Syllabus

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

<table>
<thead>
<tr>
<th>Total lecturing hours</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total lab hours</td>
<td>-</td>
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<tr>
<td>Total exercise hours</td>
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Attendance: Strongly recommended

Prerequisites: Students should have a basic mathematical foundation (some basic knowledge in computer science and/or programming is helpful, but not strictly needed)

Course page: [https://ole.unibz.it/](https://ole.unibz.it/)  
[http://www.inf.unibz.it/dis/teaching/BigData/](http://www.inf.unibz.it/dis/teaching/BigData/)

Specific educational objectives: The course gives a general overview of models, techniques, and frameworks used for analyzing large data sets. Students attending this course will learn about these models, techniques, and frameworks. Additionally, one of the tools will be covered in more detail as a case study.

Module 1

Lecturer: Sven Helmer, POS 2.16, shelmer@inf.unibz.it, 016190,  
[http://www.inf.unibz.it/~shelmer/](http://www.inf.unibz.it/~shelmer/)

Scientific sector of the lecturer: ING-INF/05
Teaching language: English
Office hours: TBA, total hours: 3

List of topics covered:
- Models, techniques, and frameworks for analyzing large amounts of data
- Closer look at one specific tool

Teaching format: Frontal lectures

Learning outcomes: The learning outcomes need to refer to the Dublin Descriptors:
- Knowledge and understanding
- know and understand principles of systems and methods for analyzing large amounts of data

Applying knowledge and understanding
- be able to apply certain steps of analyzing data with a specific tool

Making judgments
- be able to have a rough idea on how to judge the capabilities of data analysis frameworks

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<thead>
<tr>
<th>Assessment</th>
<th>Written exam with verification questions and questions to test knowledge application skills</th>
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<tbody>
<tr>
<td>Assessment language</td>
<td>English</td>
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<tr>
<td>Evaluation criteria and criteria for awarding marks</td>
<td>clarity of answers, ability to recall principles and methods used in data analysis frameworks, basic skills in applying knowledge for using such a framework</td>
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