Course Specifications

Valid as from the academic year 2019-2020

Course size

<table>
<thead>
<tr>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
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<tbody>
<tr>
<td>5.0</td>
<td>150 h</td>
<td>50.0 h</td>
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Course offerings and teaching methods in academic year 2019-2020

A (semester 1) Dutch lecture 50.0 h

Lecturers in academic year 2019-2020

- Höfte, Monica LA21 lecturer-in-charge
- De Cauwer, Benny LA21 co-lecturer
- De Clercq, Patrick LA21 co-lecturer
- Spanoghe, Pieter LA21 co-lecturer

Offered in the following programmes in 2019-2020 crdts offering

Bachelor of Science in Bioscience Engineering (main subject Agricultural Sciences) 5 A

Teaching languages

Dutch

Keywords

Crop protection, entomology, phytopathology, herbology, phytopharmacy

Position of the course

The aim is to provide a general introduction on crop protection. The lecturers involved present an overview of the economic importance and control of crop pests, diseases and weeds. A separate part is dedicated to phytopharmacy (pesticides). Attention is given to the historic backgrounds, current challenges, future trends and ethical aspects of crop protection.

Contents

- Overview of animal pests (nematodes, mites, insects, vertebrates) in plant production and human environment and their control (host plant resistance, biological, chemical, ecological, ethological, physical and integrated control)
- Overview of the main plant pathogens (viruses, bacteria, fungi,...), their interactions with the plant and their control (host plant resistance, biological, chemical, ecological and integrated control)
- Overview of the main weeds and their control (chemical, biological, mechanical, physical, ecological and integrated control)
- Overview and rational use of pesticides (phytopharmacy)

Initial competences

Good knowledge of Botany, Zoology and Microbiology

Final competences

1. Ability to recognize the most important pests, diseases and weeds in agriculture and horticulture
2. Knowledge about the biology and ecology of the most important pests, diseases and weeds
3. Knowledge about current control strategies for pests, diseases and weeds

Conditions for credit contract

(Approved)
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
- Guided self-study, demonstration, lecture

Extra information on the teaching methods
- Theory: oral lectures
- Exercises: demonstrations

Learning materials and price
- A syllabus (handouts) is available for each part, provided by the respective lecturers.
- Estimated cost: 20 EUR

References

Course content-related study coaching
- Lecturers and assistants are available for further explanation if necessary

Evaluation methods
- end-of-term evaluation and continuous assessment

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

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

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
- not applicable

Extra information on the examination methods
- Theory: period aligned evaluation
- Exercises: period aligned evaluation
- Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.
- Theory: written (closed book) examination, with option for oral evaluation
- Exercises: written (closed book) examination, with option for oral evaluation

Calculation of the examination mark
- The partims given by the different lecturers account for the same proportion of the total score (25%). In order to succeed for the course, the student should pass on all parts.

- Theory: period aligned evaluation
- Exercises: period aligned evaluation