Course Specifications
Valid as from the academic year 2017-2018

Course size
Credits 5.0
Study time 135 h
Contact hrs 60.0 h

Course offerings and teaching methods in academic year 2018-2019
A (semester 1) Dutch
guided self-study 12.5 h
demonstration 23.75 h
lecture 23.75 h

Lecturers in academic year 2018-2019
De Cauwer, Benny LA21 lecturer-in-charge
De Clercq, Patrick LA21 co-lecturer
Höfte, Monica LA21 co-lecturer
Spanoghe, Pieter LA21 co-lecturer

Offered in the following programmes in 2018-2019
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

(Approved)
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
  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
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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

(Approved)