

Module Directory

Faculty 09 - Agricultural Sciences, Nutritional Sciences and Environmental Management

English Profile Modules for Transition Management

Please consult Stud.IP, the study schedule or current university calendar for information regarding dates and room numbers of the modules taught in the course.

<http://www.uni-giessen.de/cms/fbz/fb09/studium/msc/stpl>

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MK 002 - Biostatistics and Experimental Design				1./2. Sem.;	6 CP	
				1./3. Sem.;		
English Module Title		Biostatistics and Experimental Design				
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Pflanzenbau und Pflanzenzüchtung II / Biometrie und Populationsgenetik mit dem Schwerpunkt Bioinformatik				
Applies to degree courses/semesters		Agrobiotechnology, Master (1./2.) Insect Biotechnology and Bioresources, Master (1./2.) Profil Transition Management, Master (1./3.)				
Module coordinator		Prof. Dr. Matthias Frisch				
Prerequisites for participation		none				
Course aims		Students <ul style="list-style-type: none"> • have profound knowledge of quantitative methods in plant production • have profound knowledge experimental designs • are able to design experiments • have profound knowledge in hypothesis testing and inferential statistics 				
Module content		<ul style="list-style-type: none"> • Methods of descriptive statistics • Test-theory and estimation of parameters • Analysis of variance and analysis of regression • Data analysis using statistical software 				
Forms of instruction		Vorlesung (50%), Praktikum (50%)				
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture	30	30			
	Seminar					
	Practical training exercises	30	30			
	Study trip					
	Homework					
	60	60	30	30	180 / 6 CP	
Module examination	Form(s) of assessment	a) weekly exercises (12), written examination or b) other examinations conducted by the teaching staff (see SpezO § 8).				
	Components of final grade	exercises (30 %), written examination (70 %)				
	Form of module component retake examination					
	Form of module retake examination	written examination or repeat/revision of the examination as described in b).				
Frequency	WiSe	Duration 1 semester				
Intake capacity	not limited (PC-Exercises in groups of size 20)					
Language of instruction	English					
Website	www.uni-giessen.de/population-genetics					

MK 013 - Risk Assessment, Biosafety and Patent Law				3. Sem.;	6 CP
English Module Title		Risk Assessment, Biosafety and Patent Law			
Faculty / chair / department		Agrarwissenschaften, Ökotoxikologie und Umweltmanagement / Institut für Phytopathologie / Phytopathologie			
Applies to degree courses/semesters		Agrobiotechnology, Master (3.)Profil Transition Management, Master (3.)			
Module coordinator		Prof. Dr. Karl-Heinz Kogel			
Prerequisites for participation		cores of the 1st semester			
Course aims		<p>Students will</p> <ul style="list-style-type: none"> • have broad knowledge of various processes in the field of technology assessment of agricultural products • be able to explain the structure and the tasks of the different institutions responsible for evaluation of suitability, risk assessment, environment protection, farmer and consumer protection, and food security • be able to understand the ethic aspects of technology assessment • know fundamental principles of the European Patent Law 			
Module content		<ul style="list-style-type: none"> • Development of guidances for the risk management of plant protection products • Evaluation of suitability of plant protection products • Tasks and structure of the EU Ethic and Food Safety Authority Commission • Tasks and structure of the Federal Institute for Consumer Protection and Food Security (BVL) • Tasks and structure of the Federal Institute for Risk Assessment (BfR), Environmental Agency (UBA), and Biological Research Centre for Agriculture and Forestry (BBA) • Tasks and structure of the European and Mediterranean Plant Protection Organization (EPPO) • Ecotoxicologic studies of side effects of plant protection products (e.g. surface water pollution, effects on beneficial insects) • Federal and European Patent Law • TA studies on environmental problems of agriculture • TA studies on renewable energies • TA and SD studies on agriculture, food chains and food • Terms and conditions for organic farming and Integrated Pest Management • Release and marketing of genetically modified organisms 			
Forms of instruction		Vorlesung (50%), Seminar (50%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	30	90		
	Seminar	30			
	Practical training exercises				
	Study trip				
	Homework	60	90	30	180 / 6 CP
Module examination	Form(s) of assessment	a) written examination, seminar work (each part must be sufficient) or b) other examinations conducted by the teaching staff (see SpezO § 8).			
	Components of final grade	seminar work (50 %), written examination (50 %)			
	Form of module component retake examination	repeat/revision of the failed examination part			
	Form of module retake examination	oral or written examination or repeat/revision of the examination as described in b).			
Frequency	WiSe	Duration 1 Semester			
Intake capacity	not limited				
Language of instruction	English				
Website	www.uni-giessen.de/phyto				

MK 080 - Resource Economics, Sustainability and Environmental Management				1./2. Sem.;	6 CP
English Module Title				Resource Economics, Sustainability and Environmental Management	
Faculty / chair / department				Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Agrarpolitik und Marktforschung / Agrar- und Umweltpolitik	
Applies to degree courses/semesters				Umweltwissenschaften, Master (1./2.) Profil Transition Management, Master (2./4.)	
Module coordinator				Prof. Dr. Ernst-August Nuppenau	
Prerequisites for participation				none	
Course aims				<p>Students will</p> <ul style="list-style-type: none"> • have foundational knowledge modelling intertemporal optimization of agricultural resource utilization • understand the basics of management concepts towards the resolution of resource use conflicts • be able to simultaneously model ecological and economic material cycles • be able to depict dynamic processes of resource regeneration • be able to construct computer simulation models • be able to derive economically and ecologically justifiable extraction rates from soil, water, and biotic resources • be able to draw knowledge of such concepts as sustainability, the introduction of save minimum standards, etc. to aid efforts in resource management. 	
Module content				<ul style="list-style-type: none"> • intertemporal optimization and resource usage • economics of non-renewable resources • economics of renewable resources • open access property and extinction of species as biotic resources • nature conservation as common property management • introduction to the economics of sustainable cultivation • mathematical formulation of resource management models • programming of optimization models • management of cultivated landscapes • trade and the environment • political questions about the implementation of environmental policies • international questions of resource protection • resource evaluation • property rights and institutions 	
Forms of instruction				Vorlesung (67%), Seminar (20%), Praktikum (13%)	
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	40	50		
	Seminar	12			
	Practical training exercises	8			
	Study trip				
	Homework				
		60	50	30	40
		180 / 6 CP			
Module examination	Form(s) of assessment		a) power point presentation, written examination or b) other examinations conducted by the teaching staff (see SpezO § 8).		
	Components of final grade		power point presentation (30 %), written examination (70 %)		
	Form of module component retake examination				
	Form of module retake examination		current part of examination or repeat/revision of the examination as described in b).		
Frequency		SoSe		Duration 1 Semester	
Intake capacity		30			
Language of instruction		English and German			
Website		www.uni-giessen.de/cms/fbz/fb09/institute/iam/pau			

