

Syllabus

Kursbeschreibung

Titel der Lehrveranstaltung	Informatics
Code der Lehrveranstaltung	47310
Zusätzlicher Titel der Lehrveranstaltung	
Wissenschaftlich-disziplinärer Bereich	NN
Sprache	Englisch
Studiengang	Master in Smarte nachhaltige Landwirtschaftssysteme in Berggebieten
Andere Studiengänge (gem. Lehrveranstaltung)	
Dozenten/Dozentinnen	dr. Michele Torresani, Michele.Torresani@unibz.it https://www.unibz.it/en/faculties/agricultural-environmental-food-sciences/academic-staff/person/37414
Wissensch. Mitarbeiter/Mitarbeiterin	
Semester	Zweites Semester
Studienjahr/e	1
KP	1
Vorlesungsstunden	6
Laboratoriumsstunden	4
Stunden für individuelles Studium	15
Vorgesehene Sprechzeiten	3
Inhaltsangabe	da aggiungere
Themen der Lehrveranstaltung	The Informatics course provides students with the fundamental knowledge required to understand the basic principles of data processing and management. In addition to introductory topics in computer science, the course

	<p>covers the informatics components of the Geomatics curriculum, with a particular focus on the use of specialized software for map creation, geographic data management, and the processing of satellite and aerial imagery.</p> <p>Students will acquire practical skills in spatial analysis and remote sensing tools, learning how to effectively manage and represent geospatial data.</p>
Stichwörter	Basic Informatics, Remote Sensing Software, Coding
Empfohlene Voraussetzungen	NA
Propädeutische Lehrveranstaltungen	No
Unterrichtsform	Hands-on exercises during class sessions
Anwesenheitspflicht	No
Spezifische Bildungsziele und erwartete Lernergebnisse	<p>Knowledge and understanding --></p> <ul style="list-style-type: none"> - use the most modern and intelligent technologies and information systems for practical application and for the management and creation of business processes - collaborate with other professionals in the fields of architecture, engineering and natural sciences - work in interdisciplinary, national and international teams <p>Ability to apply knowledge and understanding --></p> <p>Graduates of the Master SAM degree programme have a solid scientific and technical foundation that enables them to tackle and solve complex problems. Thanks to their scientific and technical training in the fields of agriculture, economics and management, graduates are able to develop analyses and plans for the development and management of farms in mountain regions, taking into account their specific characteristics and multifunctionality (ecosystem services). In these specialist areas, graduates are able to coordinate interdisciplinary teams in the agricultural sector.</p> <p>The assessment of success (oral and written exams, seminar reports) and exercises are designed in such a way that graduates must demonstrate that they have mastered the working tools, the methods learned and a critical and independent way of working.</p>

	<p>Autonomy of judgement --></p> <ul style="list-style-type: none"> - planning activities and strategies based on predefined objectives, taking into account timescales and methods <p>Communication skills --></p> <p>Graduates will be able to work professionally in one or more foreign languages. Compulsory and elective courses are taught in English. In addition, some elective courses may be offered in Italian or German. In accordance with unibz's trilingual policy, the unibz Language Centre offers extracurricular courses (levels A1-C1) in Italian and German.</p> <p>Graduates will be able to communicate fluently with other professional groups with whom they work and will be able to participate in European projects with foreign partners thanks to the international orientation of the Master's programme. Written and oral communication skills are promoted in seminars, excursions, exercises and teaching activities, which include the preparation of reports and written documents and their oral presentation in English and, where applicable, in Italian and German in elective subjects. The acquisition and assessment/verification of the above communication skills also takes place through the writing of the final thesis and its discussion in English. The master's degree programme also promotes the acquisition of additional language skills in German and Italian. This should enable graduates to successfully enter the international job market (e.g. Austria-Switzerland-Italy-Germany).</p> <p>Learning skills --></p> <p>Graduates will be able to manage complex projects thanks to the specialist knowledge acquired during their studies. They will be able to continuously expand the specialist knowledge acquired during their studies and keep it up to date. They will learn to use the most modern methods to be able to competently carry out analysis, project planning and management measures in their professional lives. Graduates will be able to use various IT systems to further their cultural and professional development. They will also be able to choose the methods and training paths best suited to their cultural and professional development. Graduates will be able to manage complex projects thanks to the specialist</p>
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	<p>knowledge acquired during their studies. They will be able to continuously expand the specialist knowledge acquired during their studies and keep it up to date. They will learn to use the most modern methods to be able to competently carry out analysis, project planning and management measures in their professional lives. Graduates will be able to use various IT systems to further their cultural and professional development. They will also be able to choose the most suitable methods and training paths for their cultural and professional development.</p> <p>Learning skills are encouraged throughout the degree programme. Particular attention is paid to individual study, especially in the completion of group work on the proposed topics. These skills are enhanced during compulsory classes, which include group work, and subsequently in the preparation of the final thesis. Learning progress is assessed regularly during the courses and during the writing of the final thesis. In particular, this practice-oriented training involves working in small groups (3-5 students) on a joint project (e.g., a plan for the development of farms in mountain areas) from the initial stages (development of objectives and measures, collection of available data) to cooperation with various stakeholders (e.g., public administration, mountain agriculture advisory centre, farmers' association), which also includes communication activities for agriculture and society. The projects are carried out under the supervision of two or more teachers, with an exchange between students and private companies and/or the public authorities concerned.</p> <p>Learning ability is assessed through continuous assessment during the learning units and in the preparation of the final thesis.</p>
Spezifisches Bildungsziel und erwartete Lernergebnisse (zusätzliche Informationen)	
Art der Prüfung	Students will present projects based on the theoretical concepts introduced during the lectures
Bewertungskriterien	<p>Quality of the project implementation (accuracy, completeness, and technical soundness)</p> <p>Innovation and originality of the proposed project</p> <p>Consistency and coherence of the project with the topics covered during the course</p>

Pflichtliteratur	NA
Weiterführende Literatur	
Weitere Informationen	
Ziele für nachhaltige Entwicklung (SDGs)	Keine Armut, Leben an Land, Maßnahmen zum Klimaschutz, Gesundheit und Wohlergehen