

Syllabus

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Titul dl curs	Chimica analitica
Codesc dl curs	40206
Titul suplementar	
SSD	AGRI-06/B
Lingaz	Tedesco
Curs de laurea	Corso di laurea in Scienze agrarie, degli alimenti e dell'ambiente montano
D'autri cursc de laurea (cursc deberieda)	
Dozenc	dott. Raphael Tiziani, Raphael.Tiziani2@unibz.it https://www.unibz.it/en/faculties/agricultural-environmental-food-sciences/academic-staff/person/38727
Assistent didatich	
Semester	Secondo semestre
Ann/Agn de stude	3
Credic universitars	6
Ores de insegnament	40
Ores de laboratore	20
Ores de stude individual	90
Ores de riceviment prevedudes	18
Ressumè di contegnus	<p>The aim of the course is to provide students with an adequate knowledge of general scientific principles and methods as well as specific knowledge related to the subject.</p> <p>The course teaches the basics of qualitative-quantitative analytical and instrumental chemistry. The student should accordingly be able to choose the correct and appropriate method depending on the problem to be solved. The student should also be able - thanks to the knowledge of analytical processes, sample preparation and the most essential analytical methods - to assess the application</p>

	potential of modern analytical procedures.
Argomenc dl curs	<p>The course covers the following topics:</p> <p>Introduction to Analytical Chemistry: Analytical Chemistry and the Analytical Process</p> <p>Statistics and Probability, Procedures in Analytical Chemistry</p> <p>Sample Preparation</p> <p>Fundamentals of Chromatography</p> <p>Liquid Chromatography (LC)</p> <p>Gas Chromatography (GC)</p> <p>Mass Spectrometry (MS)</p> <p>Infrared Spectroscopy (IR)</p> <p>Ultraviolet/Visible Electron Spectroscopy (UV/VIS)</p> <p>Coupling Techniques (LC/MS, GC/MS)</p>
Paroles clef	Analytical Chemistry, Instrumental Analysis, Food Analysis
Prerequisic aconsiés	
Cursc propedeutics	no
Modalité de ensegnament	<p>The course combines lectures and practical exercises.</p> <p>The practical part, including laboratory activities, is explained by the lecturers and/or teaching assistants.</p> <p>PowerPoint presentations are made available via Teams, and additional materials are provided by the lecturer.</p>
Oblianza de frecuencia	nein
Obietifs formatifs y competenzes da arjonje	<p>Knowledge and understanding of an analytical process, sample preparation and the most essential analytical methods.</p> <p>Application of knowledge and understanding through acquired experience during laboratory exercises and the ability to link information from practice (laboratory exercises) with theoretical knowledge.</p>

	<p>Judgement through analytical protocols, laboratory reports.</p> <p>Communication through appropriate technical language and use of specific technical terms.</p> <p>Learning strategies through technical information, knowledge update, selection of scientific literature.</p>
Obietifs formatifs y competenzes da arjonje (informaziuns suplementares)	
Sort de ejam	Oral Exam
Criters de valutazion	During the examination, the clarity of the answers, mastery of the subject-specific language and content, ability to synthesize information, judgment, and the ability to make connections to the topics covered and to independently summarize subjects will be assesse
Bibliografia obligatora	Slides
Bibliografia aconsieda	
Deplù informaziuns	
OSS	Buona salute, Istruzione di qualità, Lotta contro il cambiamento climatico, Energia rinnovabile e accessibile, Innovazione e infrastrutture, Acqua pulita e servizi igenico-sanitari