Freie Universität Bozen
Libera Università di Bolzano
Università Liedia de Bulsan

Syllabus
Course description

Course title	Informatics for Big Data
Course code	44707
Scientific sector	**---**
Degree	Food Sciences for Innovation and Authenticity
Semester	First
Year	First
Academic year	2018/19
Credits	1
Modular	No

Total lecturing hours	10
Total lab hours	-
Total exercise hours	-
Attendance	Strongly recommended
Prerequisites	Students should have some basic mathematical foundation (some basic knowledge on statistical analysis and the use of spreadsheet is helpful, although not strictly needed).
Course page	**https://ole.unibz.it/** **http://www.inf.unibz.it/dis/teaching/BigData/**

Specific educational objectives	The course gives a general overview of techniques for analyzing large data sets. In particular, students will learn how to describe and analyze large datasets by developing simple spreadsheets programs and scripts.

Lecturer	Matteo Scampicchio, matteo.scampicchio@unibz.it
Scientific sector of the lecturer	AGR/15
Teaching language	English
Office hours	3
List of topics covered	• Basic use of Microsoft Excel • Basic use of R • Descriptive statistic
Teaching format	Frontal lectures

Learning outcomes	Knowledge and understanding • know and understand methods for analyzing large data sets Applying knowledge and understanding • be able to develop scripts and spreadsheets for summarizing the information contained in large datasets.

	Making judgments • be able to judge pros and cons of different data analysis frameworks

Assessment	Oral interview about the projects developed during the lectures
Assessment language	English
Evaluation criteria and criteria for awarding marks	Clarity of answers, ability to comment scripts, basic skills in developing charts and tables, ability to summarize large data sets.