

## Plant Nutrition and Plant Health (I002492)

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

**Credits** 3.0 **Study time** 90 h

**Course offerings in academic year 2023-2024**

A (semester 1) English Gent

**Lecturers in academic year 2023-2024**

Dittert, Klaus

GOTTIN01 lecturer-in-charge

Pawelzik, Elke

GOTTIN01 co-lecturer

**Offered in the following programmes in 2023-2024**

[International Master of Science in Soils and Global Change \(main subject Soil Biogeochemistry and Global Change\)](#)

crdts	offering
3	A

**Teaching languages**

English

**Keywords**

**Position of the course**

**Contents**

Nutrient uptake and transport in the plant; function of different nutrients in the plant especially with respect to plant health; mechanisms to increase nutrient efficiency and availability; characteristics of plant health, relation between plant nutrition and plant health; effect of nutrient imbalances on plant metabolism and production of plant harvest products and processing quality.

**Initial competences**

**Final competences**

- 1 Understanding of the relations between plant nutrition and plant health and their significance in the value-added chain.
- 2 Students will be able to present the presented topics in their context: development of nutritional and processing quality in different crop plants; quality requirements and ways of realization by crop production methods.

**Conditions for credit contract**

This course unit cannot be taken via a credit contract

**Conditions for exam contract**

This course unit cannot be taken via an exam contract

**Teaching methods**

Lecture

**Learning materials and price**

**References**

**Course content-related study coaching**

**Assessment moments**

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

Oral assessment, Written assessment

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

Oral assessment, Written assessment

**Examination methods in case of permanent assessment**

**Possibilities of retake in case of permanent assessment**

examination during the second examination period is possible

**Calculation of the examination mark**