

## I12 Sustainable International Agriculture: basic principles and approaches

<b>Modul</b>	<b>Sustainable International Agriculture: basic principles and approaches</b>							
<b>Code</b>	<b>I12</b>							
<b>Coordinator</b>	<b>Prof. Dr. Eva Schlecht</b>							
Language	English							
Stud. Workload	180 h, (56 h Contact hours)							
Credits	6 ECTS							
Semester (WS / SS)	WS							
Instructor	Dr. J. Barkmann, Prof. A. Bürkert, Prof. Dr. U. Liebe, Prof. Dr. B. Ludwig, Prof. Dr. D. Möller, Prof. Dr. E. Schlecht							
Contents	<p>Global change, ranging from population growth, migration and urbanization on climate change, land degradation and water shortages are major challenges for the sustainable use of natural resources and human capital and produce an order must be globally all deal with agricultural production employed actors to continue the ensure adequate provision of both quantity and quality of food.</p> <p>This module therefore addresses the basic concepts and principles of sustainability and sustainable agriculture in their ecological, economic and social dimensions. Methodological approaches to gathering and assessing biophysical and socio-economic sustainability of a land use system and agricultural value chains will be discussed. Opportunities for sustainable management of water, soil, plants and animals, as well as agricultural products along the value chains are discussed, thereby providing the relevant temporal and spatial scale levels considered</p>							
Objectives	<p>The student:</p> <ul style="list-style-type: none"> <li>- Are able to characterize the most important bio-physical and socio-economic factors that shape agricultural production systems and resource use strategies.</li> <li>- Know relevant ecological, economic and social indicators for sustainability</li> <li>- Can be integrated process for the use of indicators for monitoring the sustainability of a system to explain and apply them to examples.</li> </ul>							
Literature	<p>Lecture notes and articles / publications are handed out at events.</p> <p>Bell, S. &amp; Morse, S., 2003. Measuring sustainability: learning by doing; Earthscan, London, UK. Bell, S. &amp; Morse, S., 2008. Sustainability indicators: measuring the immeasurable? Earthscan, London, UK.</p>							
Study system usability	Economy		Organic		Tropical			
	C		C		C			
Entrance requirements	Basic (BSc level) of Agricultural sciences							
Instruction type	Lecture	Seminar	Excursion	Practice	Tutorial	Project		
Durationr [kontakt h]	46	10						
Examination type	Oral test	Written test	Homework	Sem. speech	Protocol	Work report	Proj.report	Proj.pres.
	x		x	x				
Grade composition	Technical discussion and presentation with homework (written summary of presentation)							