

Tropical Crop Production (I002731)

Cursusomvang *(nominale waarden; effectieve waarden kunnen verschillen per opleiding)*

Studiepunten 4.0 **Studietijd 120 u**

Aanbodsessies in academiejaar 2023-2024

A (semester 2) Engels Gent

Lesgevers in academiejaar 2023-2024

de la Pena, Eduardo LA21 Verantwoordelijk lesgever

Aangeboden in onderstaande opleidingen in 2023-2024

	stptn	aanbodssessie
Master of Science in de biowetenschappen: land- en tuinbouwkunde (afstudeerrichting tuinbouwkunde)	4	A
Master of Science in de bio-ingenieurswetenschappen: bos- en natuurbeheer	4	A
Master of Science in de bio-ingenieurswetenschappen: landbouwkunde	4	A
Uitwisselingsprogramma bio-ingenieurswetenschappen: land- en bosbeheer (niveau master-na-bachelor)	4	A
Uitwisselingsprogramma bio-ingenieurswetenschappen: landbouwkunde (niveau master-na-bachelor)	4	A

Onderwijstalen

Engels

Trefwoorden

Plant production, tropical crops, farming systems, food crops, non-food crops

Situering

Tropical crop production is of immense importance on a global scale as some crops are major exports of many countries in the Global South. Also, tropical crops play a significant role in global food security, providing a wide range of essential nutrients and food products and contributing to the livelihoods of millions of people, including smallholder farmers and laborers. Last but not least, tropical crops have significant environmental and cultural importance, shaping landscapes, biodiversity, and cultural practices worldwide.

Tropical Crop Production will provide students with the fundamentals of major tropical crops and their production systems. The course covers topics such as crop physiology, breeding, agronomy and management practices. Emphasis is placed on the unique challenges of tropical crop production, including soil fertility, pest and disease management, and climatic factors. Students will also learn about the social and environmental challenges in these types of systems. Practical sessions allow getting acquainted with specific techniques in tropical plant (crop) propagation.

Inhoud

Tropical plant production is presented through its farming systems. The course covers lectures on the biology, physiology, and agronomy of crops commonly grown in tropical regions. Selected examples are discussed and specific production methods, constraints and problems, and solutions are addressed. Food (millet, sorghum, soya, groundnut, yam, cassava,...), non-food crops (rubber, cacao, coffee, tea, cotton,...), and fruit crops (*Citrus* spp., mango, papaya, avocado) in different ecologies are presented and discussed. The course also covers the environmental factors that affect crop growth and the techniques used to manage crops. An important part of the course is related to addressing sustainability issues.

Begincompetenties

There are no specific requirements.

Eindcompetenties

- 1 The student has insight in tropical crop problems and techniques.
- 2 Describe key crops and cropping systems in the tropics
- 3 Recognize farming systems and cropping practices in different geographical contexts in tropical and subtropical areas

Creditcontractvoorwaarde

Toelating tot dit opleidingsonderdeel via creditcontract is mogelijk mits gunstige beoordeling van de competenties

Examencontractvoorwaarde

Dit opleidingsonderdeel kan niet via examencontract gevolgd worden

Didactische werkvormen

Hoorcollege, Practicum, Zelfstandig werk

Leermateriaal

Selection of scientific articles, reviews, book chapters, etc

Referenties

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Vakinhoudelijke studiebegeleiding

Permanent through Ufora. Personal contacts with lecturer and assistant.

Evaluatiemomenten

periodegebonden en niet-periodegebonden evaluatie

Evaluatievormen bij periodegebonden evaluatie in de eerste examenperiode

Schriftelijke evaluatie met open vragen, Werkstuk

Evaluatievormen bij periodegebonden evaluatie in de tweede examenperiode

Schriftelijke evaluatie met open vragen, Werkstuk

Evaluatievormen bij niet-periodegebonden evaluatie

Werkstuk

Tweede examenkans in geval van niet-periodegebonden evaluatie

Examen in de tweede examenperiode is mogelijk

Eindscoreberekening

Final exam with open questions 80%; Assignment 20%