MK 096 - Sustainable Agroecosystems				1./2. Sem.;	6 CP	
English Module Title		Sustainable Agroecosystems				
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Pflanzenbau und Pflanzenzüchtung II / Ökologischer Landbau mit dem Schwerpunkt nachhaltige Bodennutzung				
Applies to degree courses/semesters		Nutzpflanzenwissenschaften, Master (1./2.) Profil Transition Management, Master (2./4.)				
Module coordinator		Apl. Prof. Dr. Andreas Gattinger				
Prerequisites for participation		None				
Course aims		<p>The students</p> <ul style="list-style-type: none"> • Get insight knowledge in to the complexity of temperate and tropical agroecosystems under integrated, organic and agro-ecological production • Learn and understand the biophysical factors, processes and interactions that control the functioning of agroecosystems. • Are guided to critically examine agricultural practices and management strategies to increase/stabilize productivity and resource use efficiency, while minimizing negative impacts on the environment and ensuring socio-economic viability. • Practice scientific observation in the field • Practically apply agroecologic principles • broaden their understanding of environmental and socio-economic challenges of farming enterprises • deepen their ability to access a topic by means of scientific methodologies 				
Module content		<ul style="list-style-type: none"> • Agriculture from a systems perspective • Principles of agricultural sustainability • Principles of integrated production, organic farming and agroecology • Sustainability impacts of temperate and tropical agroecosystems covering the main crop commodities and land use systems (Arable, grassland, horticulture) • Farming system innovations (e.g. agroforestry, relay cropping, push-pull systems) • Introduction to action research • Practical work in an experimental garden • Writing and presenting own contributions to the given topics • How to access a topic scientifically? Evaluation of various media sources (from brochure to scientific paper) for further successful communication and dissemination of climate change issues. • Excursions to research and private farms 				
Forms of instruction		Seminar (83%), Exkursion (17%)				
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture					
	Seminar	50	50			
	Practical training exercises					
	Study trip	10				
	Homework					
	60	50	40	30	180 / 6 CP	
Module examination	Form(s) of assessment	Seminar work (Presentations, exercises, discussions; assessment scheme can be requested from module coordinator) and oral examination				
	Components of final grade	Seminar work (50%), oral examination (50%)				
	Form of module component retake examination					
	Form of module retake examination	Oral examination				
Frequency	SoSe		Duration 1 Semester			
Intake capacity	40					
Language of instruction	English					
Website	www.uni-giessen.de/oekolandbau					

MP 007 - International Nutrition Security II				1.-4. Sem.; 2./4. Sem.;	6 CP
English Module Title		International Nutrition Security II			
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Ernährungswissenschaft / Internationale Ernährung			
Applies to degree courses/semesters		Profil, Master (1.-4.)/Profil Transition Management, Master (2./4.)			
Module coordinator		Prof. Dr. Gunter P. Eckert (Internationale Ernährung)			
Prerequisites for participation		keine (empfohlen: ernährungswissenschaftliche Grundkenntnisse)			
Course aims		<p>Die Studierenden</p> <ul style="list-style-type: none"> haben vertiefte Kenntnisse über Protein-Energie-Malnutrition und Mikronährstoffmangelzustände sowie deren Management, beherrschen anthropometrische Verfahren zur Diagnostik von Malnutrition, können die Voraussetzungen für Ernährungssicherheit für Länder und Regionen analysieren und Empfehlungen geben, kennen die Problematik der 'double burden' der Mangelernährung, können die Indikation für Nahrungsmittelhilfe stellen und kennen die Durchführung. 			
Module content		<ul style="list-style-type: none"> Pathogenese, Klinik, Diagnostik und Management der Protein-Energie-Malnutrition Mikronährstoffmangelzustände Interaktion Krankheit / Ernährungsstörung Rahmenbedingungen für Ernährungssicherheit Analysen, Richtlinien und Probleme der Nahrungsmittelhilfe anthropometrische Messverfahren mit Übungen Methoden der Ernährungserhebung in Ländern mit niedrigem Einkommen Einrichtungen der Entwicklungszusammenarbeit mit Besuch von Institutionen Nahrungsmittelkunde tropischer Länder Epidemiologie von Ernährungsstörungen Gender-Aspekte der Ernährungssicherung 			
Forms of instruction		Vorlesung (50%), Seminar (50%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	30	90		
	Seminar	30			
	Practical training exercises				
	Study trip				
	Homework				
	60	90		30	180 / 6 CP
Module examination	Form(s) of assessment	a) Klausur, Seminarbeitrag oder b) Prüfungsleistung nach Maßgabe des Lehrenden (siehe SpezO § 8).			
	Components of final grade	Klausur (50 %), Seminarbeitrag (50 %)			
	Form of module component retake examination				
	Form of module retake examination	Klausur oder mündliche Prüfung oder Wiederholung/Überarbeitung der in b) festgesetzten Prüfungsleistung.			
Frequency	SoSe	Duration 1 Semester			
Intake capacity	nicht limitiert				
Language of instruction	Deutsch (50%) / Englisch (50%)				
Website	www.uni-giessen/fb09/int-ern				

