

Module Name		Module Code	
Productivity and Efficiency Analysis		agrarAEF069-01a	
Module Coordinator			
Prof. Dr. Sebastian Heß			
Organizer			
Institute of Agricultural Economics - Dairy and Food Industry Economics			
Faculty			
Faculty of Agricultural and Nutritional Sciences			
Examination Office			
Faculty of Agricultural and Nutritional Sciences - Examination Office			
ECTS Credits	6		
Evaluation	Graded		
Duration	one semester		
Frequency	Only takes place during summer semesters		
Workload per ECTS Credit	30 hours		
Total Workload	180 hours		
Contact Time	60 hours		
Independent Study	120 hours		
Teaching Language	English		
Recommended Requirements			
Quantitative Methods, Microeconomics, Econometrics			
Module Courses			
Course Type	Course Name	Compulsory/Optional	SWS
Lecture	Productivity and Efficiency Analysis	Compulsory	2
Practical Exercise	Productivity and Efficiency Analysis	Compulsory	2

Prerequisites for Admission to the Examination(s)

Examination(s)				
Examination Name	Type of Examination	Evaluation	Compulsory / Optional	Weighting
Written or oral Examination: Economic Production and Trade Analysis	Written or oral Examination	Graded	Compulsory	100

Further Information on the Examination(s)
<p>The type of examination administration is determined at the beginning of the semester. (Apply to the following 3 periods)</p> <p>1.+2. period in summer semester 1. period in winter semester</p> <p>examiner: Prof. Dr. Heß QIS: xxxxxxxxx with number of Examination xxxxxxxxxxxxxxxxxxxxx</p>

Course Content
<p>production theory and technologies (primal and dual, i.e. production functions, cost and profit functions, distance functions) - formal and mathematical description/notation of production problems productivity, efficiency concepts and frontiers</p> <p>introduction to empirical trade analysis based on contemporary equilibrium models</p> <p>gravity regressions with international trade data data, measurement, screening and evaluation</p> <p>relevant statistical concepts and software (e.g. R.Stata, Limdep, gretl.)</p>

Learning Outcome
<p>To enable students to conduct empirical analyses in the area of production and trade. Theoretical concepts and empirical methods will be applied by using real data in the agricultural and food sector as well as stateof-the-art statistical software. Students will be able to empirically investigate questions related to agricultural production and trade in the Agri-food Sector. The knowledge of such methodical skills is of essential importance for successfully working at national and international organisations and companies. In addition, the course aims to help students to prepare for potential methodological aspects of their MSc. Thesis.</p>

Reading List
<p>Relevant articles will be distributed during lectures.</p>

Use	Compulsory / Optional	Semester
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Agricultural Economics, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Agribusiness, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Crop Sciences, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Animal Sciences, (Version 2013)	Optional	-
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2017)	Optional	-
Master, 1-subject, Agricultural Sciences, Environmental Sciences, (Version 2013)	Optional	-
Master, 1-subject, Dairy Science, (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, Nutritional and Consumer Economics, (Version 2013)	Optional	-