Syllabus
Course description

Course title	**Applied Informatics**
Course code	40425
Scientific sector	
Degree	L-GASTR – Bachelor in Enogastronomy in Mountain Areas
Semester	1
Year	I
Academic year	2022/23
Credits	3
Modular	No

Total lecturing hours	20
Total exercise hours	10
Attendance	Recommended
Prerequisites	None
Lecturer	Anton Dignös (dignoes@inf.unibz.it)

Specific educational objectives	The course aims at teaching the basics concepts of informatics and providing students with a scientific approach for problem solving. The course has the following objectives: (a) provide students with the basic notions of computers (software and hardware), application programs, networks and internet; (b) provide them with the necessary knowledge to manipulate and analyze data using spreadsheets; (c) provide them with a basic understanding of algorithmically thinking and programming.

Learning outcomes	Knowledge and understanding: - Know the basic principles of hardware and software in a computer system, and the internet. - Know the basic components of data manipulation and analysis using spreadsheets. - Know the basic components and instructions of a computer program. Applying knowledge and understanding: - Be able to independently use spreadsheets to solve data manipulation and analysis problems. - Be able to understand and write basic instructions of a computer program. Making judgments: - Be able to collect useful data and to judge a computer configuration.

	Communication skills: • Be able to work and communicate in a team Learning skills: • Ability to autonomously extend the knowledge acquired during the study course.
List of topics covered	• Computer fundamentals: Introduction, information and data, hardware, operating systems, application programs, spreadsheets. • Programming: Concept of algorithms, programming languages, programming. • Networking: Basic concepts of networks and internet, WWW.

Assessment	The assessment is based on a written final exam and assignments performed in teams.
Assessment language	German
Evaluation criteria and criteria for awarding marks	The assessment is based on • Assignments (30%) • Written final exam (70%) To pass the course, both parts are mandatory with a combined pass grade, and the written exam has to be passed. In the assignments students have to solve exercises that are assessed according to correctness and clarity. In the written final exam students have to answer questions on topics taught in the course. The written final exam is assessed according to correctness of answers.

Required readings	Lecture notes
Supplementary readings	Heinz Peter Gumm und Manfred Sommer: *"Einführung in die Informatik"*. 10., vollständig überarb. Aufl. 2012. De Gruyter Studium. Additional material will be handed out during the lecture.