MP 044 - Economy of Rural Institutions				1./3. Sem.;	6 CP
English Module Title		Economy of Rural Institutions			
Faculty / chair / department		Agrarwissenschaften, Ökotröphologie und Umweltmanagement / Institut für Agrarpolitik und Marktforschung / Agrar- und Umweltpolitik			
Applies to degree courses/semesters		Profil, Master (3./4.)Profil Transition Management, Master (1./3.)			
Module coordinator		Prof. Dr. Ernst-August Nuppenau			
Prerequisites for participation		none			
Course aims		<p>Students will</p> <ul style="list-style-type: none"> • have basic knowledge of the relationship between agriculture and society from perspectives of sociology and institutional economics • be able to recognize how human activity is determined in a social context, as well as how institutions are explained economically and socially • recognize the interactions between individuals and society and know methodical approaches to elucidating the structure of agrarian societies • be familiar with basic social issues in agrarian societies and be able to apply various social theories of work, land, credit, input markets 			
Module content		<ul style="list-style-type: none"> • Foundations of & demands on agrarian institutions by transaction minimal costs • Efficient institutions and rural forms of organization • Work and land: theories of sharecropping and distribution of surplus • Land taxes: potentials and limitations in international comparison • Land policy and land reform, institutional regulation of rural credit markets • Water rights and technology • Comparison of agricultural law in various countries • Problems associated with institutional change • Institutional problems of agricultural transition in Eastern Europe • Interaction between individuals and societal institutions, • Theories of social stratification, community and society • Theories of social change and effects on the agricultural sector • Property and usage rights, property rights and rents • Theories of social justice and appropriation • Agrarian constitutions and labour regulations • Land access and regulations, land ownership • Rural behaviour, rural welfare systems in historical context • Traditional social safety nets • Peasantry and peasant behaviour, farming as a lifestyle 			
Forms of instruction		Vorlesung (50%), Seminar (50%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	30	30		
	Seminar	30	30		
	Practical training exercises				
	Study trip				
	Homework				
	60	60	30	30	180 / 6 CP
Module examination	Form(s) of assessment	a) Oral examination (0,5 h) and presentation or b) other examinations conducted by the teaching staff (see SpezO § 8).			
	Components of final grade	Oral examination (60%), presentation (40%)			
	Form of module component retake examination				
	Form of module retake examination	Oral examination or repeat/revision of the examination as described in b).			
Frequency	WiSe	Duration 1 Semester			
Intake capacity	not limited				
Language of instruction	English				

MP 087 - Global Nutrition and Agriculture				1./3. Sem.;	6 CP
English Module Title		Global Nutrition and Agriculture			
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Agrarpolitik und Marktforschung / Agrar- und Umweltpolitik			
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (1./3.)			
Module coordinator		Prof. Dr. Ernst-August Nuppenau			
Prerequisites for participation		None			
Course aims		<p>The students</p> <ul style="list-style-type: none"> • know the determinants of food and nutrition security, • are able to make estimates of the regional food requirements and the carrying capacity, • are able to overlook the associations between health and nutrition, • have an overview about structures and strategies of nutrition promotion. 			
Module content		<ul style="list-style-type: none"> • global nutrition a challenge for agricultural development • food requirements, natural resources and population • regional potential of food production • technology development, institutions and human capital • sectoral development strategies, agriculture and nutrition • commercialisation of agriculture, cash-crop- vs. food-crop-debate • international labour division and nutrition security • nutrition security and health • migration and malnutrition • cultural, economic and social determinants of nutrition • breastfeeding and nutrition security • nutrition security and food aid • development aid approaches • international organisations for nutrition security and agricultural development <p>Excursion to Rome or Geneva (participation optional)</p>			
Forms of instruction		Vorlesung (50%), Seminar (50%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	30	40		
	Seminar	30			
	Practical training exercises				
	Study trip				
	Homework				
	60	40	50	30	180 / 6 CP
Module examination	Form(s) of assessment	a) Written exam or b) other examinations conducted by the teaching staff (see SpezO § 8).			
	Components of final grade	Written exam (100 %)			
	Form of module component retake examination				
	Form of module retake examination	Written exam or repeat/revision of the examination as described in b).			
Frequency	WiSe	Duration 1 semester			
Intake capacity	non limited				
Language of instruction	English				
Website	www.uni-giessen.de/cms/fbz/fb09/institute/iam/pau				

MP 100 - Bioinformatics				1./3. Sem.;	6 CP	
English Module Title				Bioinformatics		
Faculty / chair / department				Agrarwissenschaften, Ökotoxologie und Umweltmanagement / Institut für Pflanzenbau und Pflanzenzüchtung II / Biometrie und Populationsgenetik mit dem Schwerpunkt Bioinformatik		
Applies to degree courses/semesters				Profil, Master (1.-4.)Profil Transition Management, Master (1./3.)		
Module coordinator				Prof. Dr. Matthias Frisch		
Prerequisites for participation				Angewandte Statistik (MK62) oder Biostatistics and experimental Design (MK02)		
Course aims				Students <ul style="list-style-type: none"> • know the concept of random variates and probability distributions • understand the basics of statistical test and estimation theory • can apply tests to bioinformatics data • have basic knowledge about the analysis of high dimensional data sets 		
Module content				<ul style="list-style-type: none"> • Probability theory • Test theory • Data and control structures in R • Statistical tests with R and Bioconductor • Visualisation of high dimensional data 		
Forms of instruction				Vorlesung (50%), Praktikum (50%)		
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture	30	30			
	Seminar					
	Practical training exercises	30	30			
	Study trip					
	Homework					
	60	60	30	30	180 / 6 CP	
Module examination	Form(s) of assessment	a) Graded exercises (4) or b) other examinations conducted by the teaching staff (see SpezO § 8).				
	Components of final grade	Exercises (100 %)				
	Form of module component retake examination					
	Form of module retake examination	Written examination or repeat/revision of the examination as described in b).				
Frequency	WiSe	Duration 1 Semester				
Intake capacity	60					
Language of instruction	English					
Website	www.uni-giessen.de/population-genetics					

MP 176 - Sustainable Food Systems				1./3. Sem.;	6 CP	
English Module Title		Sustainable Food Systems				
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Pflanzenbau und Pflanzenzüchtung II / Ökologischer Landbau mit dem Schwerpunkt nachhaltige Bodennutzung				
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (1./3.)				
Module coordinator		Apl. Prof. Dr. Andreas Gattinger				
Prerequisites for participation		None				
Course aims		<p>The students</p> <ul style="list-style-type: none"> • Learn and apply inter- and transdisciplinary research approaches (e.g. participatory research, action research) • Can analyse their own food systems • Know about best practices of sustainable food system components • Are able to critically examine food systems and suggest improvements • deepen their ability to access a topic by means of scientific methodologies 				
Module content		<ul style="list-style-type: none"> • Widening the focus from farming/agroecosystems to food systems • Methods to assess the sustainability of different food systems • Components of sustainable food systems (agricultural production, transformation, logistics, ...) • Food system innovations (e.g. Food Policy Councils, Community Supported Agriculture, Food Saving) • Discussions with local food system stakeholders • Writing and presenting own contributions to the given topics 				
Forms of instruction		Seminar (83%), Exkursion (17%)				
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture					
	Seminar	50	50			
	Practical training exercises					
	Study trip	10				
	Homework					
	60	50	40	30	180 / 6 CP	
Module examination	Form(s) of assessment	Seminar work (Group work, presentations, exercises, discussions; assessment scheme can be requested from module coordinator)				
	Components of final grade	Seminar work (100%)				
	Form of module component retake examination					
	Form of module retake examination	Oral examination				
Frequency	WiSe		Duration 1 Semester			
Intake capacity	30					
Language of instruction	English					
Website	www.uni-giessen.de/oekolandbau					

