

<b>Module Name</b>	<b>Module Code</b>
Management of Soil Resources	EMAEF047-01a
<b>Module Coordinator</b>	
Prof. Dr. Sandra Spielvogel	
<b>Organizer</b>	
Institute of Plant Nutrition and Soil Science - Soil Science	
<b>Faculty</b>	
Faculty of Agricultural and Nutritional Sciences	
<b>Examination Office</b>	
Faculty of Agricultural and Nutritional Sciences - Examination Office	

<b>ECTS Credits</b>	6
<b>Evaluation</b>	Graded
<b>Duration</b>	one semester
<b>Frequency</b>	Only takes place during summer semesters
<b>Workload per ECTS Credit</b>	30 hours
<b>Total Workload</b>	180 hours
<b>Contact Time</b>	60 hours
<b>Independent Study</b>	120 hours
<b>Teaching Language</b>	English

<b>Recommended Requirements</b>			
Skills in the application of computer software and data handling.			
<b>Module Courses</b>			
<b>Course Type</b>	<b>Course Name</b>	<b>Compulsory/Optional</b>	<b>SWS</b>
Lecture	Strategies for Sustainable Soil Management	Compulsory	2
Seminar	Vulnerability and Changes of Soil Functions	Compulsory	2

<b>Examination(s)</b>				
<b>Examination Name</b>	<b>Type of Examination</b>	<b>Evaluation</b>	<b>Compulsory / Optional</b>	<b>Weighting</b>
Oral Examination: Management of Soil Resources	Oral Examination	Graded	Compulsory	100
<b>Further Information on the Examination(s)</b>				
1.+2. period in summer semester 1. period in winter semester examiner: Prof. Dr. Sandra Spielvogel / Dr. Sebastian Löppmann QIS: 76100 with number of Examination 76110				

<b>Course Content</b>
The course teaches operations, practices, and treatments to protect soil and enhance its performance (such as soil fertility or soil mechanics). This includes soil conservation, soil amendment, and optimal soil health
<b>Learning Outcome</b>
Students have a profound knowledge about soil conservation practices and sustainable soil management, e.g. to reduce production and emission of greenhouse gases, to sequester carbon from the atmosphere by storing carbon as soil organic carbon (SOC), to maintain soil fertility and to reduce soil pollution.
<b>Reading List</b>
Lecture slides; scientific publications (provided during the course)

<b>Use</b>	<b>Compulsory / Optional</b>	<b>Semester</b>
Master, 1-Subject, Agricultural Sciences, Specialisation Agricultural Economics, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Agribusiness, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Crop Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Animal Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Agricultural Sciences, Specialisation Environmental Sciences, (Version 2017)	Optional	-
Master, 1-Subject, Applied Ecology, (Version 2016)	Optional	-
Master, 1-Subject, Applied Ecology, (Version 2015)	Optional	-
Master, 1-Subject, Environmental Management, (Version 2020)	Optional	-
Master, 1-Subject, Environmental Management, (Version 2017)	Optional	-
Master, 1-Subject, Nutritional and Food Science, (Version 2013)	Optional	-
Master, 1-Subject, Nutritional and Consumer Economics, (Version 2017)	Optional	-
Master, 1-Subject, International Master in Applied Ecology, (Version 2020)	Optional	-