Course Specifications
Valid as from the academic year 2016-2017

Course

Lecturers in academic year 2018-2019

Haesaert, Geert
LA21
lecturer-in-charge

Werbrouck, Stefaan
LA21
co-lecturer

Course offerings and teaching methods in academic year 2018-2019

A (semester 2)
Dutch
excursion 12.0 h
fieldwork 4.0 h
group work 2.0 h
lecture 24.0 h

Offered in the following programmes in 2018-2019

Master of Science in Bioscience Engineering Technology:
Agriculture and Horticulture (main subject Horticulture) 3 A

Master of Science in Bioscience Engineering Technology:
Agriculture and Horticulture (main subject Plant and Animal Production) 3 A

Master of Science in Bioscience Engineering Technology:
Agriculture and Horticulture (main subject Tropical Plant Production) 3 A

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 course.

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.

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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.

Conditions for exam contract
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)