MP 178 - Empirical research methods for natural resource analysis				1.-4. Sem.; 2./4. Sem.;	6 CP
English Module Title		Empirical research methods for natural resource analysis			
Faculty / chair / department		Agrarwissenschaften, Ökotoxikologie und Umweltmanagement / Institut für Landschaftsökologie und Ressourcenmanagement / Landschaftsökologie und Landschaftsplanung			
Applies to degree courses/semesters		Profil, Master (1.-4.) Profil Transition Management, Master (2./4.)			
Module coordinator		Prof. Dr. Till Kleinebecker			
Prerequisites for participation		None (Basic knowledge of statistics/empirical research methods recommended)			
Course aims		<p>The students</p> <ul style="list-style-type: none"> • Will know best practice examples of empirical research designs • Know how to analyse and interpret multivariate statistics (ordination methods) • Know how to classify data (cluster analysis) • Handle data in the R environment to analyse their own data • Will be able to write a scientific research report 			
Module content		<ul style="list-style-type: none"> • Tutorials in small groups working on exemplary data of empirical research on natural resources • Developing own sampling strategy for field research • Own data collection • Multivariate analysis of data • Writing a research report 			
Forms of instruction		Vorlesung (33%), Übung (67%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	20			
	Seminar				
	Practical training exercises	40	30		
	Study trip				
	Homework				
	60	30	60	30	180 / 6 CP
Module examination	Form(s) of assessment		Seminar work and oral presentation		
	Components of final grade		Seminar work (70 %), oral presentation (30 %)		
	Form of module component retake examination				
	Form of module retake examination		XXX		
Frequency		SoSe (Block)		Duration 1 Semester	
Intake capacity		30			
Language of instruction		English			
Website		www.uni-giessen.de/fbz/fb09/institute/boden			

MP 179 - Natural Resources and Ecosystem Services				1.-4. Sem.; 2./4. Sem.;	6 CP
English Module Title		Natural Resources and Ecosystem Services			
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Landschaftsökologie und Ressourcenmanagement / Landschafts-, Wasser- und Stoffhaushalt			
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (2./4.)			
Module coordinator		Prof. Dr. Lutz Breuer			
Prerequisites for participation		None (Basic knowledge of environmental processes and GIS recommended)			
Course aims		<p>The students</p> <ul style="list-style-type: none"> • Understand the concept of ecosystem services • Know how to estimate ecosystem services using InVEST • Are able to assess and evaluate natural resources with regard to multiple ecosystem services for an individual project 			
Module content		<ul style="list-style-type: none"> • Introduction to the concept of supporting, regulating, provisioning and cultural ecosystem services • Identification and understanding of multiple ecosystem services provided by different ecosystems • Repetition of GIS using ArcGIS software • Learning how to use and analyse spatial datasets with InVEST • Evaluate and use results in the frame of a decision support analysis 			
Forms of instruction		Vorlesung (33%), Übung (67%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	20			
	Seminar				
	Practical training exercises	40	30		
	Study trip				
	Homework				
	60	30	60	30	180 / 6 CP
Module examination	Form(s) of assessment		Seminar work and oral presentation		
	Components of final grade		Seminar work (70 %), oral presentation (30 %)		
	Form of module component retake examination				
	Form of module retake examination		XX		
Frequency		SoSe		Duration 1 Semester	
Intake capacity		30			
Language of instruction		English			
Website		www.uni-giessen.de/cms/fbz/fb09/institute/ilr/wasser			

MP B 145 - Methods of Regional Analysis and Planning				1./3. Sem.;	6 CP
English Module Title		Methods of Regional Analysis and Planning			
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Agrarpolitik und Marktforschung / Agrar- und Entwicklungspolitik			
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (1./3.)			
Module coordinator		Prof. Dr. Martin Petrick			
Prerequisites for participation		none			
Course aims		<p>Students will</p> <ul style="list-style-type: none"> recognize the necessity and purpose of demarcation and differentiations of rural regions have knowledge of the major methods of region differentiation know key analytic parameters for describing regional structures be able to apply quantitative methods for the analysis and forecasting of regional developments recognize the necessity of evaluation within the scope of regional and environmental planning be able to assess the advantages and disadvantages of various evaluation methods be able to select and apply adequate evaluation methods for various regional and environmental Planning consider the basics of project management 			
Module content		<ul style="list-style-type: none"> principles of regional grouping and differentiation] methods of regional demarcation statistical parameters of regional analysis complex indicators for describing regional structures methods of regional structural analysis regional models foundations of welfare theory evaluation methods application of evaluation methods to examples of regional and environmental planning project management in regional and environmental planning 			
Forms of instruction		Vorlesung (67%), Übung (33%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	40	40		
	Seminar				
	Practical training exercises	20	40		
	Study trip				
	Homework				
	60	80	20	20	180 / 6 CP
Module examination	Form(s) of assessment	a) written examination, paper or b) other examinations conducted by the teaching staff (see SpezO § 8)			
	Components of final grade	written examination (80 %), paper (20 %)			
	Form of module component retake examination				
	Form of module retake examination	oral examination or repeat/revision of the examination as described in b)			
Frequency	WiSe	Duration 1 Semester			
Intake capacity	not limited				
Language of instruction	English				
Website	www.uni-giessen.de/cms/fbz/fb09/institute/iam/prof-ae				

