

Georg-August-Universität Göttingen Universität Kassel/Witzenhausen Module M.SIA.P08: Pests and diseases of tropical crops		6 C 6 WLH
Learning outcome, core skills: Students should become familiar with the causes of diseases (abiotic & biotic diseases), with the taxonomy of disease agents (bacteria, fungi, virus) and insect pests, with basics of integrated pest management (approaches, economic threshold, epidemiology), and biological, cultural control (cultivars, crop rotation, planting term, manual control), and chemical control options (toxicology, fungicides, insecticides) of the main crops in subtropical and tropical regions		Workload: Attendance time: 84 h Self-study time: 96 h
Course: Pests and diseases of tropical crops (Lecture, Seminar) <i>Contents:</i> Pests and diseases of selected crops are treated together for each crop including approaches to integrated control. The following crops will be presented: rice, maize, cotton, cocoa, coffee, cassava, phaseolus beans, bananas, and others. For each crop, a short introduction to botanical and agronomic features (as far as they concern disease or pest control) is given, together with an overview of the main diseases world-wide. The economic importance of diseases and pests in different geographical areas is discussed. The most important diseases and pests of die crop are treated in detail and die possibilities for integrated control are discussed. Short introductions (reviews) on basic subjects of plant protection are given, these include: causes of diseases (abiotic & biotic diseases), taxonomy of disease agents (bacteria, fungi, viruses) and insect pests, integrated pest management (approaches, economic threshold), biological control (diseases, pests), cultural control (varieties, crop rotation, planting term, manual control), and chemical control (toxicology, fungicides, insecticides). Students will give seminars on related topics. Vorlesungsbasierte Literatur		6 WLH
Examination: Written exam (60 minutes, 67%) and presentation (ca. 20 minutes, 33%) M.SIA.P08.Mp: Pests and diseases of tropical crops Examination prerequisites: Seminar speech Examination requirements: Kenntnisse der wichtigsten Pests und Krankheiten von tropischen und subtropischen Kulturen; chemische und biologische Steuerungsoptionen, Pflanzenschutz Ansätze und nachhaltige Anbausysteme für tropische Kulturen.		6 C
Admission requirements: none	Recommended previous knowledge: Basic knowledge (B.Sc. level) in agricultural entomology, plant diseases and plant production	
Language: English	Person responsible for module: Prof. Dr. Stefan Vidal	

Course frequency: each summer semester; Göttingen	Duration: 1 semester[s]
Number of repeat examinations permitted: twice	Recommended semester:
Maximum number of students: 30	
Additional notes and regulations: Literature: Lecture based materials; details provided during lectures.	