Course Specifications
Valid as from the academic year 2016-2017

Plant and Crop Sciences 2 (I700156)

Course

Valid as from the academic year 2016-2017

Course offerings and teaching methods in academic year 2017-2018

<table>
<thead>
<tr>
<th>Course</th>
<th>Language</th>
<th>Fieldwork</th>
<th>Group Work</th>
<th>Excursion</th>
<th>Lecture</th>
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<tbody>
<tr>
<td>A (semester 2)</td>
<td>Dutch</td>
<td>4.0 h</td>
<td>2.0 h</td>
<td>12.0 h</td>
<td>24.0 h</td>
</tr>
</tbody>
</table>

Lecturers in academic year 2017-2018

- Haesaert, Geert (LA21 lecturer-in-charge)
- Werbrouck, Stefaan (LA21 co-lecturer)

Offered in the following programmes in 2017-2018

<table>
<thead>
<tr>
<th>Programme</th>
<th>Credits</th>
<th>Offering</th>
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<tr>
<td>Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture (main subject Horticulture)</td>
<td>3</td>
<td>A</td>
</tr>
<tr>
<td>Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture (main subject Plant and Animal Production)</td>
<td>3</td>
<td>A</td>
</tr>
<tr>
<td>Master of Science in Bioscience Engineering Technology: Agriculture and Horticulture (main subject Tropical Plant Production)</td>
<td>3</td>
<td>A</td>
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Teaching languages

Dutch

Keywords

Outdoors vegetables, crop husbandry, potato

Position of the course

Plant- and crop sciences I and II are two key courses for plant production. The crops which are discussed cover nearly 95% of the total agricultural area in Belgium. Knowledge about the crop husbandry of these crops are very essential for the master in biosciences: agriculture and horticulture. For each crop the taxonomy, botanical characteristics, husbandry and specific crop protection measures are discussed.

Contents

- Plant- and crop science II:
  1. Tuber crop
     - Taxonomy, botanical characteristics, crop husbandry (crop rotation, fertilisation, varieties, quality aspects, e.g.) and crop protection of potato as case study
  2. Vegetable production in open field
     - Taxonomy, botanical characteristics, crop husbandry (crop rotation, fertilisation, varieties, quality aspects, e.g.) and crop protection of pea, phaseolus bean, cabbage, leek, onion, celery, carrots, spinach and chicory as case studies
  3. During a foreign study trip student get the opportunity to develop an international opinion about the topics of this cause.

Initial competences

This course built on some competences of plant morphology and anatomy of plants, plant physiology, phyto technique and ecophysiology, crop protections, plant breeding, soil management and plant genetics.

Final competences

1. To be able to develop a crop husbandry system of crops mentioned above.
2 To be able to assist growers and to solve crop management problems
3 To design a report and presentation on crop topics as harvest, quality analysis, varietal performance.
4 To be able to develop an international opinion on crop production.
5 To be able to manage the complexity of a crop production system.

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

This course unit cannot be taken via an exam contract

Teaching methods

Excursion, group work, lecture, fieldwork

Extra information on the teaching methods

Course is illustrated with up-to-date slides
Students must do observation on the experimental farm
Excursions to vegetables and potato producing and processing facilities

Learning materials and price

Syllabus

References

Scientific literature, research results, trade journals, specialized websites

Course content-related study coaching

Possibilities to ask questions on a regular base
Study progress tests during practicum

Evaluation methods

end-of-term evaluation and continuous assessment

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

Oral examination

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

Oral examination

Examination methods in case of permanent evaluation

Written examination, report

Possibilities of retake in case of permanent evaluation

examination during the second examination period is possible

Extra information on the examination methods

Theory: oral examination with open questions
Exercises: permanent evaluation, reports and test (can be done again in second examination period). 50 % on reports/presentations and 50 % on test.

Calculation of the examination mark

Theory: 75 %
Exercises: 25%

(Approved)