

## A10 Livestock nutrition and breeding under (sub-) tropical conditions

<b>Module</b>	<b>Livestock nutrition and breeding under (sub-) tropical conditions</b>							
<b>Code</b>	<b>A10</b>							
Coordinator	Prof. Dr. E. Schlecht							
Language	English							
Stud. Workload	180h (56 h contact time)							
Credits	6 ECTS							
Frequency (WS/SS)	WS							
Instructors	Prof. Dr. E. Schlecht, Prof. Dr. S. König, Dr. A. Schiborra, Dr. T. Pinent							
Contents	This module analyses the physiological basis of livestock husbandry in the Tropics and Subtropics. The adaptation of the most widely used livestock species (cattle, small ruminants, camelids, buffalo, poultry, pigs) to the climatic conditions and to qualitatively and quantitatively variable fodder supply is studied. Possibilities to reduce the negative impact of environmental factors on animal production through adapted management strategies are analyzed. Opportunities and limitations of breeding strategies for the improvement of animal production under the given ecological and economic conditions are discussed and evaluated. Allocation of lecturing time: 50% animal nutrition, 50% animal breeding							
Objectives	Students are able: - to describe the effects of abiotic and biotic environmental influences on behaviour and physiology of different livestock species and to discuss respective adaptation strategies of animals; - to analyse the opportunities and limitations of feeding, management and breeding strategies for an optimization of livestock production under specific agro-ecological settings; - to individually explain and discuss such topics for a selected livestock species or breed in an oral seminar presentation or written essay.							
Literature	Payne; W.J.A., Wilson, R.T. 1999: An Introduction to Animal Husbandry in the Tropics. Blackwell Science Ltd., Oxford, UK; Van Soest, P.J. 1994: Nutritional Ecology of the Ruminant. Cornell University Press, Ithaca, US; Wiener, G. 1994: Animal Breeding (Tropical Agriculturist). Macmillan Education, Edinburgh, UK [ISBN-13: 978-0333572986].							
Study system usability	Economy		Organic		Tropical			
	-		E		M			
Entrance requirements	Basic knowledge (B.Sc. level) of soil, plant and animal sciences							
Instruction type	Lecture	Seminar		Excursion	Practice	Tutorial	Project	
Duration [h]	50		10					
Examination type	Oral test	Written test	Home-work	Sem. speech	Protocol	Work report	Proj. report	Proj. pres.
	x	x	x	x				
Grade composition	75% written or oral test, 25% oral seminar presentation or homework							