MP B 164 - Geomatics for Development				1./3. Sem.;	6 CP
English Module Title		Geomatics for Development			
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Landschaftsökologie und Ressourcenmanagement / Landschafts-, Wasser- und Stoffhaushalt			
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (1./3.)			
Module coordinator		Prof. Dr. Lutz Breuer			
Prerequisites for participation		None			
Course aims		<p>The students</p> <ul style="list-style-type: none"> • Acquire geospatial data, assess its quality and organize it • Analyze biophysical and socioeconomics changes • Assess the potential and limitations of using geomatics to promote development in transition and developing countries • Communicate research effectively • Gain confidence and competency in using geomatics 			
Module content		<ul style="list-style-type: none"> • Mapping our changing world • Finding geospatial data • Understanding cartographic projections • Assessing spatial data quality • Evaluating demographic changes • Finding satellite images • Visualizing and interpreting images • Extracting information from images • Assessing accuracy of image-based information 			
Forms of instruction		Vorlesung (25%), Übung (75%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	15			
	Seminar				
	Practical training exercises	45	30		
	Study trip				
	Homework				
	60	30	60	30	180 / 6 CP
Module examination	Form(s) of assessment	a) Study paper, Lab protocol, Project work or b) other examinations conducted by the teaching staff (see SpezO § 8).			
	Components of final grade	Study paper (25 %), Lab protocol (25 %), Project work (50 %)			
	Form of module component retake examination				
	Form of module retake examination	Failed examination will be re-examined after 4 weeks or repeat/revision of the examination as described in b).			
Frequency	WiSe	Duration 1 Semester			
Intake capacity	30				
Language of instruction	English				
Website	www.uni-giessen.de/cms/fbz/fb09/institute/ilr/wasser				

MP B 165 - Land Potential Evaluation Systems, Strategies and Tools				1.-4. Sem.; 2./4. Sem.;	6 CP	
English Module Title		Land Potential Evaluation Systems, Strategies and Tools				
Faculty / chair / department		Agrarwissenschaften, Ökotoxikologie und Umweltmanagement / Institut für Landschaftsökologie und Ressourcenmanagement / Landschafts-, Wasser- und Stoffhaushalt				
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (2./4.)				
Module coordinator		Prof. Dr. Lutz Breuer				
Prerequisites for participation		None (Basic knowledge of geography and GIS is recommended)				
Course aims		<p>The students</p> <ul style="list-style-type: none"> • Understand strategies, systems and tools needed to evaluate the potential of the land to sustainably generate ecosystem services • Identify the importance of spatial information to evaluate land potential • Assess land suitability for specific land use types based on multi-criteria analysis 				
Module content		<ul style="list-style-type: none"> • Review and applications of existing land potential evaluation systems • Principles for improving existing land potential evaluation systems • Tools, resources and strategies for unlocking the potential of land resources • Options for applying land potential evaluation to land use planning and management 				
Forms of instruction		Vorlesung (25%), Übung (75%)				
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture	15				
	Seminar					
	Practical training exercises	45	30			
	Study trip					
	Homework					
	60	30	60	30	180 / 6 CP	
Module examination	Form(s) of assessment	a) Study paper, Lab protocol, Project work or b) other examinations conducted by the teaching staff (see SpezO § 8).				
	Components of final grade	Study paper (25 %), Lab protocol (25 %), Project work (50 %)				
	Form of module component retake examination					
	Form of module retake examination	Failed examination will be re-examined after 4 weeks or repeat/revision of the examination as described in b).				
Frequency	SoSe		Duration 1 Semester			
Intake capacity	30					
Language of instruction	English					
Website	www.uni-giessen.de/cms/fbz/fb09/institute/ilr/wasser					

MP B 166 - Mapping and Monitoring Landscape				1.-4. Sem.; 2./4. Sem.;	6 CP	
English Module Title		Mapping and Monitoring Landscape				
Faculty / chair / department		Agrarwissenschaften, Ökotoxikologie und Umweltmanagement / Institut für Landschaftsökologie und Ressourcenmanagement / Landschafts-, Wasser- und Stoffhaushalt				
Applies to degree courses/semesters		Profil, Master (1.-4.) Profil Transition Management, Master (2./4.)				
Module coordinator		Prof. Dr. Lutz Breuer				
Prerequisites for participation		None				
Course aims		<p>The students</p> <ul style="list-style-type: none"> • Identify land cover units and assess land cover changes from remote sensing images • Quantify landscape composition and configuration • Compare spatial pattern of different landscapes • Integrate existing geospatial data for ecosystem mapping 				
Module content		<ul style="list-style-type: none"> • Land cover classification • Land cover change • Landscape metrics • Spatial variation of landscapes • From land cover to ecosystems mapping • Land use and ecosystems services feedbacks 				
Forms of instruction		Vorlesung (25%), Übung (75%)				
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture	15				
	Seminar					
	Practical training exercises	45	30			
	Study trip					
	Homework					
	60	30	60	30	180 / 6 CP	
Module examination	Form(s) of assessment	a) Study paper, Lab protocol, Project work or b) other examinations conducted by the teaching staff (see SpezO § 8).				
	Components of final grade	Study paper (25 %), Lab protocol (25 %), Project work (50 %)				
	Form of module component retake examination					
	Form of module retake examination	Failed examination will be re-examined after 4 weeks or repeat/revision of the examination as described in b).				
Frequency	SoSe, block course			Duration 1 Semester		
Intake capacity	30					
Language of instruction	English					
Website	www.uni-giessen.de/cms/fbz/fb09/institute/ilr/wasser					

MP B 168 - GIS for Socio-Economic Analysis				1.-4. Sem.; 2./4. Sem.;	6 CP	
English Module Title		GIS for Socio-Economic Analysis				
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Institut für Landschaftsökologie und Ressourcenmanagement / Landschafts-, Wasser- und Stoffhaushalt				
Applies to degree courses/semesters		Profil Transition Management, Master (2./4.)Profil, Master (1.-4.)				
Module coordinator		Prof. Dr. Lutz Breuer				
Prerequisites for participation		None (recommended: basic knowledge of geography and GIS)				
Course aims		<p>The students</p> <ul style="list-style-type: none"> • Understand the basics of Geographic Information Systems (GIS) • Understand how to use the ArcGIS-platform • Apply basic geospatial analysis for socio-economic questions • Are able to transfer and use of these techniques in an individual project 				
Module content		<ul style="list-style-type: none"> • Overview of GIS and the ArcGIS platform in particular • GIS file formats (raster, vector) • Analyze spatial data and create cost-data-sets for transport-costs • Analyze individual data sets using ArcGIS • Evaluate results and use results in the frame of a decision support analysis, • Report results and decision in a final presentation 				
Forms of instruction		Vorlesung (33%), Übung (67%)				
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture	20				
	Seminar					
	Practical training exercises	40	30			
	Study trip					
	Homework					
	60	30	60	30	180 / 6 CP	
Module examination	Form(s) of assessment	a) Seminar work and oral presentation or b) other examinations conducted by the teaching staff (see SpezO § 8).				
	Components of final grade	a) Seminar work (70 %), oral presentation (30 %) or b) conducted by the teaching staff (see SpezO § 8)				
	Form of module component retake examination					
	Form of module retake examination	Failed individual projects will be re-examined after 4 weeks or repeat/revision of the examination as described in b).				
Frequency	SoSe		Duration 1 Semester			
Intake capacity	30					
Language of instruction	English					
Website	www.uni-giessen.de/cms/fbz/fb09/institute/ilr/wasser					

