Simulation Models for Policy Analysis

Code: APO-210 POS: 749142040		Workload (h) 180	Credits (LP) 6	Duration 1		Turnus SS
Coordinator	PD Dr. Wolfgang Britz					
Lecturers	PD Dr. Wolfgang Britz					
Teaching unit(s)	Agrar-, Forst- und Ernährungswissenschaften					
Usability	Course program				Mode	Study semester
	M.Sc. Agricultural and Food Economics				WPF	2.
Learning objectives	With the completion of this course, the students have acquired advanced competence in the concepts, formulation and interpretation of theory-based partial and general equilibrium models for policy analysis. Furthermore, they have been introduced to the General Algebraic Modelling System (GAMS) and are capable of independently modifying market-scale economic simulation models in this modelling language.					
Key competences	Conceptualization of market-scale problems, computer programming, quantitative analysis of policy instruments					
Learning content	1) Introduction to GAMS 2) Profit and utility maximization in GAMS 3) Key elements of Multi-Commodity market models (MCM) 4) Flexible functional forms and parameter calibration, welfare analysis 5) Modelling international trade: point markets, spatial abritrage, Armington approach 6) Simulation exercises with selected MCMs 7) The structure of a Social Accounting Matrix 8) Key elements of Computable General Equilibrium model (CGE) 9) Simulation exercises with selected CGE models					
Language	English					
Prerequisites	Modul BAS -130 or equivalent					
Maximum number of students						

Courses	Teaching method	Topic	Class size	Contact time per week	Workload [h]
	V Ü	Simulation Models for Policy Analysis (ratio V:Ü 3:1)	15	4,0	180

Examination(s)	Code	Type of examination	Duration of examination	
	749142049 749142048	Written exam (50%) Assignments (to be solved in groups) (50%)	60 min semesterbegleitend	graded
Prerequisites for admission to the exam	none			not graded
Other				