Course Specifications
Valid as from the academic year 2016-2017

Course size (nominal values; actual values may depend on programme)

<table>
<thead>
<tr>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
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<tbody>
<tr>
<td>18.0</td>
<td>540 h</td>
<td>180.0 h</td>
</tr>
</tbody>
</table>

Course offerings in academic year 2019-2020

A (year)   Dutch

Lecturers in academic year 2019-2020

Haesaert, Geert        LA21 lecturer-in-charge

Offered in the following programmes in 2019-2020

| Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture (main subject Horticulture) | 18 | A |
| Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture (main subject Plant and Animal Production) | 18 | A |
| Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture (main subject Tropical Plant Production) | 18 | A |

Teaching languages

Dutch

Keywords

Scientific research techniques, scientific literature, scientific manuscript

Position of the course

With the successful defending of the Master's Dissertation, the student shows that he/she obtained the objectives and attainment targets of the programme Master of Bioscience Engineering Technology. He/she has mastered the skills to conduct scientific research and the specific professional competences necessary for the use of scientific knowledge at the level of a starting employee.

Contents

The Master's Dissertation is the result of an extensive literature study and the scientific research the student has conducted. This research can be performed in our own laboratories or in collaboration with the industry (after e.g. performing an internship) or in a scientific institution.

The literature study and the research explore a specific problem and propose a solution. The results of the literature study and the research are written down in a thesis. This manuscript includes at least a table of contents, abstract, introduction, literature review, materials and methods, results and a critical discussion of the results obtained. The conclusions are if possible supported by statistical analysis. In the literature list, reference is made to the international literature in the specific research domain. The thesis is normally written in Dutch. The thesis and in particular the results of the research are presented orally and defended before a jury.

Initial competences

Sufficiently acquired the final competences of the Bachelor of Bioscience Engineering Technology or of the linking course to Master of Bioscience Engineering Technology

Final competences

1. Be able to analyze a problem correctly and to formulate clear research questions
2. Be able to look up, process and synthesize scientific literature to a critical chapter
3. Be able to set up an appropriate methodology and to implement new techniques
4. Be able to collect the data independently and carefully
5. Be able to analyze the results or the results of others after a thorough statistical analysis

(Approved) 1
6 Be able to formulate a relevant decision
7 Be able to write down the results of the literature study and the research and to write down a synthesis of the master thesis in a clear and structured way
8 Be able to work independently and to show initiative and motivation
9 Be able to communicate in a proper manner about the research and to follow up the feedback
10 Be able to present and defend the results orally

Conditions for credit contract
This course unit cannot be taken via a credit contract

Conditions for exam contract
This course unit cannot be taken via an exam contract

Teaching methods
Master's dissertation

Learning materials and price

References

Course content-related study coaching
The master’s dissertation is actively coached by the promoter(s) and tutor(s)

Evaluation methods
end-of-term evaluation and continuous assessment

Examination methods in case of periodic evaluation during the first examination period
Oral examination, assignment

Examination methods in case of periodic evaluation during the second examination period
Oral examination, assignment

Examination methods in case of permanent evaluation
Participation, job performance assessment

Possibilities of retake in case of permanent evaluation
examination during the second examination period is possible

Calculation of the examination mark
- Evaluation during the research: 30%
- Evaluation scientific value and quality: 50%
- Evaluation oral defense and discussion: 10%
- Presentation: 10%