MP B 169 - Humanitarian Disasters and its impact on Transition Management				1.-4. Sem.; 2./4. Sem.;	6 CP	
English Module Title		Humanitarian Disasters and its impact on Transition Management				
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Dekanat / Studiendekanat				
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (2./4.)				
Module coordinator		Studiendekan				
Prerequisites for participation		None				
Course aims		<p>The students</p> <ul style="list-style-type: none"> • have acquired knowledge about disaster risk reduction, resilience building, humanitarian disasters and the cycle of disaster management; • comprehend the impact of disasters on Food Security, Agriculture, Water and Sanitation and any other relevant sectors; • are able to understand sectoral policy and practice; • gain detailed information about rights based approaches and accountability mechanisms; • have specific knowledge on gender and other mainstreaming themes; • get insight into monitoring and evaluation and design M & E Tools; • are able to design transition / phase over Strategies. 				
Module content		<ul style="list-style-type: none"> • Definition, concepts and root causes of Disasters, politics of disasters • Tools for Political, Environmental, Social and Technological analysis • Tools for Data collection and Baseline study • Sectoral linkages and effectiveness • Policy analysis • Rights Based Approaches and Accountability Mechanisms • Gender and Mainstreaming themes • Project /Program cycle with strong emphasis on Monitoring and Evaluation • Transition modalities and strategy 				
Forms of instruction		Vorlesung (50%), Seminar (30%), Praktikum (7%), Exkursion (13%)				
Total workload in hours			180 hours			
			Consisting of: A courses in total		B autonomous work in the module	C module examination
		a contact hours	b preparation/follow-up work			Total
	Lecture	30	30			
	Seminar	18	20			
	Practical training exercises	4	10			
	Study trip	8				
	Homework					
	60	60	30	30	180 / 6 CP	
Module examination	Form(s) of assessment		written exercises (5) and presentation with written assignment			
	Components of final grade		written exercises (30 %), presentation with written assignment (70 %)			
	Form of module component retake examination					
	Form of module retake examination		Written exercises and revision of the written assignment within 4 weeks			
Frequency		SoSe		Duration 1 Semester		
Intake capacity		20				
Language of instruction		English				
Website		http://www.uni-giessen.de/fbz/fb09/institute/iam/aeup				

MP B 170 - Capacity Development – Organisational and Institutional Strengthening				1./3. Sem.;	6 CP
English Module Title		Capacity Development – Organisational and Institutional Strengthening			
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Dekanat / Studiendekanat			
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (1./3.)			
Module coordinator		Studiendekan			
Prerequisites for participation		None			
Course aims		<p>The students</p> <ul style="list-style-type: none"> • understand and learn definitions and methodologies of Capacity Development; • have profound knowledge and understanding about State and Non- State Actors; • conduct stakeholder and Actors Profiling; • acquire knowledge about the relevance of Capacity building for state and Non-state actors; • are able to execute various tools; • are able to design and develop a Capacity building strategy and operational plan; • are able to develop result based monitoring framework and plans; • understand the politics and challenges associated with Capacity building work; • are able to analyse Capacity building policy. 			
Module content		<ul style="list-style-type: none"> • Detailed and various definitions and methodologies about Capacity development; • Theory about role of State and engagement of Non-State actors; • Tools for Stakeholders and Actors profiling; • Tools for capacity assessment for Organisations and Institutions; • Strategic and operational planning tools; • Logical framework analysis, Monitoring and Evaluation tools and framework • Capacity building policy of a country in transition 			
Forms of instruction		Vorlesung (50%), Seminar (30%), Praktikum (7%), Exkursion (13%)			
Total workload in hours	180 hours				
	Consisting of: A courses in total		B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total
	Lecture	30	30		
	Seminar	18	20		
	Practical training exercises	4	10		
	Study trip	8			
	Homework	60	60	30	30
Module examination	Form(s) of assessment	written exercise (5) and presentation with written assignment			
	Components of final grade	written exercise (30 %), presentation with written assignment (70 %)			
	Form of module component retake examination				
	Form of module retake examination	Written exercises and revision of the written assignment within 4 weeks			
Frequency	WiSe		Duration 1 Semester		
Intake capacity	20				
Language of instruction	English				
Website	http://www.uni-giessen.de/fbz/fb09/institute/iam/aeup				

MP B 181 - Gender and Development				1.-4. Sem.; 2./4. Sem.;	6 CP	
English Module Title		Gender and Development				
Faculty / chair / department		Agrarwissenschaften, Ökotrophologie und Umweltmanagement / Dekanat / Studiendekanat				
Applies to degree courses/semesters		Profil, Master (1.-4.)Profil Transition Management, Master (2./4.)				
Module coordinator		Studiendekan				
Prerequisites for participation		None				
Course aims		<p>The students</p> <ul style="list-style-type: none"> • have profound knowledge of the covered subject areas • are able to identify, organize and analyze specialist literature about the topic/research question and can summarize and present the current state of research • are capable to prepare a selected topic independently, can write a paper about it and are able to present it • are able to take part in scientific discussions on the subject • are able to critically evaluate special research issues and take a substantiated position 				
Module content		<ul style="list-style-type: none"> • Main definitions: Gender, (sustainable) development, diversity, intersectionality, human rights based approach, Gender Justice, Empowerment • Historical development of discourse (WID, GAD, Gender mainstreaming, MDG, SDG) • Personal experiences (considering the life cycle), Gender competence • Understanding gender dynamics: The power of Analysis • Gender analysis frameworks • Participatory approaches as a means to reflection and empowerment • Care economy, featuring time as a resource (UNRISD) • Heterodox feminist economics: Economic literacy and the 5 sector model by Louise Gubitzer as an analytical tool of the economy • Developing strategies, plans and monitoring systems to enhance gender justice at different levels (Global (UN), National, At local level) • Civil Society, Empowerment Movements, led by diverse women and men, • Identification of topics to be covered in the reader 				
Forms of instruction		Seminar (100%)				
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture					
	Seminar	60	60			
	Practical training exercises					
	Study trip					
	Homework					
	60	60	30	30	180 / 6 CP	
Module examination	Form(s) of assessment	Study paper or presentation and seminar paper				
	Components of final grade	Study paper (100 %) or presentation (40 - 60 %) and seminar paper (40 - 60 %)				
	Form of module component retake examination					
	Form of module retake examination	Revision of the seminar paper within 4 weeks				
Frequency	SoSe		Duration 1 Semester			
Intake capacity	30					
Language of instruction	German or english					

