Syllabus
Course description

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

Total lecturing hours	10
Total lab hours	-
Total exercise hours	-
Attendance	Strongly recommended
Prerequisites	None
Course page	**https://ole.unibz.it/** **http://www.inf.unibz.it/dis/teaching/BigData/**

Specific educational objectives	The course gives a socio-technical overview of big data with a specific emphasis on their use in research. Starting from how research on big data have been described in computer science literature and the media, the course will focus on basic issues of trust and privacy (at the core of data collection); validity and ethics (at the core of data analysis); attachment and participation (at the core of citizen science). Students attending this course will reflect on the practical applications of big data in real life scenarios (from health-care success to the Cambridge Analytica Scandal). In parallel, they will develop critical-thinking and creativity skills while engaging in hands-on-activity.

Module 1	
Lecturer	Antonella De Angeli
Scientific sector of the lecturer	INF/01
Teaching language	English
Office hours	Thursday 13-15
List of topics covered	- Introduction to big data - Commodification of data - Big data and health informatics - Big data and social media - Big data and experimental psychology
Teaching format	Frontal lectures, design workshops, service learning

Learning outcomes	Knowledge and understanding: • D1.2 - Understanding of the skills, tools and techniques required for an effective use of data science Applying knowledge and understanding: • D2.9 - Design, application and evaluation of technologies and tools for human-machine interaction, data exploration and data visualization Making judgments • D3.2 - Ability to autonomously select the documentation (in the form of books, web, magazines, etc.) needed to keep up to date in a given sector Communication skills • D4.1 - Ability to use English at an advanced level with particular reference to disciplinary terminology • D4.2 - Ability to present one's work in a clear and comprehensible way in front of an audience, including non-specialists • D4.5 - Ability to interact and collaborate in the implementation of a project or research with peers and experts

Assessment	Individual oral exam: the student will give a 10 minutes presentation on an assigned topic followed by question answering to test knowledge acquisition
Assessment language	English
Evaluation criteria and criteria for awarding marks	clarity of answers, mastery of language (also with respect to teaching language), ability to summarize, evaluate, and establish relationships between topics;

Required readings	Selected papers will be suggested after each lecture.