

P05 Organic farming systems and mixed farming under temperate and (sub)tropical conditions

Module	Organic farming systems and mixed farming under temperate and (sub)tropical conditions							
Code	P05							
Coordinator	Prof. Dr. P von Fragstein							
Language	English							
Stud. Workload	180h (60h contact time)							
Credits	6 ECTS							
Frequency (WS/SS)	SS							
Instructors	Prof. Dr. P. von Fragstein, Prof. Dr. A. Bürkert, Prof. Dr. E. Schlecht							
Contents	Visits of organic farms; case studies of livestock-oriented organic farming under different environmental conditions and constraints; development, evaluation and comparison of land use management systems under diverse natural, economic and socio-cultural conditions; nutrient cycling in plant-animal systems; site-specific contributions of legumes to N supply; P availability, P recycling and use of rock phosphates; modes of P supply in farming systems; EC, Australian, Japanese and North American regulations for organic farming – problems and opportunities.							
Objectives	Students are able to describe the principles and functions of agro-ecosystems, understand nutrient cycles and options for their improvement as an important basis of organic farming, evaluate systems of land use with a particular focus on organic modes of production and their role in agro-ecosystems, assess the role of livestock for nutrient cycling and with respect to conservation of plant and animal biodiversity in (sub-)tropical settings, understand the role of different livestock species in organic farming systems across a range of temperate and (sub)tropical agro-ecological settings.							
Literature	Altieri, M. 1987: Agroecology: the scientific basis of alternative agriculture. Westview Press, Boulder, Colorado, USA; Willer, H. et al. 2008: The World of Organic Agriculture - Statistics and Emerging Trends 2008, IFOAM, Bonn, Germany.							
Study system usability	Economy		Organic		Tropical			
	E		C		M			
Entrance requirements	Basic knowledge in plant, soil and animal sciences							
Instruction type	Lecture	Seminar	Excursion	Practice	Tutorial	Project		
Duration [contact h]	40	10	10					
Examination type	Oral test	Written test	Homework	Sem. speech	Protocol	Work report	Proj. report	Proj. pres.
	x			x				
Grade composition	60% oral test, 40% seminar speech (oral presentation)							