02-VWL: MA-St-01 Econometrics

(MUG: http://www.uni-giessen.de/cms/mug/7/findex36.html/7_36_02_2_BuV)

02-VWL: MA-V3-01 Theory of international Trade

(MUG: http://www.uni-giessen.de/cms/mug/7/findex36.html/7_36_02_2_BuV)

ZEU-TM-MSc-P1 Sovereignty and Its Discontents		SS	6 CP		
Title of module	Sovereignty and Its Discontents				
Code of module					
Faculty / study program / institution	Faculty of political science/ department of politics				
used in StG / Sem.	Profil Transition Management, Master (2./4.)				
Person in Charge	Prof. Dr. Regina Kreide,				
Prerequisites	None				
Course aimss	This class offers an overview of the discourse on sovereignty focusing both on classical European and American theories of sovereignty and on recent discussions about the crisis of the concept. In the first part of the course our major objective will be to separate the core idea of sovereignty from the early modern interpretation developed to reinforce the foundation of the absolutist state. We will then examine responses to the ambiguous legacy of the early modern paradigm and discuss various solutions to the problem raised by the claim to sovereignty. In each case we will focus on three main issues: 1) the form and the location of the sovereign authority, 2) the limits of sovereign authority, and 3) the relationship of sovereignty to constitutionalism.				
Content of module	<ul style="list-style-type: none"> – Classical Concepts of Sovereignty in Modern Political Thought – Sovereignty and Analytical Jurisprudence – Sovereignty and the Pure Theory of Law – Popular Sovereignty – Popular Sovereignty and Constitutional Dualism in the American Constitution – Sovereignty and the Politics of the Extraordinary – Critics of Sovereignty – Sovereignty and Constitutional Democracy – Sovereignty, Globalization and Cosmopolitan Democracy – Sovereignty and European Union – Beyond Sovereignty? 				
Class format	Seminar				
Workload	180 h		Credit-Points: 6 CP		
containing:	A Course		B self-study	C examination	total
	a Presence	b preparation/ postprocessing LN			
	Lecture				
	Seminar	30	90	30	
	total	30	90	30	180
Examination format	Students are required to attend the class regularly, do the assigned readings and participate in class discussions. Each student is expected to have a short class presentation on the assigned readings. For the successful completion of the course a term paper is required.				
Grade of module	Presentation (20%); term paper or oral exam or written exam (80%)				
Compensation	Each part of the exam				
Repetition	That part of the exam that has not been passed will be organized as oral exam (0,5 h). Grade of the presentation persists.				
Availability	SS, each year				
Duration	one Semester				
Acceptance capacity	None				
Language of instruction	English				

ZEU-TM-MSc-P2 European Integration in a Legal Perspective			SS	6 CP	
Title of module	European Integration in a Legal Perspective				
Code of module					
Faculty/ study program/ Institution	Faculty of Law/Chair of European Law and Transition Management				
Used in StG/ Sem.	All faculties/ Profilemodule of all Master programs / 1. Sem.				
Person in charge	Prof. Dr. Mahulena Hofmann				
Prerequisites	None				
Course aims	<p>Students will learn about:</p> <ul style="list-style-type: none"> – European Integration: Theory and Development – European Integration via Common Standard Setting: Council of Europe – European Integration and the Protection of National Minorities in Europe – European Integration and the Protection of Human Rights: European Convention on Human Rights – European Integration via Judicial Protection of Human Rights: the European Court of Human Rights – ECHR: Main Judgements and Decisions – European Integration via European Union: Theory and Development – Basis of Integration: the Lisbon Treaty – Motor of Integration: the Court of Justice and the European Union – Integration of Integration? Problems and Perspectives 				
Course content	<p>The lecture will be introduced by an analysis of the idea and history of European integration and its legal framework. The first part of the lecture will be devoted to this integration under the auspices of the Council of Europe with a focus on the European Convention on Human Rights, the European Court of Human Rights and its most significant decisions, as well as other treaties and mechanisms aimed at monitoring the implementation of human rights in Europe. The second part of the lecture will be concentrated on the integration of European States in the framework of the European Union with a particular emphasis on the Lisbon Treaty and the Charter of Fundamental Rights including the most important jurisprudence of the European Court of Justice, the enlargement of the European Union as well as on the process of accession of the European Union to the European Convention on Human Rights. The last part will deal with the legal framework of other European integration structures – e.g. the European Energy Charter, the OSCE and the CIS.</p>				
Class format					
Workload	180 h		Credit-Points: 6 CP		
containing	A Course		B self-study	C examination	total
	a Presence	b preparation/postprocessing, LN			
lecture	30	60			
practice					
total	30	60	50	10	180
Examination format	Written test				
Grading	Written test (100%)				
Repetition	Written test (h)				
Availability	SS, each year				
Duration (semester)	one semester				
Acceptance capacity	none				
Language of instruction	English				

