

Nematology Didactics & Capacity Building (C004447)

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

Credits 4.0 **Study time 120 h**

Course offerings and teaching methods in academic year 2024-2025

A (semester 1) English Gent practical

Lecturers in academic year 2024-2025

Cortada-Gonzalez, Laura	WE11	lecturer-in-charge
Coyne, Daniel	WE11	co-lecturer

Offered in the following programmes in 2024-2025

International Master of Science in Agro- and Environmental Nematology	crdts	offering
	4	A

Teaching languages

English

Keywords

Peer tutoring, teaching, nematode basics, *Nematology Digital Learning Platform*, capacity building, didactic methods, educational movies, presentation skills

Position of the course

This course is part of the Kenya track – International Capacity Building & Sustainability of the International Master of Science in Agro- and Environmental Nematology. In this course the students will receive training in nematology teaching. They will participate in the practical part of a one week *Nematology Crash Course* where they assist as lecturing assistants in training of local and regional (master) students.

Contents

- Experience how nematologist are trained in the Nematology Crash Course.
- Assist as lecturing assistants and train local students on the topic below:
- Demonstrate how to take samples and tutor the local students how to process the samples, how to recognize the most important plant parasitic nematodes as well as teach them how to recognize the feeding type of a nematode
- Demonstrate and teach to the local students the basics of how to identify a nematode using molecular techniques
- Demonstrate how to culture plant parasitic nematodes and entomopathogenic nematodes
- Transfer knowledge of first year.
- Field work together with local students on all different aspects of an actual nematode problem in Kenya.
- Assess the knowledge of the local students before and after the crash course by a online questionair and visualize their learning curve
- Use and demonstrate the *Nematology Digital Learning Platform*.
- Introduction to basic teaching methods and software for making educational movies, weblectures, online questionnaires and voting systems.

Initial competences

Thorough knowledge of nematology. The student should have followed the first master of the International Master of Science in Agro- and Environmental Nematology.

Final competences

- 1 Able to transfer acquired knowledge to trainees.

- 2 Apply theoretical knowledge in field situations.
- 3 Provide solutions for nematological problems in the tropics.
- 4 Present the results of field data in layman terms.
- 5 Able to co-supervise initial stages of research activities with local students.

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

Group work, Practical, Independent work

Study material

Type: Handbook

Name: Practical plant nematology: a field and laboratory guide

Indicative price: Free or paid by faculty

Optional: no

Author : Coyne, Nicol & Claudius-Cole

References

Practical plant nematology: a field and laboratory guide by Coyne, Nicol & Claudius-Cole

Course content-related study coaching

Questions about the lectures can be discussed during the courses and practicals and/or after an appointment. All course notes of the lectures and practicals can be found within Ufora.

Assessment moments

continuous assessment

Examination methods in case of periodic assessment during the first examination period**Examination methods in case of periodic assessment during the second examination period****Examination methods in case of permanent assessment**

Skills test, Participation, Assignment

Possibilities of retake in case of permanent assessment

not applicable

Calculation of the examination mark

25% assignments, 25% report, 25% participation, 25% skills test