

### P08 Pests and Diseases of Tropical Crops

<b>Module</b>	<b>Pests and Diseases of Tropical Crops</b>							
<b>Code</b>	<b>P08</b>							
<b>Coordinator</b>	<b>Prof. Dr. S. Vidal</b>							
Language	English							
Stud. Workload	180h (60h contact time)							
Credits	6 ECTS							
Frequency (WS/SS)	SS							
Contents	Students should become familiar with the <ul style="list-style-type: none"> <li>- causes of diseases (abiotic &amp; biotic diseases)</li> <li>- taxonomy of disease agents (bacteria, fungi, virus) and insect pests</li> <li>- basics of integrated pest management (approaches, economic threshold, epidemiology)</li> <li>- biological control (diseases, pests)</li> <li>- cultural control (cultivars, crop rotation, planting term, manual control)</li> <li>- chemical control (toxicology, fungicides, insecticides)</li> </ul> of the main crops in subtropical and tropical regions							
Objectives	Gain an understanding of potential control options in tropical and subtropical crops via an integrated crop management approach.							
Literature	Lecture based materials; details provided during lectures.							
Study system usability	Economy	Organic			Tropical			
	-	E			M			
Entrance requirements	Basic knowledge (B.Sc. level) in agricultural entomology, plant diseases and plant production							
Instruction type	Lecture	Seminar	Excursion	Practice	Tutorial	Project		
Duration [contact h]	45	15						
Examination type	Oral test	Written test	Homework	Sem. speech	Protocol	Work report	Proj. report	Proj. pres.
		x		x				
Grade composition	70% written test, 30% seminar speech							

### P09 Biological Control and Biodiversity

<b>Module</b>	<b>Biological Control and Biodiversity</b>							
<b>Code</b>	<b>P09</b>							
<b>Coordinator</b>	<b>Prof. Dr. S. Vidal</b>							
Language	English							
Stud. Workload	180h (60h contact time)							
Credits	6 ECTS							
Frequency (WS/SS)	WS							
Instructor	Prof. Dr. S. Vidal, Prof. Dr. T. Tschardtke							
Contents	<ul style="list-style-type: none"> <li>- Theoretical foundations of biological control</li> <li>- Natural enemy behaviour and biological control success</li> <li>- Biodiversity and ecosystem services in agroecosystems</li> <li>- Practical examples of biological control projects</li> <li>- Plant-herbivore-predator-interactions</li> <li>- Principles of population dynamics</li> <li>- Biological weed control</li> </ul>							
Objectives	Gain an understanding of what biological control is and how it can be used effectively as part of an IPM system and how biodiversity contributes to control of pest populations and other ecosystem services.							
Literature	Lecture based materials; details provided during lectures.							
Study system usability	Economy	Organic			Tropical			
	-	M			E			
Entrance requirements	Basic knowledge (B.Sc. level) in entomology, ecology and plant production							
Instruction type	Lecture	Seminar	Excursion	Practice	Tutorial	Project		
Duration [contact h]	30	14		16				
Examination type	Oral test	Written test	Homework	Sem. speech	Protocol	Work report	Proj. report	Proj. pres.
		x		x				
Grade composition	70% written test, 30% seminar speech							