ZEU-TM-MSc-P3 Policy Consultancy			SS	6 CP	
Title of module	Policy Consultancy				
Code of module					
Faculty/ study program/ Institution					
Used in StG/ Sem.	- All faculties/ Profilemodule of all Master programs / 1.-4. Sem.				
Person in charge	- Prof. Dr. Thilo Marauhn				
Prerequisites	- None				
Course aims	<p>Additional to the academic qualification students have to acquire more and more skills which they need in order to carry out socially relevant functions as top performers and executive managers in their home country and abroad. Specific competencies which exceed the isolated transfer of knowledge are necessary for the transfer of well-grounded knowledge and findings to relevant decision makers in policies, economics and society. That includes interpersonal skills like a convincing appearance, trained intercourse with relevant stakeholders and competencies in debating, counseling and communicating. The aim of the lecture is to sensitize the students to political activities and to the possibilities political players take influence in combination with the analysis of players and their range and possibilities of taking influence, as well as the functional logic of these occurrences. The knowledge of the governmental action will be integrated into different theoretical governance-approaches. Apart from the knowledge of different analytical models, the students are able to convey them on the political practice in a professional and methodical way. Additionally, the students get the possibility to be individually coached. Within this training the student can extend his/her rhetorical, social and personal skills.</p>				
Course content	<ul style="list-style-type: none"> - The lecture deepens the students' knowledge of the basic principles in national and international policies and policy consulting. The basics of policy consulting, of governance and communication will be analysed and discussed methodical and with regard to contents. - The lecture will be accompanied by teaching staff of the JLU, external referees and practitioners of the policy consulting practice (particularly of consulting-concerns). - The multidisciplinary of the module allows the students a wide-ranging transfer of knowledge about themes of the theoretical and practical research on governance, of the policy management and of public affairs. Additionally, these topics will be deepened in practices. - Secondary, the contents of the lecture will be deepened in a topic-oriented excursion to the "Gesellschaft für Internationale Zusammenarbeit" (GIZ) GmbH. The participants of the module will be confronted with a specific task of the political, social or economical practice which they have to solve in team work. Subsequent, they will present and represent the implementation concept. 				
Class format	Lecture, practice, excursion, project/ team work, individual coaching				
Workload	180		Credit-Points: 6 CP		
containing	A Course		B self-study	C examination	total
	a Presence	b preparation/postprocessing, LN			
	lecture	30	25		
	practice	30	25		
	total	60	50	40	30
Examination format	Written test, oral test, presentation				
Grading	Written test (40%), oral test (40%), presentation (20%)				
Repetition	--				
Availability	SS, each year				
Duration (semester)	one semester				
Acceptance capacity	20 Participants				
Language of instruction	English				

ZEU-TM-MSc-P4 Land Governance for Sustainable Land Use in Africa				1. Sem.;	6 CP	
Module description	Land Governance for Sustainable Land Use in Africa					
Faculty / chair / department	Agrarwissenschaften, Ökotropologie und Umweltmanagement / ZEU					
Applies to degree courses/semesters	Transition Management, Master (1.)					
Module coordinator	Prof. Dr. Thilo Marauhn					
Prerequisites for participation	None					
Course aims	<p>The students are able to</p> <ul style="list-style-type: none"> • identify and explain key issues with respect to land governance for sustainable land use in the context of African countries. • apply knowledge to multidisciplinary and practical problems on issues of access to land • apply knowledge to multidisciplinary and practical problems on issues of land management • identify and address challenges of land governance in the African context. 					
Module content	<ul style="list-style-type: none"> • Access to land: <ul style="list-style-type: none"> ○ Land rights: <ul style="list-style-type: none"> ▪ Important issues of access to land and land governance ▪ Access to land and land rights in the African context with the focus on stakeholders and implementation ○ Land markets ○ Land reform: <ul style="list-style-type: none"> ▪ Human rights perspectives on land reform (focusing on issues such as food security and women's rights) ▪ Protection of community rights in land reform (focusing on stakeholders generally) ▪ Land restitution as a form of land reform (focusing on implementation, impacts, role-players and institutions) ▪ Interplay between land reform and corporate social responsibility (focusing on implementation, impacts, role-players and institutions) • Land management: <ul style="list-style-type: none"> ○ Land Use <ul style="list-style-type: none"> ▪ Important issues of land use ▪ Various impacts of land use and important stakeholders ▪ Decision making and implementation with respect to the land use issues ○ Sustainable land management and its principles: Important issues, stakeholders, and implementation ○ Important issues of land administration, stakeholders, and implementation <p>Challenges of land governance (based on case studies)</p>					
Forms of instruction	Lecture (90%), Seminar (10%)					
Total workload in hours	180 hours					
	Consisting of: A courses in total			B autonomous work in the module	C module examination	
	a contact hours	b preparation/follow-up work			Total	
	Lecture	54				
	Seminar	6	30			
	Practical training					
	Exercises					
	Study trip					
Homework						
	60	30	60	30	180 / 6 CP	
Module examination	Form(s) of assessment	Presentation, Written exam				
	Components of final grade	Presentation (50 %), Written exam (50 %)				
	Form of module component retake examination					
	Form of module retake examination	Written exam				
Frequency	Blockseminar (WiSe and SoSe)		Duration 1 Semester			
Intake capacity	20					
Language of instruction	English					
Website						

ZEU-TM-MSc-P5 - Renewable Energy Transition				2./4. Sem.;	6 CP	
English Module Title		Renewable Energy Transition				
Faculty / chair / department		FB07 / Physik / II. Phys. Inst.				
Applies to degree courses/semesters		Transition Management, Master (2./4.)				
Module coordinator		Prof. Dr. Michael Düren				
Prerequisites for participation		none				
Course aims		<p>The students acquire</p> <ul style="list-style-type: none"> • basic physics knowledge about energy production, transport, storage and consumption using fossil, nuclear and renewable sources • understanding of the options and problems of various energy systems, including their impact on global climate and the global carbon and water cycles • in-depth knowledge of renewable energy systems and their elements • ability to identify and address challenges in the transition phase of energy systems that are related to socio-economic and cultural factors 				
Module content		<ul style="list-style-type: none"> • energy usage and conversion • fossil and nuclear power plants • climate change and acidification of oceans • potential of wind, solar, hydro and geothermal energies • energy transport and storage • interference of energy sectors for industrial, residential, thermal and mobility applications • socio-economic and cultural aspects and challenges related to energy scarcity and energy system transitions 				
Forms of instruction		Lecture (60%), Seminar (40%)				
Total workload in hours			180 hours			
			Consisting of: A courses in total	B autonomous work in the module	C module examination	
		a contact hours	b preparation/follow-up work			Total
	Lecture	36	30			
	Seminar	24	30			
	Practical training exercises					
	Study trip					
	Homework					
	60	60	30	30	180 / 6 CP	
Module examination	Form(s) of assessment	group work/presentation, written exam				
	Components of final grade	group work/presentation (50%), written exam (50%)				
	Form of module component retake examination					
	Form of module retake examination	oral exam				
Frequency	SuSe		Duration 1 semester			
Intake capacity	30					
Language of instruction	English					