>
	Capacities to continue learning
	<ul> <li>Study and propose new sensory methods for the assessment of quality and preference of foods through efficient bibliographic research using the database Scopus and Google Scholar.</li> </ul>
Criteria for assessment and	The evaluation criteria that contribute to the attribution of the final mark will be:
attribution of the final mark	knowledge and understanding, the ability to apply knowledge, autonomy of judgment, i.e. the ability to criticize and formulate judgments, communication skills
Additional information	